TWSE: 2448

### **EPISTAR**

### **Epistar Corporation**

### 2019 Annual Report

Taiwan Stock Exchange Market Observation Post System: http://mops.twse.com.tw Epistar Annual Report is available at: http://www.epistar.com Printed on February 29, 2020

### **Notice to readers**

This English-version annual report is a summary translation of the Chinese version and is not an official document of the shareholders' meeting. If there is any discrepancy between the English and Chinese versions, the Chinese version shall prevail.

### 1. Spokesperson & Deputy Spokesperson

Spokesperson

Name: Rider Chang

Title: Vice President & CFO TEL: +886-3-567-8000 ext. 133203

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### 2. Headquarters, Branches, and Plant

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Fab H1

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### 3. Common Share Transfer Agent and Registrar

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ADD: 3F., No.236, Sec. 4, Xinyi Rd., Xinyi Dist.,

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### 5. Overseas Securities Exchange

Bourse de Luxembourg Stock Exchange

Website: http://www.bourse.lu

### 6. Corporate Website

Website: http://www.epistar.com

Deputy Spokesperson

Name: Robin Yu

Title: Director, Finance & Accounting Center

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### 4. Auditors

Auditors: Cheng Ya-Huei, Chin-Cheng Hsieh

Company: Pricewaterhouse Coopers, Taiwan

ADD: 27F., No.333, Sec. 1, Keelung Rd., Songshan

Dist., Taipei City 105, Taiwan, R.O.C.

Website: http://www.pwc.com.tw

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### 1. Letter to Shareholders

Dear Shareholders,

### I. Introduction

The past year was the rockiest year in two decades for the LED upstream industry. Epistar's 2019 consolidated revenues declined by 27% compared to 2018 resulting in a net loss after taxes of approximately NT\$3.94 billion. Everyone at Epistar refused to give in nevertheless and worked together to manage our cash flow. As a result, cash inflow from operating activities in 2019 reached NT\$2.51 billion.

### II. 2019 Business Report

### A. Implementation results of the Group's consolidated business plan

### 1. Net operating revenue

The net operating revenue was NT\$15,959,831 thousand in 2019, and the operating revenue was NT\$20,306,412 thousand in 2018.

### 2. Net operating profit and loss

The net operating loss in 2019 was NT\$3,691,553 thousand. The net loss in 2018 was NT\$678,843 thousand.

### 3. Loss-current period

Global LED supply and demand was unbalanced once more in 2019 due to a massive increase in production capacity by other LED companies. The situation was compounded by the US-China trade conflict as well as weaker-than-expected overall market demand, so market prices plummeted due to intense competition. New business units such as Mini LED and III-V semiconductor contract manufacturing were still in the promotion phase as well so losses were amplified by their relatively low utilization rate. To continue refining our R&D capability, accelerate innovation, as well as develop products and services that best meet the needs of the market, NT\$2 billion was invested in R&D in 2019. The disposal of idle equipment in 2019 and an increase in impairment of assets compared to 2018 resulted in a net loss of NT\$3,937,520 thousand after taxes.

### B. Capital Structure Analysis & Profitability Analysis

Iten	n (Consolidated Entities)	2019	2018
Capital Structure	Debts Ratio (%)	19.64	18.86
Analysis	Long-term Fund to Property, Plant, and Equipment (%)	251.42	239.01
	Return on Total Assets (%)	(6.23)	(0.49)
Profitability	Return on Equity (%)	(8.03)	(0.97)
Analysis	Net Margin (%)	(24.67)	(2.49)
	Basic Earnings Per Share (NT\$)	(3.48)	(0.42)

Our company's finances remain sound despite making a loss during 2019 as cash inflow from operating activities still reached NT\$2.51 billion.

### C. Research and Development

Epistar is continuing to invest in research and development due to the introduction of new products, upgrading of product specifications, R&D and business development for III-V semiconductor contract manufacturing, and the need for improved competitiveness. Other developments included the purchase of advanced production equipment, clean rooms, R&D equipment, and machine upgrades. Consolidated R&D expenses for 2019 approximated NT\$2 billion most of which were directed towards the development of new products and improving product cost-effectiveness. In addition to using super-fine pitch displays and special effects to demonstrate the outstanding performance of Mini LED technology and products, we also sought to overcome size constraints by attempting to build even larger super-fine pitch displays. Improvements in product yield and mass production quality were also pursued to deliver high uniformity and high contrast for customers using large-sized displays. Customer requirements for even larger displays can also be met.

No effort is spared by Epistar when it comes to securing patents. In addition to being presented with the 2019 Gao Gong Golden Globe Award, the Group also obtained 232 more patents, raising our total patent count to 4,281. Epistar has been recognized for our efforts in CSR fulfilment as well. We were not only presented with a CSR verification statement by British Standards Institution (BSI) but also received a gold award in category 1 of the 2019 TCSA Corporate Sustainability Report Awards.

The Company's future development strategy, effect of external competition, legal III. environment, overall business environment, and a summary of the 2020 business plan For 2020, though there is still a glut of production capacity and intense competition in the LED industry, with importance in energy-efficiency and environmental protection issues along with successes in miniaturization of high-luminous efficacy LED technology have led to an increasing number of new applications. There are still potential growth opportunities in the LED market. For example, demand is increasing from the application of Mini LED to super-fine pitch high-end displays and monitors. LED's penetration rate in automotive and other applications have continued to increase, and there is increased interest in LED plant lighting, as well as the use of infra-red (IR) LED in security surveillance and smart phone sensing, etc. Epistar's die shipments expect to top 689,238 million units in 2020. Due to the trend towards smart technology and high cost vs. performance ratios, continued investment in R&D to refine technologies and reduce costs will be needed in the future. Epistar will continue to release new products to improve our resource utilization, enhance the added value of our products and optimize our product combinations in a bid to secure more high-quality orders. It is hoped that the company will be back in the black again this year.

In addition to focusing on the development of product & technology and maximization of shareholders' interest, the Company also fulfills its corporate social responsibility actively, uses its best efforts to well found the corporate governance, and work with the upstream and downstream dealers in the supply chain closely to jointly upgrade the industry's social responsibility.

I wish everyone good health and prosperity.

Chairman Biing-Jye Lee

### 2. An Introduction to EPISTAR

2.1 Date of Incorporation: September 19, 1996.2.2 Company History

August 1996	Admitted to the Park by the Science Park Steering Commission of the National Science Council.
September 1996	Incorporated the Company and acquired the company license, with
	registered capital of NT\$320 million and paid-in capital of
March 1997	NT\$220 million.
June 1997	Rented the standard factory premises and stationed in the Park.  Completed renovation of the factory premises and installation of
Julie 1997	new equipment and commissioning of the existing systems.
July 1997	Passed the pre-operational check and began pilot production &
·	trial marketing.
October 1997	Increased capital by NT\$100 million to achieve the paid-in capital
	amounting to NT\$320 million.
November 1997	Launched product and officially began mass production.
March 1998	Added two units of standard factory premises.
September 1998	Increased capital by NT\$100 million to achieve the registered
Dagamhar 1000	capital of NT\$520 million, and paid-in capital of NT\$420 million.
December 1998	Increased capital by NT\$80 million to achieve the paid-in capital amounting to NT\$500 million.
February 1999	Passed UL ISO 9002 certification.
May 1999	Awarded the accreditation certificate by the Chinese Taipei
1114 1999	Electronic Components Certification Board and identified as one
	of IEQC qualified plants.
July 1999	Acquired the land of Hsinchu Science Park Phase-3 Development
	Project.
	Recapitalized earnings and capital surplus to achieve paid-in
	capital of NT\$615 million.
March 2000	Groundbreaking ceremony of the Phase-3 Development Project.
March 2000	Passed UL ISO 9001 certification.
June 2000	Increased capital by NT\$150 million to achieve the registered capital of NT\$1.2 billion, and paid-in capital of NT\$765 million.
March 2001	Acquired an occupation permit for the new factory built under
Water 2001	Phase-3 Development Project.
May 2001	Officially traded stock on TWSE.
October 2001	Awarded the Distinction Award in Technology Development of 9 <sup>th</sup>
	term.
October 2002	Increased capital in cash by NT\$115 million to achieve the
	registered capital of NT\$1.7 billion, and paid-in capital of
	NT\$998.575 million.
December 2002	Awarded the Innovative Product Award: High Intensity InGaN
1.1.2002	LED by Hsinchu Science Park Bureau.
July 2003	Recapitalized earnings, NT\$195.318 million Paid-in capital
October 2003	amounting to NT\$1.193893 billion.
OCIOUCI 2003	Merged Inforcomm Semiconductor Corporation Paid-in capital amounting to NT\$1.251366260 billion.
	amounting to 141 \( \pi 1.23 1300200 \) Offillon.

December 2003 Offered 1st overseas convertible corporate bonds amounting to US\$300 million. April 2004 Acquired the new Lixing 1st Rd. factory built under the Phase-3 Development Project. July 2004 Succeed to shares of Itcompound Semiconductor Corporation by offering new shares Paid-in capital amounting to NT\$1.284962650 billion. September 2004 Recapitalized earnings amounting to NT\$152.115920 million Paid-in capital amounting to NT\$1.437078570 billion. Recapitalized earnings amounting to NT\$255.561780 million August 2005 Paid-in capital amounting to NT\$1.69264350 billion. October 2005 Passed the motion for merger of the Company with United Epitaxy Company, Ltd. at the special shareholders' meeting. Merged United Epitaxy Company, Ltd. and set December 30, 2005 December 2005 as the record date for merger. Increased capital upon the merger & conversion of overseas January 2006 convertible bonds into common stock in Q4 of 2005, totaling NT\$1.609167270 billion to achieve the paid-in capital amounting to NT\$3.301807620 billion upon the capital increase. Conversion of overseas corporate bonds into common stock, July 2006 conversion of employee stock warrants, and recapitalization of earnings Paid-in capital amounting to NT\$3.607220630 billion. October 2006 Offered 1st domestic unsecured convertible corporate bonds in the amount of NT\$2 billion. November 2006 Passed the motion for merger of the Company with Epitech Technology Corporation and Highlink Technology Corporation at the special shareholders' meeting. March 2007 Merged Epitech Technology Corporation and Highlink Technology Corporation, and set March 1, 2007 as the record date for merger. Increased capital upon the merger by issuing new shares in the March 2007 amount of NT\$1.479727911 billion Increase capital to achieve the paid-in capital in the amount of NT\$5.099411390 billion. October 2007 Offered 3rd domestic unsecured convertible corporate bonds in the amount of NT\$1.96560 billion. Increased capital by NT\$600 million to achieve the paid-in capital November 2007 in the amount of NT\$6.139286320 billion. Recapitalized the earnings in the amount of NT\$124.048780 September 2008 million Paid-in capital amounting to NT\$6.330614550 billion. September 2009 Increased capital in cash by issuing the common stock totaling 135 million shares to participate in the offering of overseas depository receipt, and to achieve the paid-in capital in the amount of NT\$7.681183150 billion. November 2009 Awarded the Industrial Excellence Award 2009 by the Industrial Development Bureau. July 2010 Succeeded shares of HUGA Optotech Inc. by offering new shares Paid-in capital amounting to NT\$8.474636260 billion. January 2011 Offered 3rd overseas unsecured convertible corporate bonds amounting to US\$280 million. December 2012 Swap shares by issuing new shares to acquire 100% of shares of HUGA Optotech Inc. Paid-in capital amounting to NT\$9.176495760 billion.

August 2013 Offer 4<sup>th</sup> overseas convertible corporate bonds amounting to

US\$250 million.

December 2014 Swapped shares by issuing new shares to acquire 100% of shares

of Formosa Epitaxy Incorporation Paid-in capital amounting to

NT\$11.31787340 billion

February 2015 Purchased 97.29% of shares of TSMC Solid State Lighting Ltd. in

cash to acquire the factory premises, facilities and production lines

which meet LED production requirements, and introduce

diversified human resource and information management system

June 2015 Merged CHIP STAR Ltd. (formerly known as TSMC Solid State

Lighting Ltd.), and set June 29, 2015 as the record date for merger.

May 2016 Signed the syndicated loan agreement effective for three years for

NT\$4 billion and US\$20 million with 7 financial organizations

including Land Bank of Taiwan.

September 2016 Merged HUGA Optotech Inc. and Formosa Epitaxy

Incorporation, and set September 29, 2016 as the record date for

merger.

May 2018 Ranked in the top 5% companies of the 4<sup>th</sup> term "Corporate

Governance Evaluation" of TWSE.

October 2018 Established Unikorn Semiconductor Corporation, wholly owned

by the Company after the division on October 1, 2018, to launch into the semiconductor foundry market and provide integrated

foundry services.

June 2019 Upgraded the profundity of the Company's corporate governance,

the Board of Directors of 10<sup>th</sup> term increased the number of

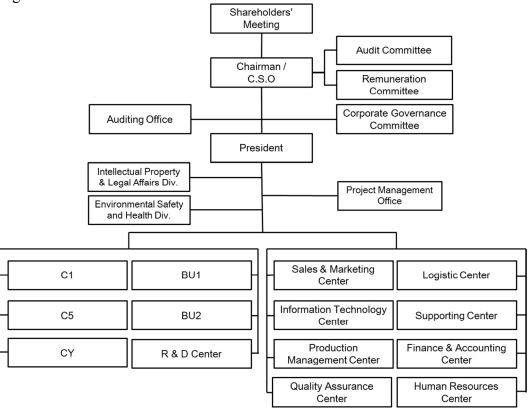
independent directors as 5 independent directors, a majority of the

whole director.

### 3. Corporate Governance Report

### 3.1 Organization

### 3.1.1 Organization Chart



### 3.1.2 Major Corporate Functions

Department	Functions
Chairman's Office	In supervision of various business targets, development roadmap, and the relevant matters of holding directors' meetings.
President's Office	Responsible for setting up company business strategies to achieve the annual business goals expected by the Board of Directors.
Corporate Governance Committee	To promote corporate governance and to effectively unleash the function of directors, to deepen the culture of corporate governance and corporate social responsibility, enhance the quality of information disclosure and strengthen compliance with relevant laws and regulations.
Audit Office	Responsible for the inspection of and response to the deficiencies in the internal control system, and provide suggestions for corrections and produce follow-up reports on a regular basis.
Project Management Office	Planning and execution of key projects, resources coordination, progress tracking, cost control, risk assessment, and customer management.

Department	Functions
Intellectual Property	Responsible for the application for and maintenance of
& Legal Affairs Div.	patents and intellectual property rights internally and the
	planning and implementation of relevant management system;
	carry out drafting, review of all contracts internally and
	externally, handle lawsuits, and provide legal consultation to
	all staff of the Company.
Sales & Marketing	Responsible for product sale and customer service, and
Center	preparation and documentation of specifications and product
	catalogue available to the public, documentation of
	information about new products for customers and peer
	companies, collection and analysis of market and application
	information, and assess the possibility of development.
Finance & Accounting	Responsible for accounting, taxation, fund procurement,
Center	credit control, budget control, preparation of financial
	statements, and management of fixed assets and shareholders'
	service.
Information	Responsible for systemization of various operational
Technology Center	processes, information security (IT) design and control,
	establishment of network communication system, computer
	hardware management, and maintenance.
Human Resources	Plan and execute suggestions and various functions about HR
Center	strategies, organizational development and care for
	employees, and responsible for enactment of ethical
	management policy and prevention programs, supervise
	execution, help the operations of Worker Welfare
	Commission, and act as the unit dedicated to boosting
	corporate social responsibility.
Production	Responsible for the production planning, scheduling and
Management Center	tracing, formulatioin and tracing of various production
	indicators, assessment and analysis of upgrading production
	and operational efficiency.
Quality Assurance	Setting up quality goals in accordance with the Company's
Center	quality policy to promote various quality system operations.
Supporting Center	Responsible for maintenance and management of the routine
	operation for rsvh factory's FAB service system; carry out the
	project plan for improvement and expansion of the plant for
	each factory's FAB service matters; plan and provide the
	promotion and management of each factory's administrative
	affairs.
Research &	Research new products and technologies, and the execution of
Development Center	new products and technology plans.
Logistics Center	Responsible for procurement of raw materials, spare parts,
	machinery and equipment, and factory engineering; contract
	awarding and invoicing, and procurement strategy planning,
	and management of ppurchase requisitions and warehousing;
	planning and implementation of imported/exported
	equipment, raw materials, spare parts, finished goods, and
	semi-finished goods; bonded business control.

Department	Functions
Environmental Safety	Responsible for the operation and maintenance of
and Health Div.	environmental protection (ISO 14001), safety, and health
	system (OHSAS 18001) to enhance the performance of
	environmental safety and health of all employees.
BU1	Responsible for establishment of the standard operating
	procedures for development and improvement, production
	and mass production of epitaxy wafer structure of various
	nitride products, upgrading of the output rate thereof, and
	upgrading of production, engineering and process technology
	of nitride chips, and quality control.
BU2	Responsible for establishment of the standard operating
	procedures for development and improvement, production
	and mass production of quaternary chips, upgrading of the
	output rate thereof, and upgrading of production, engineering
	and process technology of quaternary chips, and quality
	control.
C1	Responsible for planning and implementation of chips mass
	production.
C5	Responsible for planning and implementation of epitaxy
	wafer and chips mass production.
CY	Responsible for planning and implementation of epitaxy
	wafer and chips mass production.

3.2 Information about Directors, supervisors, president, vice presidents, assistant vice presidents, and department and branch managers 3.2.1 Information about directors and supervisors

2020	s or are ives ond	ati iip	ne	ne	ne	ne	ne	ne	ne	ne	ne
29,		a Relati onship	e None	None	e None	None	e None	e None	None	None	None
February	Managers, director supervisors who spouses or relat within the sec degree of kinship	Name	None	None	None	None	None	None	None	None	None
_	Manag supervi spouses within degree	Title	None	None	None	None	None	None	None	None	None
	Current Positions at EPISTAR and Other Companies		Note 1	Note 2	Note 3	Note 4	Note 5	None	Note 6	None	Note 7
	Experience & Education					President of Epistar Corporation M.A., Institute of Physics, National Central University	Professor of Department of Public Finance in National Taichung University of Science and Technology. PhD (Purdue U.) Accounting Purdue University		Executive vice president of China Development Venture Hewlett-Packard (HP) Business Marketing Manager Soochow University Department of Business Administration lecturer Master of Chengehi University Institute of Business Administration Bachelor of Chemical Engineering Department of Tsinghua University	Bachelor of Accounting, Soochow University	The Professor and Chairman of NCTU Electrophysics Ph.D. in Electrical Engineering, State University of New York, USA Master of Electrical Engineering, State University of New York, USA Bachelor of Electronic Physics, NCTU
	inor g		0.15%	0 0.00%	0 0.00%	0.01%	0 0.00%	0 0.00%	0 0.00%	0.00%	0 0.00%
	Spouse & Minor Shareholding Shareholding Shares %		1,582,596 0.15%	0	0	124,337 0.01%	0	0	0	0	0
	%		0.13%	0 0.00%	0 0.00%	0.02%	0 0.00%	0 0.00%	%00.00	%00.0	0 0.00%
	Current Shareholding Shares		1,464,495 0.13%	0	0	267,012 0.02%	0	0	0	0	0
	pe %			0.00%	0.00%	0.02%	%00.0	0.00%	%00.0	%00.0	0 0.00%
	Shareholding When Elected Shares		1,464,495 0.13%	0	0	267,012 0.02%	0	0	0	0	0
	Date First Elected		1996.09.09	2006.03.02	2006.03.02	2019.06.20	2013.06.14	2013.06.14	2014.06.19	2019.06.20	2019.06.20
	Term (Year)		8	ю	8	ж	3	3	3	3	ъ
I and the second	Date Elected		2019.06.20	2019.06.20	2019.06.20	2019.06.20	2019.06.20	2019.06.20	2019.06.20	2019.06.20	2019.06.20
	Gender		Male	Male	Male	Male	Male	Male	Male	Male	Male
	Name		Biing-Jye Lee	Chih-Yuan Chen	Nan Yang Wu	Chin-Yung Fan	Wei-Min Sheng	Feng-Shang Wu	Chi-Yen Liang	Yu-Te Houng	Wei-Kuo Chen
	Nationality or Place of Registration		R.O.C.	R.O.C.	R.O.C.	R.O.C.	R.O.C. V	R.O.C. F	R.O.C. 6	R.O.C.	R.O.C.
,	Title		Chairman	Director	Director	Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director

Remark 1: The current shareholding refers to the actual shareholding available on February 29, 2020.

Remark 2: Any relevant information where the chairperson of the board of directors and the general manager or person of an equivalent post (the highest level manager) of a company are the same person, spouses, or relatives within the first degree of kinship, an explanation shall be given of the reasonableness, necessity thereof, and the measures adopted in response thereto (such as increasing the number of ndependent director, with a majority of directors who do not serve concurrently as an employee or officer): Not applicable.

### Note:

Biing-Jve Lee:

The Chairman of Epistar JV Holding (BVI) Co., Ltd., the Chairman of Yenrich Technology Corporation, the Chairman of Unikorn Semiconductor Corporation, the Director of Epicrystal (Hong Kong) Co., Ltd., the Chairman of Country Lighting (BVI) Co., Ltd., the Director of Epicrystal Corporation (ChangZhou) Ltd., the Director of Kaistar Lighting (Xiamen) Co., Ltd., and the Director of FormoLight Technologies, Inc. Said companies are directly or indirectly invested in by Epistar.

## Chih-Yuan Chen:

Chairman of Sun Shilin Development Co., Ltd., the Vice Chairman of Taiwan Insurance Co., Ltd. (Public offering: 2863), the Vice Chairman of Taiwan Air Cargo Terminal Limited, the the Director of Yi-Xiang Enterprise Co., Ltd., the Director of Ravenel Ltd., the Director of Hanlin Incubation Co., Ltd., the Director of Ruihua Art Co., Ltd., the Director of Xin Su The Chairman of Yeong Yi Asia Corp., the Chairman of Yi-Yuan Enterprise Co., Ltd., the Chairman of Yi Te Optoelectronics Co., Ltd., the Chairman of Yi-Yang Technology Co., Ltd., the Director of China Airlines Ltd. (TWSE: 2610), the Director of Shihlin Paper Corporation (TWSE: 1903), the Director of Nan Ya Photonics Inc., the Director of Yi-Chao Enterprise Co., Ltd., Transportation Warehousing Co., Ltd., the Director of Shin Shi transportation co., Ltd., and the Supervisor of Taiquan Investment Co., Ltd.

## 3. Nan Yang Wu:

The Director of Edison Opto Corporation(TWSE: 3591), the Director of ProLight Opto Technology Corporation.(Emerging stock: 5277), the Director of Wafer works Corporation (TPEx: 6182), the Chairman of Fon Tain Belon Co., Ltd., the Chairman of Tai E Trading Co., Ltd., the Director of Yeong Yi Asia Corp., the Director of Yi-Yang Technology Co., Ltd. and the Director of Yi-Xiang Enterprise Co., Ltd., the Director of Xinan Transportation Co., Ltd., the Director of Gangdu Industrial Co., Ltd., the Director of Gan Force Corporation version and the Director of Gangdu Industrial Co., Ltd., the Directo of GaN Ventures Co., Limited, the Director of GV Semiconductor Inc., the Director of APT Electronics Co Ltd., and the Director of Advanced Photoelectronic Technology Limited.

## Chin-Yung Fan:

The Chairman of Lighting Investment Corp., The Director of Luxlite (Shenzhen) Corporation Limited, the Chairman of Lighting Investment Ltd., the Chairman of Luxlite (HK) Corporation Limited, the Director of HUGA Holding (Samoa) Limited, the Director of Crystaluxx SARL, the Director of LEDOLUX Sp. Zo. O., the Director of Jiangsu Canyang Optoelectronics Ltd., the Chairman of EPIRICH (Guangzhou) Co.Ltd., the Director of TE OPTO Corporation, the Director of Evertop (Fujian) optoelectronics Co., Ltd, the Director of Episky (Hong Kong) Ltd., the Director of Luxlite (HK) Corporation Limited, the Director of allureLux Corporation, the Director of Epistar (Hong Kong) Limited and the Director of Can Yang Investments Limited. Said companies are directly or indirectly invested in by Epistar.

## Wei-Min Sheng:

The Independent Director of Episil-Precision Inc. (TWSE: 3016), The Independent Director and member of Remuneration Committee of Advanced Lithium Electrochemistry (KY) Co., Ltd. Emerging stock: 5227)., and the independent director of uPI Semiconductor Corp (publicly owned 6719).

### Chi-Yen Liang:

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The Director of Tainet Communication System Corp. (TPEx: 4905), the Director of Flexium Interconnect Inc.(TWSE: 6269), the Independent Director&the member of Remuneration Committee of Excellence MOS Corp. (Emerging stock: 5299), the member of Remuneration Committee of Sesoda Corporation (TWSE: 1708), the member of Remuneration Committee of Shinkong Textile Co., Ltd (TWSE: 1419), the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Stude Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Branch Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director of Taiwan Star Venture Capital Co., Ltd., the Director Other Capital Capit Management Co., Ltd., and the Supervisor of Bei Ke Zhi Xing Venture Capital Co., Ltd..

## 7. Wei-Kuo Chen:

The Director of Princeton Technology Corporation (TPEx: 6129).

# Major Shareholder of the institutional shareholder: None.

Major shareholders of the major shareholders that are juridical persons: None.

Directors' Professional Qualifications and Independence Analysis:

		Number of Other Taiwanese Public Companies Concurrently Serving as an Independent Director	11 12	11 12	=	-	· · · · · · · · · · · · · · · · · · ·	2	<pre></pre>	<pre></pre>
		9 10								
	7 8		>	> > > >	> > >	> > > >	> > > > >	> > > > > > > > > > > > >		
,	9		>	>>	> > >	> > > >	> > > >	> > > > > > > > > > > > > > > > > > >		
	2 &		>	> > > >	>>>	>>>>	>>>>	> > > >	<b>&gt;&gt;&gt;&gt;&gt;&gt;</b>	>>>>>>
				>	>>	>>	>>>	>>>>	>>>>>	>>>>>
	Have Work Experience in the Area of Commerce, Law, Finance, or Accounting, or Otherwise Necessary for the Business of the Company		>	> >	<b>&gt;</b> > >	<b>&gt; &gt; &gt;</b>	<b>&gt; &gt; &gt;</b>	<b>&gt; &gt; &gt;</b>	<b>&gt; &gt; &gt; &gt;</b>	<b>&gt;&gt;&gt;&gt;</b>
Logether with at Least Five Years Work Experience	A Judge, Public Prosecutor, Attorney, Certified Public Accountant, or Other Professional or Technical Specialists Who Has Passed a National Examination and Been Awarded a Certificate in a	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company	Profession Necessary for the Business of the Company
Together with at Least	An Instructor or Higher Position in a Department of Commerce, Law, Finance, Accounting, or Other Academic Department Related to the Business Needs of the Company in a Public or Private	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University	Junior College, College or University
	Criteria/Name		Biing-Jye Lee	Biing-Jye Lee Chih-Yuan Chen	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu Chin-Yung Fan	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu Chin-Yung Fan	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu Chin-Yung Fan Wei-Min Sheng Feng-Shang Wu	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu Chin-Yung Fan Wei-Min Sheng Feng-Shang Wu Chi-Yen Liang	Biing-Jye Lee Chih-Yuan Chen Nan Yang Wu Chin-Yung Fan Wei-Min Sheng Feng-Shang Wu Chi-Yen Liang

Note: Directors, during the two years before being elected and during the term of office, meet any of the following situations, please tick the appropriate corresponding

Not an employee of the company or any of its affiliates;

Not a director or supervisor of the company or any of its affiliates (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent). 1. 5

Not a natural-person shareholder who holds shares, together with those held by the person's spouse, minor children, or held by the person under others' names, in an aggregate amount of one percent or more of the total number of issued shares of the company or ranks as one of its top ten shareholders;  $\tilde{\omega}$ 

Not a spouse, relative within the second degree of kinship, or lineal relative within the third degree of kinship, of a managerial officer under (1) or any of the persons listed in (2) and (3). 4.

- ranks among the top five in shareholdings, or that designates its representative to serve as a director or supervisor of the company under Article 27, paragraph 1 or 2 of the Company Act (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as Not a director, supervisor, or employee of a corporate shareholder that directly holds five percent or more of the total number of issued shares of the company, or that such at, a public company and its parent or subsidiary or a subsidiary of the same parent) Ś
- are controlled by the same person (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and Not a director, supervisor, or employee of another company or institution if a majority of the company's director seats or voting shares and those of any other company concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent). 6.
- accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a Not a director, supervisor, or employee of another company or institution where the chairperson, general manager, or person holding an equivalent position of the company and a person in any of those positions at the other company or institution are the same person or are spouses (excluding independent directors appointed in subsidiary of the same parent). 7
- Not a director, supervisor, officer, or shareholder holding five percent or more of the shares, of a specified company or institution that has a financial or business relationship with the company. (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent, where the specified company or institution holds 20 percent or more and no more than 50 percent of the total number of issued shares of the public company). ∞:
  - affiliate of the company for which the provider in the past 2 years has received cumulative compensation exceeding NT\$500,000, or a spouse thereof; this restriction Not a professional individual who, or an owner, partner, director, supervisor, or officer of a sole proprietorship, partnership, company, or institution that, provides auditing services to the company or any affiliate of the company, or that provides commercial, legal, financial, accounting or related services to the company or any does not apply to a member of the remuneration committee, public tender offer review committee, or special committee for merger/consolidation and acquisition, who exercises powers pursuant to the Securities and Exchange Act or to the Business Mergers and Acquisitions Act or related laws or regulations. 6
    - Not having a marital relationship, or a relative within the second degree of kinship to any other director of the company; 10. 11.
      - Not been a person of any conditions defined in Article 30 of the Company Act;
- Not a governmental, juridical person or its representative as defined in Article 27 of the Company Act.

Board diversity policy (directive) and status of implementation thereof

The Company's Board of Directors of  $10^{th}$  term consists of 9 directors, including 5 independent directors. There are no directors who are spouses or relatives within the second degree of kinship with each other.

- 1. The board members are all nationals of the R.O.C.
- 2. The directors who are also employees of the Company account for 22%, independent directors 56%, and female directors 0%.
- 3. The continuous term for the five independent directors is no more than 3 terms.
- 4. Three directors are 51~60 years old, five directors are 61~70 years old, and one director is 71~80 years old.
- 5. Mr. Biing-Jye Lee and Mr. Chin-Yung Fan serve as the CSO and President of the Company. Notwithstanding, none of the other directors hold any position in the Company concurrently. Therefore, the requirement those directors who hold the postion as manager of the Company shall be no more than one-third of the whole directors are satisified.
- 6. The Company adheres to the relevant laws and regulations in determining and assessing the independence of independent directors. The 10th Board of Directors increased the number of independent directors to 5 giving independent directors a majority on the Board. The newly added independent director Yu-Te Houng has more than 29 years of experience in accounting and finance at accounting firms and transnational enterprises, with extensive experience in transnational mergers and acquisitions; independent director Wei-Kuo Chen is currently a professor of physics at National Chiao Tung University whose research specialties include semiconductor physics and optoelectronic science.
- 7. It is in the company's interests to have directors that serve for longer terms as they develop the ability to provide more in-depth insights of their own on the company's operations and finances. Continuing education for the directors is also organized by the Company every year. The contribution of individual directors are also assessed on an ongoing basis to ensure that the Board of Directors can maintain a fresh perspective.
  - (1) Chairman Biing-Jye Lee has a background in chemical engineering and optoelectronics with the Industrial Technology Research Institute (ITRI). He founded Epistar with investments from the ITRI and the industry to focus on epitaxy research, development and mass production (e.g. laser diodes), as well as the commercialization of patented technologies. He served as the company president when Epistar was founded and has been the company chairman since June 20, 2007, with the Board's support. Lee is currently the 2nd Chair of Taiwan Optoelectronic Semiconductor Industry Association (TOSIA) and satisfies the criteria set out in Article 20 of Epistar's Corporate Governance Best Practice Principles as listed in the table below.

- (2) Director Chih-Yuan Chen is the chairman of Yi-Far Holding System, whose main business is risk management and venture capital investment in the high-tech sector. His experience includes the packaging, semiconductor, and LED industries. He was the chairman of UTAC Holdings Ltd. (Singapore) in 2000 and oversaw the company's public listing in Singapore in 2004. His acquisition of UTAC-Taiwan in 2005, was the first time that a Taiwanese invested in a public company in Singapore before turning around acquiring a Taiwanese company. He also oversaw the merger of Epistar and United Epitaxy Company in the same year. In addition to his role with the Wan Hai Group, he is also a director of China Airlines, the vice chairman of Taian Insurance, the vice chairman of Taiwan Air Cargo Terminal Ltd., and CEO of Chen-Yung Foundation.
- (3) Director Nan Yang Wu studied engineering at Stanford University and has sat on the Epistar board since 2005. Previous positions included director of Wafer Works Corp. (TPEx: 6129) and independent director of Nan Liu Enterprise Co., Ltd. His industry experience covers production and contract manufacturing of LED, semiconductors and melt-blown non-woven fabric. He is currently the senior vice president of Yi-Far Holding System (TWSE: 6504) and his professional skills include commerce, finance, investment and risk management.
- (4) Independent Director Wei-Min Sheng holds a Ph.D. in Accounting from Purdue University and is currently a professor with the Department of Public Finance & Taxation at the National Taichung University of Science and Technology. His industry experience includes the semiconductor, electronic component and electronics industries. Previous positions included independent director and remuneration committee member at Siliconware Precision Industries Co., Ltd. (SPIL), and was involved with that company's share-swap with Advanced Semiconductor Engineering, Inc.
- (5) Independent Director Feng-Shang Wu holds a Ph.D. in Business from Renesselaer Polytechnic University (RPI), USA. He is currently a professor at the Graduate Institute of Technology, Innovation and Intellectual Property Management, National Chengchi University. Previous positions include independent director and remuneration committee member of ProLight Opto Technology Corporation (Emerging stock: 5227). His professional expertise includes experience with the packaging & testing industry, risk management, information technology, and intellectual property.
- (6) Independent Director Chi-Yen Liang comes from a business administration and engineering background. He was previously the Chairman of Tainet communication System Corp (TPEx: 4905). and has experience in the network communications, electronic components and semiconductor industries. He was also a university lecturer.

8. All of the Board members possess the knowledge, skills, industry experience, and abundant experience and expertise in finance, commerce and management required to perform their jobs, please refer to Page 10~13 herein. All of the independent directors may exercise their powers objectively and satisfy the conditions about independence and qualifications required by law:

Title	condition Name	male/female	1	2	3	4	5	6	7	8
Chairman	Biing-Jye Lee	male	✓	✓	✓	✓	✓	✓	✓	✓
Director	Chih-Yuan Chen	male	✓	✓	✓	✓	✓	✓	✓	✓
Director	Nan Yang Wu	male	✓	✓			✓	✓		
Director	Chin-Yung Fan	male	✓	✓	✓	✓	✓	✓	✓	✓
Independent Director	Wei-Min Sheng	male	✓	✓	✓	✓	✓		✓	
Independent Director	Feng-Shang Wu	male	✓		✓		✓	✓		✓
Independent Director	Chi-Yen Liang	male	✓	✓	✓	✓	✓	✓	✓	✓
Independent Director	Yu-Te Houng	male	✓	✓	✓	✓	✓	✓	✓	✓
Independent Director	Wei-Kuo Chen	male	✓		✓	✓	✓	✓	✓	✓

Note: If meeting any of the following situations, please tick the appropriate corresponding boxes:

- 1. Ability to make operational judgments.
- 2. Ability to perform accounting and financial analysis.
- 3. Ability to conduct management administration.
- 4. Ability to conduct crisis management.
- 5. Knowledge of the industry.
- 6. An international market perspective.
- 7. Ability to lead.
- 8. Ability to make policy decisions.

### Successor cultivation planning for key management

In the company's successor cultivation plan, in addition to the successor having to possess effective communication skills, abundant knowledge, industry technology, excellent job performance, and personal development potential, the work values of the successor should be the same as the company.

The company conducts paradigm shift evaluations for a supervisor whose position is above the center level of the company and to develop the company's elites and succession echelons with reference to the evaluation results. In addition to exerting their personal expertise during their work as well as rotating among different tasks, the company's succession echelons also participate in various business decision-making meetings to cultivate the ability of strategies formulation.

The training model for successors of high-level management is divided into management ability training, professional ability test, personal development plan, and job rotation, etc., and its contents include the area of Production Management, Marketing Management, Human Resource Management, Research & Development Management, and Financial Management. The Chairman and the CEO of the company coach successors from the high-level manager based on the results of the annual leadership and development assessment, at the same time, training classes from professional organizations and strategic planning seminars from the industry are leveraged to enable the succession echelons integrating their knowledge to cultivate decision-making capabilities. In addition, the succession team is appointed as the general manager and director of a subsidiary of the company to cultivate a comprehensive and cross-industry strategic view through the management experience from the subsidiary.

The president of Epistar is Mr. Chin-Yung Fan as of July 16, 2018. Mr. Chin-Yung Fan acted as the vice president of Operation and Marketing Center of Epistar, who has worked in Epistar for more than 2 decades and held the positions as supervisor of the Company's AlGaInP and Nitride business units, quality control and marketing business and, therefore, has held very abundant and complete work experience. He is one of the senior management trained by the Company permanently. On his managing the Company and leading the development of LED and long-wavelength laser epi and chip business, Mr. Chin-Yung Fan was appointed to Epistar's 10th Board of Directors with the support of shareholders when full board elections were carried out in 2019.

3.2.2 Information Regarding Management Team

Title	Nationality	Name	Gender	Gender Date Effective	Shareholdir	ding	Spouse & Minor Shareholding	Winor 1g	EPISTAR Shareholding by Nominee Arrangement	ling lee ent	Experience & Education	Other	Manage Spouse: Degrees	Managers who are Spouses or Within Two Degrees of Kinship	e n Two iip
					Shares	%	Shares	%	Shares	%			Title	Name R	Name Relationship
Chief Strategy officer	R.O.C.	Biing-Jye Lee	Male	2009.01.01	1,464,495	0.13%	1,582,596	0.15%	0	0.00%	Research fellow/supervisor, Institute of Photonics Technologies in Industrial Technology Research Institute (ITRI) Ph. D., Institute of Chemical Engineering, National Tsing Hua University	Note 1	None	None	None
President	R.O.C.	Chin-Yung Fan	Male	2018.07.16	267,012	0.02%	124,337	0.01%	0	0 0.00%	Special assistant, Vice President, Epistar Corporation M.A., Institute of Physics, National Central University	Note 2	None	None	None
Vice President	R.O.C.	Jen-Chau Wu	Male	2005.12.30	237,155	0.02%	0	0.00%	0	0.00%	Vice President, United Epitaxy Company, Ltd. M.A., Institute of Electrical Engineering, National Tsing Hua University	Note 3	None	None	None
Vice President	R.O.C.	Rong-Yih Hwang	Male	2007.03.01	130,000	0.01%	0	%00'0	0	%00'0	Associate Vice President, United Epitaxy Company, Ltd. M.A. Institute of Photonics Technologies, National Chiao Tung University	Note 4	None	None	None
Vice President	R.O.C.	Min-Hsun Hsieh	Male	2007.03.01	18,674	0.00%	0	0.00%	0 (	%00.0	Supervisor, Highlight Optoelectronics Inc. Ph. D., Institute of Power Mechanical Engineering, National Tsing Hua University	Note 5	None	None	None
Vice President	R.O.C.	Shih-Shien Chang	Male	2007.03.01	802,265	0.07%	0	0.00%	0	0.00%	Manager, Finance Department, Wei Chuan Foods Corporation B.A., Department of Business Administration, National Cheng Kung University	Note 6	None	None	None
Vice President	R.O.C.	Chen Ou	Male	2014.09.01	3,084	0.02%	86	0.00%	0 (	%00.0	Director, Epistar Corporation Ph. D., National Chiao Tung University	Note 7	None	None	None
Vice President	R.O.C.	Ming-Da Jin	Male	2014.09.01	200,000	0.02%	0	0.00%	0 (	%00.0	Director, Epistar Corporation M.A., Institute of Electrophysics, National Chiao Tung University	Note 8	None	None	None
Vice President	R.O.C.	Lin-Tien Yang	Male	2014.09.01	20,797	0.00%	0	0.00%	0	%00:0	Associate Vice President, Epitech Technology Corporation M.A., Institute of Management, National Chiao Tung University	Note 9	None	None	None
Vice President	R.O.C.	Wei-Shih	Male	2018.07.16	150,701	0.01%	0	0.00%	0	0 0.00%	Director, Information Technology Center, Epistar Corporation M.A. Institute of Electrical Engineering, University of Southern California (USC), USA	Note 10	None	None	None
Senior Director	R.O.C.	Li-Cheng Hung	Female	2012.01.01	0	0.00%	0	0.00%	0	0.00%	Director, Production Management Center, Epistar Corporation B.A., Department of Electrical and Electronics Engineering, Kun Shan College	Note 11	None	None	None

	d.		
Managers who are Spouses or Within Two Degrees of Kinship	Name Relationship	None	None
Managers who are Spouses or Within T Degrees of Kinship	Name	None	None
Manage Spouse Degree	Title	None None	None None
Other Position		None	None
Experience & Education		Special assistant to the President office, Epistar Corporation 0.00% Associate Vice President, Logistic center, Huga Optotech Inc./Formosa Epitaxy Incorporation Associate degree, Department of business management, China University of Technology	Manager, Department of management, Hui Sheng Industrial Corporation BA, Department of Engineering Science, National Cheng King University
AR olding inee ment	%	0.00%	%00°C
EPISTAR Shareholding by Nominee Arrangement	Shares	0	0
finor	%	0.00%	0.00%
Spouse & Minor Shareholding	Shares	213	0
ding	%	0.02%	0.00%
Shareholding	Shares	165,000	50,459
Gender Date Effective		2014.09.01	2016.11.24
Gender j		Male	Male
Name		Feng-Sheng Qiu	Yi-Chang Hong
Nationality		R.O.C.	R.O.C.
Title		Senior Director R.O.C. Feng-Sheng Qiu	Senior Director R.O.C. Yi-Chang Hong

The current shareholding refers to the actual shareholding available on February 29, 2020.

Where the chairperson of board of directors and the general manager, or person holding an equivalent position (the highest level manager) of a company are the same person, spouses, or relatives within the first degree of kinship, an explanation shall be given of the reason for, reasonableness, necessity thereof, and measures adopted in response thereto. Not applicable.

### Note:

. Biing-Jye Lee:

The Chairman of Epistar JV Holding (BVI) Co., Ltd., the Chairman of Yenrich Technology Corporation., the Chairman of Unikorn Semiconductor Corporation., the Chairman of GaN Ventures Co., Limited, the Chairman of GV Semiconductor Inc, the Chairman of Gan Force Corporation, the Chairman of Country Lighting (BVI) Co., Ltd., the Director of LiteStar JV Holding (BVI) Co., Ltd., the Director of Epicrystal (Hong Kong) Co., Ltd., the Director of Epicrystal Corporation (ChangZhou) Ltd., the Director of Nan Ya Photonics Inc., the Director of Kaistar Lighting (Xiamen) Co., Ltd., and the Director of FormoLight Technologies, Inc.. Said companies are directly or indirectly invested in by Epistar.

Chin-Yung Fan:

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The Chairman of Lighting Investment Corp., the Chairman of Lighting Investment Ltd., the Chairman of Luxlite (HK) Corporation Limited, the Chairman of Can Yang Investments Limited., the Director of Episky (Hong Kong) Ltd., the Director of Luxlite (Shenzhen) Corporation Limited, the Director of HUGA Holding (Samoa) Limited, the Director of Crystaluxx SARL, the Director of Epistar (Hong Kong) Limited, the Director of LEDOLUX Sp. Zo. O., the Director of Jiangsu Canyang Optoelectronics Ltd., the Director of allureLux Corporation, the Director of TE OPTO Corporation, and the Director of Evertop (Fujian) optoelectronics Co., Ltd. Said companies are directly or indirectly invested in by Epistar.

Jen-Chau Wu:

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The Chairman of Episky Corporation (Xiamen) Ltd., the Chairman of Epicrystal Corporation (ChangZhou) Ltd., the Chairman of United LED Corporation Hong Kong Limited, the Executive Director of United LED Shan Dong Corporation, the Chairman of Ningbo Formosa Epitaxy Incorporation, the Chairman of Jiangsu Canyang Optoelectronics Ltd., the Director of LiteStar JV Holding (BVI) Co., Ltd., the Director of Epicrystal (Hong Kong) companies are directly or indirectly invested in by Epistar.

4. Rong-Yih Hwang:

The Director of Episky Corporation (Xiamen) Ltd., the Director of Luxlite (HK) Corporation Limited., the Director of Luxlite (Shenzhen) Corporation Limited, and the Director of iReach Corporation. Said companies are directly or indirectly invested in by Epistar.

Min-Hsun Hsieh: S.

The Director of Lighting Investment Corp., the Director of Yenrich Technology Corporation, the Director of GaN Ventures Co., Limited Cooperation, and the Director of GV Semiconductor Inc. the Director of Gan Force Corporation, and the Director of Nan Ya Photonics Inc. Said companies are directly or indirectly invested in by Epistar.

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Shih-Shien Chang:
The Chairman of allureLux Corporation, the Director & President of Yenrich Technology Corporation, the Supervisor of Episky Corporation (Xiamen) Ltd., the Director of Luxlite (HK)
Corporation Limited., the Director of Luxlite (Shenzhen) Corporation Limited, the Director of LEDOLUX Sp. Zo. O., the Director of Yen-Rich Opto (Hong Kong) Limited, the Director of Full
Star Enterprises Limited, the Director of Ecoled Venture Co., Limited, the Director of iReach Corporation, the Director of Play Nitride Inc., the Director of Chi Lin Optoelectronics Co., Ltd, and Said companies are directly or indirectly invested in by Epistar.

Chen Ou: ۲. The Director of Can Yang Investments Limited, and the Director of Jiangsu Canyang Optoelectronics Ltd. Said companies are directly or indirectly invested in by Epistar.

Ming-Da Jin: ∞ The Director of Unikorn Semiconductor Corporation. Said companies are directly or indirectly invested in by Epistar.

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Lin-Tien Yang: The Director & President of Luxlite (Shenzhen) Corporation Limited, the Director & President of SH Optotech Co., Ltd., the Director of Epicrystal (Hong Kong) Co., Ltd., the Director of Luxlite (HK) Corporation Limited., the Director of Epicrystal Corporation (ChangZhou) Ltd., the Director of United LED Corporation Hong Kong Limited, the Director of Crystal Light Enterprises Group Limited, the Director of Can Yang Investments Limited, and the Director of Jiangsu Canyang Optoelectronics Ltd. Said companies are directly or indirectly invested in by Epistar.

Wei Shih: 10.

The Director & President of Unikorn Semiconductor Corporation. Said companies are directly or indirectly invested in by Epistar.

Li-Cheng Hung: The Chairman of EPISKY Corporation (Changzhou) Ltd. Said companies are directly or indirectly invested in by Epistar.

3.2.3 Remuneration Paid to Directors, General Manager and Vice President in the most recent year 3.2.3.1 Remuneration Paid to Directors

			D	irector R	Director Remuneration	ion			T	Total	Compe	Compensation Eamed by a Director Who is an Employee of Epistar or of Epistar's Consolidated Entities	Earned by a Director Who is an Emp or of Epistar's Consolidated Entities	Director ar's Cons	r Who is a	n Emplo Intities	ee of Ep	istar	Total Compensatio	1 satio	
Name	Ba Compe⊨ (A	Base pensation (A)	Severa and P	Severance Pay and Pensions (B)	Comp to Di	Compensation to Directors (C)	Allov (	Allowances (D)	Remur (A+B+1 a% of P after	Remuneration (A+B+C+D) as a% of Net Loss after tax	Base Compensation, Bonuses, and Allowances (E)	Base pensation, uses, and vances (E)	Severance Pay and Pensions (F)	ance und ons	Prof	Employees' its Sharing B (G)	ees' ig Bonus		n (A+B+C+D+ E+F+G) as a % of Net Loss after tax		Any remuneratio n outside of subsidiaries from
O TOP	From	From All	E C	From A.	H.C.	From All	Hrom	From All			T. On	From All		rom All	Fror Epist	u H	From / Consolid Entitie			В	re-investmen t businesses
	Ħ	, ,, _	Ħ	, ,, _		ated Entities	Epistar		Epistar		н	ated Entities	<u> </u>	Consoli lated Entities	Cash	Stock Fair Market		# C	Ħ	es si	company
Biing-Jye Lee	0	0				0 0	09	09	0.00	0.00	19,233	19,233	208	208	0	0	0	0	0.52	0.52	0
Chih-Yuan Chen	0	0				0 0	09	09	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Nan Yang Wu	0	0				0 0	09	85	00.0	0.00	0	0	0	0	0	0	0	0	0.00	0.00	Note 4
Chin-Yung Fan	0	0				0 0	32	09	0.00	0.00	0	0	247	247	0	0	0	0	0.32	0.32	0
Wei-Min Sheng	720	720				0 (	09	09	0.02	0.02	0	0	0	0	0	0	0	0	0.02	0.02	0
Feng-Shang Wu	720	720				0 (	09	09	0.02	0.02	0	0	0	0	0	0	0	0	0.02	0.02	0
Chi-Yen Liang	720	720				0 (	09	09	0.02	0.02	0	0	0	0	0	0	0	0	0.02	0.02	0
Yu-Te Houng (note 1)	382	382				0 (	32	32	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0.01	0
Wei-Kuo Chen (note 1)	382	382				0 (	32	32	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0.01	0
Everlight Electronics Co., Ltd.	0	0				0 (	28	28	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Rep: Huei-Chen Fu	0	0				0 0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
United Microelectronics Corp.	0	0				0	0	0	00.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Rep: Shan-Chieh Chien	0	0				0	28	28	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Fon Tain Belon Co., Ltd.	0	0				0 0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Former director Yi Te Optoelectronics (Note 2) Co., Ltd.	0	0				0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0.00	0.00	0
Ming-Jiunn Jou	0	0				0 0	28	28	0.00	0.00	4,173	6,498	8,534	8,572	0	0	0	0	0.33	0.40	0
	Name  ng-Jye Lee h-Yuan Chen 1 Yang Wu n-Yung Fan n-Yung Fan -Yung Chen -Yung Fan -Yung Fan -Yung Fan -Yung Fan -Yung Han -Yung Fan -Yun		Comper (A From (B From (D O) (	Compensation (A)  (A)  (A)  From Consolid F  Epistar ated Epistar ated 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	From Compensation   and Per (A)   (B)	From All   From All	Compensation   and Pensions   to Directors (A) (B) (C) (C) (C) (A) (B) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	From All   From All	Compensation   and Pensions   To Directors   Compensation   A	From Compensation and Pensions   COmpensation   Consolid From	Compensation   Comp	Compensation   and Pensions   To Directors   Compensation   All   From All   From Consolid From Co	Compensation   and Pensions   COmpensation   A   B	Compensation   Annual Pensions   Annual Pen	Compensation   Amount   Compensation   Amount   Compensation   C	Compensation   And Pensions   Compensation   Compensation   Compensation   Compensation   Compensation   Consolid From   Con	Compensation   And Pensions   Compensation   Compensation   Compensation   Compensation   Compensation   Consolid From   Con	Compensation   Appension   Appension   Application   App	Compansation   Application   Application	Companision and Pensions   From All From All From All Pensions   Fr	Computestation   Authorities   Computestation   Authorities   Computestation   Authorities   Computestation   Authorities   Au

Note 1: Newly appointed in June, 20 2019.

Note 2 : Resigned as director after the elections on June 20, 2019.

Note 3 : Resigned as director after the elections on June 20, 2019.

Note 3 : Resigned as director after the elections on June 20, 2019. Retirement benefits and separation payments were handled in accordance with the relevant laws and the Epistar "Regulations Governing the Resignation or Retirement of Appointed Managers and Directors That Are Also Employees"; resigned as director after the elections on June 20, 2019.

Note 4: During 2019, Epistar directors collected remuneration for providing their services (such as acting as consultants to employees that are not their subordinates) for all the companies listed in the financial statements. The only exception was Director Nan Yang Wu who served as the legal representative for the subsidiary ProLight Opto Technology Corporation and the director of Edison Opto Corporation, an Epistar re-investment. He received NT\$25,000 and NT\$42,000 respectively from the above companies for attending their Board meetings. No remuneration other than for his role as director or employee was received from any of the companies listed in the financial statement (that is, Epistar and its subsidiaries).

Note 5: Describe the policy, system, standard and structure of independent director's compensation, as well as how the amount of compensation paid relates to their duties, risks, and time spent: (Page 25)

A: Remuneration to directors in 2019 (including director's salary, duty allowance, severance pay, bonus and reward, et al.) B: The contributed amount.

C: Allocation of remuneration to directors approved by the board in 2019.

E: Received by directors who were also employees in 2019 (including those concurrently holding the position as president, vice president, manager and employee), including salary, duty allowance, severance pay, bonus, reward, D: Professional practice expenses related to directors in 2019 (including transportation allowance, special allowance, various allowances, and provision of domitory and car).

F: The contributed amount including any retirement benefits or separation payments made to Dr. Ming-Jiunn Jou in accordance with the law and the Epistar "Regulations Governing the Resignation or Retirement of Appointed Managers transportation allowance, special allowance, various allowances, and provision of dormitory and car, and salary stated according to IFRS 2 "Share-Based Payment."

G: Allocation of remuneration to employees approved by the board in 2019, and calculation of the remuneration to be allocated this year based on the actual allocation of remuneration last year. Net Profit: The net operating loss after tax, NT\$ 3,753,797 thousand, identified in the individual financial statement 2019. and Directors That Are Also Employees."

## Remuneration Paid to Directors

		Name o	Name of Directors	
Range of Remuneration	Total o	Total of (A∼D)	Total o	Total of (A~G)
)	From EPISTAR	From All Consolidated Entities	From EPISTAR	From All Consolidated Entities and Non-Consolidated Affiliates
	Biing-Jye Lee	Biing-Jye Lee	Chih-Yuan Chen	Chih-Yuan Chen
	Chih-Yuan Chen	Chih-Yuan Chen	Nan Yang Wu	Nan Yang Wu
	Nan Yang Wu	Nan Yang Wu	Wei-Min Sheng	Wei-Min Sheng
	Chin-Yung Fan	Chin-Yung Fan	Feng-Shang Wu	Feng-Shang Wu
	Wei-Min Sheng	Wei-Min Sheng	Chi-Yen Liang	Chi-Yen Liang
	Feng-Shang Wu	Feng-Shang Wu	Yu-Te Houng	Yu-Te Houng
666'666 \$LN ~0\$LN	Chi-Yen Liang	Chi-Yen Liang	Wei-Kuo Chen	Wei-Kuo Chen
	Yu-Te Houng	Yu-Te Houng	Everlight Electronics Co., Ltd	Everlight Electronics Co., Ltd
	Wei-Kuo Chen	Wei-Kuo Chen	Fon Tain Belon Co., Ltd.	Fon Tain Belon Co., Ltd.
	Everlight Electronics Co., Ltd	Everlight Electronics Co., Ltd	Yi Te Optoelectronics Co., Ltd.	Yi Te Optoelectronics Co., Ltd.
	Fon Tain Belon Co., Ltd.	Fon Tain Belon Co., Ltd.		
	Yi Te Optoelectronics Co., Ltd.	Yi Te Optoelectronics Co., Ltd.		
	Ming-Jiunn Jou	Ming-Jiunn Jou		
NT\$1,000,000 ~ NT\$1,999,999	None	None	None	None
NT\$2,000,000 ~ NT\$3,499,999	None	None	None	None
NT\$3,500,000 ~ NT\$4,999,999	None	None	None	None
NT\$5,000,000 ~ NT\$9,999,999	None	None	None	None
NT\$10,000,000 ~ NT\$14,999,999	None	None	Chin-Yung Fan, Ming-Jiunn Jou	Chin-Yung Fan
NT\$15,000,000 ~ NT\$29,999,999	None	None	Biing-Jye Lee	Biing-Jye Lee, Ming-Jiunn Jou
NT\$30,000,000~ NT\$49,999,999	None	None	None	None
NT\$50,000,000 ~ NT\$99,999,999	None	None	None	None
Over NT\$100,000,000	None	None	None	None
Total	13	13	13	13

3.2.3.3 Remuneration Paid to President and Vice Presidents (that is, individual compensation paid to the five highest-paid managerial officers) 3.2.3.2 Remuneration Paid to Supervisor: N/A.

												Ď	sc. 31, 2019	Dec. 31, 2019 Unit: NT\$ thousand
		°S	Salary (A)	Severanc Pensi	Severance Pay and Pensions (B)	Bonuses and Allowances (C)	d Allowances (C)	Eı	Employees' Profit Sharing Bonus (D)	it Sharing ] ()	Bonus	Total Compensation as a % of 2019 Net Profit (A+B+C+D)	oensation as Net Profit	Any remuneration outside of
Title	Name	<u> </u>	From All	Lecons	From All	Drown	From All	From I	From EPISTAR	From All Consolid	From All Consolidated Entities	T. C. S.	From All	subsidiaries from re-investment
		EPISTAR	Consolidated Entities	EPISTAR	Consolidated Entities	EPISTAR	Consolidated Entities	Cash (	Stock (Fair Market Value)	Cash	Stock (Fair Market Value)	EPISTAR	Consolidat ed Entities	Consolidat businesses or the ed Entities parent company
Strategy officer	Biing-Jye Lee	6,633	6,633	208	208	12,599	12,599	0	0	0	0	0.52	0.52	None
President	Chin-Yung Fan	4,654	4,654	247	247	7,025	7,025	0	0	0	0	0.32	0.32	None
Vice President	Ming-Da Jin	3,387	3,387	212	212	5,097	5,097	0	0	0	0	0.23	0.23	None
Vice President	Shih-Shien Chang	3,518	3,518	218	218	4,855	4,855	0	0	0	0	0.23	0.23	None
Vice President	Min-Hsun Hsieh	3,348	3,348	217	217	4,906	4,906	0	0	0	0	0.23	0.23	None
Vice President	Jen-Chau Wu													
Vice President	Rong-Yih Hwang													
Vice President	Chen Ou	15,413	17,456	829	829	16,881	16,881	0	0	0	0	0.88	0.94	None
Vice President	Lin-Tien Yang													
Vice President	Wei-Shih													

A: Salary, duty allowance and severance pay paid to presidents and vice presidents in 2019.

B: The contributed amount.

C: Received by in 2019 (including those concurrently holding the position as president, vice president), including bonus, reward, transportation allowance, special allowance, various allowances and provision of dormitory and car, and salary stated according to IFRS 2 "Share-Based Payment."

of dormitory and car, and salary stated according to IFRS 2 "Share-Based Payment."

D: Allocation of remuneration to employees approved by the board in 2019, and calculation of the remuneration to be allocated this year based on the actual allocation of remuneration last year. Net Loss: The net operating Profit after tax, NT\$3,753,797 thousand, identified in the individual financial statement 2019.

Remuneration Paid to President and Vice President

	Name of Dresident	Name of Precident and Vice Precident
Range of Remineration		
	From EPISTAR	From All Consolidated Entities and Non-Consolidated Affiliates
066'666 \$LN ~0\$LN	None	None
NT\$1,000,000 ~ NT\$1,999,999	None	None
NT\$2,000,000 ~ NT\$3,499,999	None	None
NT\$3,500,000 ~ NT\$4,999,999	None	None
000 000 03LM - 000 000 S3LM	Ming-Da Jin, Shih-Shien Chang, Min-Hsun Hsieh, Jen-Chau Wu,	Ming-Da Jin, Shih-Shien Chang, Min-Hsun Hsieh, Jen-Chau Wu, Ming-Da Jin, Shih-Shien Chang, Min-Hsun Hsieh, Jen-Chau Wu,
141.45,000,000 ~ 141.45,999,999	Rong-Yih Hwang, Chen Ou, Lin-Tien Yang, Wei-Shih	Rong-Yih Hwang, Chen Ou, Lin-Tien Yang, Wei-Shih
NT\$10,000,000 ~ NT\$14,999,999	Chin-Yung Fan	Chin-Yung Fan
NT\$15,000,000 ~ NT\$29,999,999	Biing-Jye Lee	Biing-Jye Lee
NT\$30,000,000~ NT\$49,999,999	None	None
NT\$50,000,000 ~ NT\$99,999,999	None	None
Over NT\$100,000,000	None	None
Total	10	10

3.2.3.4 Employees' Profit Sharing Bonus Paid to Management Team

)		)			Dec. 31, 2019 Unit:	Dec. 31, 2019 Unit: NT\$ thousand; Shares k
Title and Name						Total Employees'
Title		Name	Stock (Fair Market Value)	Cash	Total Employees' Profit Sharing Bonus	Profit Sharing Bonus Paid to Management Team as a % of Net Loss
Vice President		Ming-Da Jin				
Vice President		Lin-Tien Yang				
Vice President		Wei-Shih				
Senior Director		Li-Cheng Hung	0	0	0	0.00%
Senior Director		Feng-Sheng Qiu				
Senior Director		Yi-Chang Hong				
	\					

Note 1: Allocation of remuneration to employees approved by the board in 2019, and calculation of the remuneration to be allocated this year based on the actual allocation of remuneration last year. Note 2: Net Profit means the net operating Loss after tax, NT\$3,753,797 thousand, identified in the individual financial statement 2019.

3.2.4 Comparison of Remuneration for Directors, Supervisors, President, and Vice Presidents in the Most Recent Two Fiscal Years and Remuneration Policy for Directors, Supervisors, President, and Vice Presidents

### 1. Remuneration Paid to Directors

The motion for remuneration to directors was proposed by the Remuneration Commission and submitted to the Board of Directors for resolution. The remuneration to directors was allocated by the Board of Directors based on the percentage defined in the Articles of Incorporation (i.e. 2% of the earnings of the given year), and subject to approval by a majority of the directors present at a board of directors meeting attended by two-thirds of the whole directors, and was reported to the shareholders' meeting. The remuneration to the other directors refers to such fixed remuneration as transportation allowance and attendance fees, while no other floating remuneration was allocated.

In order to upgrade the profundity of the Company's corporate governance, the Company assigned the corporate governance unit, which will establish the regulations governing evaluation on performance of the Board of Directors and various functional committees this year, in order to conduct self-assessment or peer review on the Board of Directors, individual directors or functional committees each year and take the performance evaluation result into account when determining payable remuneration.

2. The policy, system, standard and structure of independent director's compensation, as well as how the amount of compensation paid relates to their duties, risks, and time spent

After taking into account of the fact that members of the Remuneration Committee must possess previous work or industry experience in the relevant fields, the necessary skills and experience in corporate governance, and have a good understanding of the Company in order to make a significant contribution through decision-making and the performance of their duties, the decision was made to re-appoint Independent Directors Wei-Min Sheng, Feng-Shang Wu and Chi-Yen Liang as members of Epistar's 4th Remuneration Committee on June 20, 2019.

Independent directors' compensation are determined by the Board of Directors based on recommendations made by the Remuneration Committee after the management team takes market pay rates in the industry and the company's current business performance into account. Members of the Remuneration Committee may not vote on their personal remuneration however and it must be submitted to the Board for discussion and approval.

The Board of Directors decided after taking the company's business performance into account that independent directors shall only be paid fixed compensation such as travel expenses and attendance fees in 2019. No other additional variable compensation was paid.

### 3. Remuneration Paid to President and Vice President

The motion for remuneration to presidents and vice presidents, including salary, bonus and employee remuneration, et al., was based on the need to ensure that fixed salaries must stay competitive in the market. Budgeting for salary adjustments took individual performance, department performance, management ability and the company's business performance in to account. The motion was handled in accordance with the Company's personnel regulations and proposed by Remuneration Committee and submitted to the Board of Directors for resolution. The remuneration to employees was allocated by the Board of Directors based on the percentage defined in the Articles of Incorporation (i.e. 10%~20% of the earnings of the given year, based on 15% for the time being.), and subject to approval by a majority of the directors present at a board of directors meeting attended by two-thirds of the whole directors, and was reported to the shareholders' meeting. The treasury stock transferred to employees in the year, if any, was allocated and transferred in accordance with the "Regulations Governing Repurchase and Transfer of Shares to Employees" passed by the Board of Directors. Notwithstanding, with respect to the part involving managers, it is necessary for the Remueration Committee to pose suggestions and have the suggestions discussed and authorized by the Board of Directors.

The "annual profit" means the current year pre-tax profit (excluding other benefits or losses, such as the put option right, the call option rights, the conversion rights, and the redeem of overseas convertible bonds) before the deduction of the staff remuneration and director remuneration.

TV4	included in the cor	nsolidated financial ctors, President and	by the Company and statements for the t d Vice Presidents of	wo most recent
Title	20	18	20	19
		From All		From All
	From EPISTAR	Consolidated	From EPISTAR	Consolidated
		Entities		Entities
Directors	(0.59)	(0.59)	(0.09)	(0.09)
President and Vice President	(19.85)	(20.45)	(2.41)	(2.46)

Note: (1) The net operating Loss after tax, NT\$456,146 thousand, identified in the individual financial statement 2018. (2) The net operating Loss after tax, NT\$3,753,797 thousand, identified in the individual financial statement 2019.

### 3.3 Implementation of Corporate Governance

### 3.3.1 Board of Directors Meeting Status

A total of 6 (A) meetings of the Board of Directors were held in 2019. The directors' attendance status is as follows.

Title	Name	Attendance in Person (B)	By Proxy	Attendance Rate (%) 【B/A】	Remarks
Chairman	Biing-Jye Lee	6	0	100.0%	
Director	Chih-Yuan Chen	2	2	50.0%	Renew as natural person on June 20, 2019
Director	Fon Tain Belon Co., Ltd. Rep: Chih-Yuan Chen	1	1	50.0%	Discharged on June 20, 2019
Director	Nan Yang Wu	4	0	100.0%	Renew as natural person on June 20, 2019
Director	Yi Te Optoelectronics Co., Ltd. Rep: Nan Yang Wu	2	0	100.0%	Discharged on June 20, 2019
Director	Chin-Yung Fan	4	0	100.0%	Charged on June 20, 2019
Independent director	Wei-Min Sheng	6	0	100.0%	
Independent director	Feng-Shang Wu	6	0	100.0%	
Independent director	Chi-Yen Liang	6	0	100.0%	
Independent director	Yu-Te Houng	4	0	100.0%	Charged on June 20, 2019
Independent director	Wei-Kuo Chen	4	0	100.0%	Charged on June 20, 2019
Director	Ming-Jiunn Jou	2	0	100.0%	Discharged on June 20, 2019
Director	Everlight Electronics Co., Ltd. Rep: Huei-Chen Fu	1	1	50.0%	Discharged on June 20, 2019
Director	United Microelectronics Corp. Rep: Shan-Chieh Chien	2	0	100.0%	Discharged on June 20, 2019

Note: [Total actual attendance rates/total attendance rates to be fulfilled] of all directors attained 92.6% in 2019.

### 2019 Independent Directors' Attendance Status:

V: In person ○: By proxy X: Absence

2019	March 14	May 6	June 20	August 8	November 14	December 12
Wei-Min Sheng	V	V	V	V	V	V
Feng-Shang Wu	V	V	V	V	V	V
Chi-Yen Liang	V	V	V	V	V	V
Yu-Te Houng	None	None	V	V	V	V
Wei-Kuo Chen	None	None	V	V	V	V

### Other special disclosure:

1. Where the Board of Directors' operation meets any of the following circumstances, please clearly state the directors' meeting date, term, contents of motions and resolution thereof, opinions of all independent directors and the Company's handling of said opinions:

(1) Securities and Exchange Act §14-3 resolutions:

) Securities and Exena	inge Act §14-3 resolutions:		ı	1
Term/st/nd/rd/th time Date	Contents of motion	Independent director's opinion	The Company's handling of independent director's opinion	Resolution
9-17 2019.03.14	Capital injection by issuance of 160 million shares of common stocks through private placement were terminated before the expiry date on 21 June 2018.	None.	N/A	Approved as proposed and reproposing on March 14, 2019.
9-17 2019.03.14	The issuance of new common shares for cash to sponsor issuance of the global depository receipt and/or issuance of new common shares for cash in private placement.	None.	N/A	The motion was approved, and submitted to the general shareholders' meeting for discussion on June 20, 2019 and had been terminated by the resolution of the Board of directors meeting on February 26 2020, due to lack of qualified strategic investor can be found before the expiry date on June 20 2019.
9-17 108.03.14	Amendments to "Procedures for Loaning Funds to Other Parties," "Procedures for Endorsements and Guarantees," and "Acquisition or Disposal Procedures of Asset" in part.	None.	N/A	It was approved and the shareholders' meeting passed the proposal on June 20, 2019.
9-17 2019.03.14	To release the 10 <sup>th</sup> new Directors Biing-Jye Lee, Chih-Yuan Chen, Nan Yang Wu and Chin-Yung Fan non-competition restrictions.	None.	N/A	In relation to the individual's interest conflicts, each of the directors temporarily left and avoided each other, and did not participate in the discussion and voting. The other directors had no objection to the approval and the shareholders' meeting passed the proposal on June 20, 2019.

		T	T	T
Term/st/nd/rd/th time Date	Contents of motion	Independent director's opinion	The Company's handling of independent director's opinion	Resolution
9-17 2019.03.14	Endorsement of Episky Corporation (Xiamen) Ltd.	None.	N/A	It was approved and as per the resolution was executed.
9-18 2019.05.06	Approved the total amount of the Company's fund which was lent to subsidiary Episky Corporation (Xiamen) shall not exceed RMB\$200 million in total (or the equivalent amount in USD)	None.	N/A	It was approved and as per the resolution was executed.
9-18 2019.05.06	Endorsement of Episky Corporation (Xiamen) Ltd., Jiangsu Canyang Optoelectronics Ltd., Unikorn Semiconductor Corporation, and Yenrich Technology Corporation.	None.	N/A	It was approved and as per the resolution was executed.
10-2 2019.08.08	Evaluate the independence, eligibility, and contents of service and remuneration 2019 about appointment of Ya-Huei, Cheng and Chih-Cheng, Hsieh, CPAs.	None.	N/A	As the case involved the CPA's conflict of interest, Ya-Huei, Cheng and Wilson Wang, the CPAs left the meeting temporarily to recuse themselves from the discussion. The motion was ultimately approved.
10-2 2019.08.08	Amendments to "Statement of Declaration on Internal Control" in part.	None.	N/A	It was approved and as per the resolution was executed.
10-2 2019.08.08	Endorsement of Episky Corporation (Xiamen) Ltd., Jiangsu Canyang Optoelectronics Ltd., Unikorn Semiconductor Corporation.	None.	N/A	It was approved and as per the resolution was executed.
10-2 2019.08.08	Approved the total amount of the Company's fund which was lent to subsidiary Episky Corporation (Xiamen) and Unikorn Semiconductor Corporation shall not exceed RMB\$100 million in total (or the equivalent amount in USD) and TWD \$300 million.	None.	N/A	It was approved and as per the resolution was executed.

(2) There were no other written or otherwise recorded resolutions on which an independent director had a dissenting opinion or qualified opinion in 2019.

### 2. Recusals of Directors due to conflicts of interests in 2019

Recusars of Director	s due to commets of micrests	5 III 2017	
Term/st/nd/rd/th time Date	Contents of motion	Persons recusing themselves	Status
9-17 2019.03.14	To release the 10 <sup>th</sup> new Directors Biing-Jye Lee, Chih-Yuan Chen, Nan Yang Wu and Chin-Yung Fan non-competition restrictions.	Four directors, Biing-Jye Lee, Chih-Yuan Chen, Nan Yang Wu and Chin-Yung Fan.	In relation to the individual's interest conflicts, each of the directors temporarily left and avoided each other, and did not participate in the discussion and voting. The other directors had no objection to the approval and the shareholders' meeting passed the proposal on June 20, 2019.
9-17 2019.03.14	Agree to release company officer from non-compete clause and to also serve concurrently as a managerial officer.	Chairman Biing-Jye Lee	Director Biing-Jye Lee, as the director and chairman of Unikorn Semiconductor Corp., which is not a fully-owned subsidiary of Epistar, temporarily recused himself from the discussion and voting. The resolution was passed unanimously by the rest of the directors.
10-2 2019.08.08	Agree to release company officer from non-compete clause and to also serve concurrently as a managerial officer.	Chairman Biing-Jye Lee	Director Biing-Jye Lee, as the director and chairman of Unikorn Seminconductor Corp., which is not a fully-owned subsidiary of Epistar, temporarily recused himself from the discussion and voting. The resolution was passed unanimously by the rest of the directors.
10-2 2019.08.08	Motion for remuneration to the Company's directors.	Recusal over conflict of interest by ordinary and independent directors.	Ordinary and independent directors recused themselves from the discussion and voting process for relevant motions; all motions were subsequently passed by all (independent) present.

3. Evaluation of Board performance: Not applicable at the present time.

### 4. Measures taken to strengthen the functionality of the Board:

Upgrade the profundity of the Company's corporate governance, the Board of Directors of 10<sup>th</sup> term increased the number of independent directors as 5 independent directors, a majority of the whole director. The Company has set up the Audit Committee and Remuneration Committee, each consisting of 5 independent directors and 3 independent directors. Both committees' chairpersons would report the committees' activities and actions to the Board of Directors periodically. The external auditors would be invited to attend all meetings called by the Board of Directors, and the Company would communicate with the external auditors about the audit on the quarterly financial reports or audit results and other requirements under the related laws and regulations to seek the external auditor's comments.

### 3.3.2 Audit Committee Meeting Status

A total of 5 (A) Audit Committee meetings were held in 2019. The independent directors' attendance status is as follows.

Title	Name	Attendance in Person (B)	By Proxy	Attendance Rate (%) [B/A]	Remarks
Independent Director	Wei-Min Sheng	5	0	100.0%	Chair
Independent Director	Feng-Shang Wu	5	0	100.0%	
Independent Director	Chi-Yen Liang	5	0	100.0%	
Independent Director	Yu-Te Houng	3	0	100.0%	Note
Independent Director	Wei-Kuo Chen	3	0	100.0%	Note

Note: Charged on June 20, 2019.

### Other special disclosure:

- 1. The motions subject to review by Audit Committee and 2019 missions primarily include the following:
  - (1) Audit on financial statements and accounting policy and procedure
  - (2) Effective implementation of internal control system and related policies and procedures
  - (3) Material assets or derivatives trading
  - (4) Significant lending and endorsement/guarantee
  - (5) Placement or offering of securities
  - (6) Matters involving directors' proviate interest
  - (7) Compliance with related laws and regulations, and control over the Company's existing or potential risks
  - (8) CPA's qualifications, independence, appointment, dismissal or remuneration
  - (9) Appointment and dismissal of financial, accounting, or internal audit officers
  - (10) Upgrade the profundity of the Company's corporate governance
- 2. Where the Audit Committee's operation meets any of the following circumstances, please clearly state the directors' meeting date, term, contents of motions, and resolution of the Audit Committee, and the Company's handling of the Audit Committee's opinions:

(1) Resolutions related to Securities and Exchange Act §14-5 and its implementation:

Term/st/nd/rd/	h	Resolution of	the Company's (the board of
time	Contents of motion	Audit	directors') handling of Audit
Date		Committee	Committee's opinion
2-18	Preparation of 2018 Financial	The motion	The motion was approved by all
2019.03.14	Report.	was approved	present directors unanimously,
		unanimously.	and submitted to the general
			shareholders' meeting for
			discussion on June 20, 2019.
2-18	Capital injection by issuance of	The motion	The motion was approved by all
2019.03.14	160 million shares of common	was approved	present directors unanimously,
	stocks through private	unanimously.	and submitted to the general
	placement were terminated		shareholders' meeting for
	before the expiry date on June		discussion on June 20, 2019.
	21, 2018.		
2-18	The issuance of new common	The motion	The motion was unanimously
2019.03.14	shares for cash to sponsor	was approved	agreed and executed by all
	issuance of the global	unanimously.	present directors.
	depository receipt and/or		
	issuance of new common		
	shares for cash in private		
	placement.		

Term/ st/nd/rd/th		Resolution of	the Company's (the board of
time	Contents of motion	Audit	directors') handling of Audit
Date	Contents of motion	Committee	Committee's opinion
2-18	Amendments to "Procedures	The motion	The motion was approved by all
2019.03.14	for Loaning Funds to Other	was approved	present directors unanimously,
2017.03.14	Parties," "Procedures for	unanimously.	and submitted to the general
	Endorsements and	unammousty.	shareholders' meeting for
	Guarantees,"and"Acquisition		discussion on June 20, 2019.
	or Disposal Procedures of		discussion on June 20, 2017.
	Asset" in part.		
2-18	To release the 10 <sup>th</sup> new	The motion	The motion was approved by all
2019.03.14	Directors Biing-Jye Lee,	was approved	present directors unanimously,
2017.03.11	Chih-Yuan Chen, Nan Yang	unanimously.	and submitted to the general
	Wu and Chin-Yung Fan	unummousty.	shareholders' meeting for
	non-competition restrictions.		discussion on June 20, 2019.
2-18	Endorsement of Episky	The motion	The motion was unanimously
2019.03.14	Corporation (Xiamen) Ltd.	was approved	agreed and executed by all
2017.03.17	Corporation (Manien) Da.	unanimously.	present directors.
2-19	Approved the total amount of	The motion	The motion was unanimously
2019.05.06	the Company's fund which was	was approved	agreed and executed by all
2017.03.00	lent to subsidiary Episky	unanimously.	present directors.
	Corporation (Xiamen) shall not		F
	exceed RMB\$200 million in		
	total (or the equivalent amount		
	in USD)		
2-19	Endorsement of Episky	The motion	The motion was unanimously
2019.05.06	Corporation (Xiamen) Ltd.,	was approved	agreed and executed by all
2019100100	Jiangsu Canyang	unanimously.	present directors.
	Optoelectronics Ltd., Unikorn	anamino asij.	prosent unesters.
	Semiconductor Corporation,		
	and Yenrich Technology		
	Corporation.		
3-2	Evaluate the independence,	The motion	The motion was unanimously
2019.08.08	eligibility, and contents of	was approved	agreed and executed by all
	service and remuneration 2019	unanimously.	present directors.
	about appointment of Ya-Huei		
	Cheng and Chih-Cheng. Hsieh,		
	CPAs.		
3-2	Amendments to "Statement of	The motion	The motion was unanimously
2019.08.08	Declaration on Internal	was approved	agreed and executed by all
	Control" in part.	unanimously.	present directors.
3-2	Endorsement of Episky	The motion	The motion was unanimously
2019.08.08	Corporation (Xiamen) Ltd.,	was approved	agreed and executed by all
	Jiangsu Canyang	unanimously.	present directors.
	Optoelectronics Ltd., Unikorn	_	
	Semiconductor Corporation.		
3-2	Approved the total amount of	The motion	The motion was unanimously
2019.08.08	the Company's fund which was	was approved	agreed and executed by all
	lent to subsidiary Episky	unanimously.	present directors.
	Corporation (Xiamen) and	_	
	Unikorn Semiconductor		
	Corporation shall not exceed		
	RMB\$100 million in total (or		
	the equivalent amount in USD)		
	and TWD \$300 million.		
3-2	Proposed distribution of	The motion	The motion was unanimously
2019.08.08	directors and employees'	was approved	agreed and executed by all
	remuneration for 2019.	unanimously.	present directors.
			. =

- (2) There were no other resolutions that were not approved by the Audit Committee but were approved by two thirds or more of all directors in 2019.
- 3. There were recusals of independent directors due to conflicts of interests in 2019: None.
- 4. Descriptions of the communications between the independent directors, the internal auditors, and the independent auditors in 2019:
  - (1) Mode of communication
    - A. The Company's internal audit officer would report the audit affairs to independent directors at the Audit Committee meeting periodically, and communicate with the committee members about the audit results and status of his follow-up report.
    - B. The Company's external auditor would report to independent directors on the result of review or audit on the financial statements of the Company and its domestic/foreign subsidiaries and status of audit on internal control at the Audit Committee's quarterly meeting.
  - (2) Summary of the communication between independent directors and internal audit officer The Company's independent directors had fair communication about status and result of the audit affairs. The communication in 2019 was outlined as following:

Date	Points of communication	Communication result
2019.03.14	1. Internal audit report of Q4 in 2018  2. "Statement of Dealerstian on Internal Control System" 2018	
	<ul> <li>2. "Statement of Declaration on Internal Control System" 2018</li> <li>3. Evaluation of adjustments relating to the introduction of IFRS16 to the internal control process</li> </ul>	None
2019.05.06	1. Internal audit report of Q1 in 2019	
	2. Amendments to the operating procedures governing	None
	transactions with related persons and group enterprises	
2019.08.08	1. Internal audit report of Q2 in 2019	
	2. Amendments to the internal controls for "Investment Cycle"	None
	and "Financing Cycle"	
2019.11.08	1. Internal audit report of Q3 in 2019	None
	2. Audit plan in 2020	none

(3) Summary of the communication between independent directors and the external auditor. The Company's independent directors had fair communication with the external auditor. The communication in 2019 was outlined as following:

Date	Points of communication	Communication result
2019.03.14	1. The report on the audit result of the Company's	The financial statements
	consolidated and individual financial statements and	have been passed by the
	audit on internal control in 2018.	Audit Committee,
	2. Overview of the new external auditor's report and	submitted to the Board
	notes to key audit matter (KAM).	of Directors for
	3. Communication with the corporate governance unit.	approval, and made
	4. CPA responds and explains the problems of the audit	public as scheduled and
	committee.	reported to the
	5. External auditor's independence.	competent authority.
2019.05.06	1. The report on the audit result of the Company's	The financial statements
	consolidated financial statements and audit on	have been passed by the
	internal control of Q1 in 2019.	Audit Committee,
	2. Overview of the new external auditor's report and	submitted to the Board
	notes to key audit matter (KAM).	of Directors for
	3. Communication with the corporate governance unit at	approval, and made
	the stage of completion.	public as scheduled and
	4. CPA responds and explains the problems of the audit	reported to the
	committee.	competent authority.
	5. External auditor's independence.	

Date	Points of communication	Communication result
2019.08.08	1. The report on the audit result of the Company's	The financial statements
	consolidated a financial statements and audit on	have been passed by the
	internal control of Q2 in 2019.	Audit Committee,
	2. Overview of the new external auditor's report and	submitted to the Board
	notes to key audit matter (KAM).	of Directors for
	3. Communication with the corporate governance unit.	approval, and made
	4. CPA responds and explains the problems of the audit	public as scheduled and
	committee.	reported to the
	5. External auditor's independence.	competent authority.
2019.11.08	1. The report on the audit result of the Company's	The financial statements
	consolidated a financial statements and audit on	have been passed by the
	internal control of Q3 in 2019.	Audit Committee,
	2. Overview of the new external auditor's report and	submitted to the Board
	notes to key audit matter (KAM).	of Directors for
	3. Communication with the corporate governance unit.	approval, and made
	4. CPA responds and explains the problems of the audit	public as scheduled and
	committee.	reported to the
	5. External auditor's independence.	competent authority.

3.3.3 Status of corporate governance, departures from the Corporate Governance Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures

T T T T T T T T T T T T T T T T T T T				
		Implementation Status	Departures from the Comorate	s from
			Governance Best-Practice	ance
Assessment Item	YES NO	(O Explanation	Principles for TWSE/TPEx	s for PEx
			Listed Companies and reasons for	npanies ns for
			such departures	rtures
1. Does the Company follow "Corporate Governance Best Practice Principles for TWSE/TPEx Listed Companies"	>	Please see the Relationship with Investor on the Company's official website or M.O.P.S.	ite or None	
to establish and disclose its corporate governance				
2. Shareholding Structure & Shareholders' Rights				
(1) Does Company have Internal Operation Procedures	>	The related operations would be handled by the Spokesperson pursuant to the	o the None	
for handling shareholders' suggestions, concerns,		relevant laws and important regulations.		
disputes and litigation matters. If yes, has these				
(2) Does Company possess a list of major shareholders	>	The professional shareholder service agent would be responsible for handling it.	ng it, None	
and beneficial owners of these major shareholders?		and controlling the information about shares held by insiders according to the		
		information about changes of insiders' equity on a monthly basis.		
(3) Has the Company built and executed a risk	>	The responsibilities between the Company and its affiliates were defined clearly	early None	
management system and "firewall" between the		and definitely. The investment projects were handled in accordance with	with	
Company and its affiliates?		acquisition or disposal procedures of assets, the internal control system and related	slated	
		taws and regulations to control the illustricial and operating illustriation from time. Meanwhile, the motion for lifting the non-competition restrictions on	unie s on	
		directors and managers was submitted to the shareholders' meeting and directors'	ctors'	
		meeting for resolution.		
(4) Has the Company built and executed a risk	>	The Company established the operating procedure for prevention of insider	sider None	
Company and its affiliates?		uading: The subjects referred to distribution of the identity of insider for less	r less	
		than 6 months, and persons who access the information from said persons.	sons.	
		Company personnel are required to exercise due diligence and act in good faith	faith	
		during the performance of their duties. Confidentiality agreements should be	d be	
		signed for major events. They must not divulge any material inside information to	on to	
		other parties or profit from non-public information. The Company also requires	luires	

			Implementation Status	Departures from
Assessment Item	VES N	O <sub>Z</sub>	Explanation	Governance Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
		е — п	employees to undergo education and training at various times (please refer to Page 120 herein). At the time of publication, the Company has received no complaints relating to the aforementioned matters and there were no incidents of insider trading in violation of Article 157 of the Securities and Exchange Act.	
3. Composition and Responsibilities of the Board of Directors (1) Has the Company established a diversification policy for the composition of its Board of Directors and has it been implemented accordingly?	>	S		None
(2) Other than the Remuneration Committee and the Audit Committee that are required by law, does the Company plan to set up other Board committees?		T 7 O F	The various functional committees' responsibilities were defined clearly and definitely, and the committees executed related motions pursuant to laws. The Company will establish other functional committees pursuant to laws, or if necessary.	Same as explanation.
(3) Has the Company established regulations governing board performance evaluation and the method of evaluation? Are performance evaluations conducted every year with the outcomes of the performance evaluation reported to the Board of Directors and used as a reference in deciding the remuneration of individual directors and their nomination for re-appointment?	,	-	e Company's corporate governance unit will propose a motion to the Board of rectors in order to establish the regulationis governing evaluation on reformance of the Board of Directors this year, so as to conduct self-assessment peer review and take the performance evaluation result into account when termining payable remuneration. Notwithstanding, before the regulations are ablished, the corporate governance unit shall assess and record the entire erations of the Board of Directors honestly, and measure the overall rformance of the Board of Directors in terms of the following six major sects, as the reference for formation of the Board members:  The directors' grasp of the Company's goals and missions.  The directors' degree of participation in the Company's operations.  The directors' management of internal relationships and communication.  The directors' professionalism and continuing professional education.  Internal control	Same as explanation.

Departures from	Best-Practice Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures	
Implementation Status	Explanation	Meanwhile, with respect to the Company's related annual policies, Remuneration Committee would periodically review the policies, systems, standards, and structures for performance evaluation and remuneration for directors and managerial officers. The employee performance evaluation system should be combined with corporate social responsibility policies. The remuneration to directors, presidents and insiders would be reviewed by the Committee periodically each year and submitted to the board of directors for discussion and resolution.  The motion for evaluation on the independence, eligibility, and contents of service and remuneration 2019 about appointment of Ya-Huei Cheng and Chih-Cheng Hsieh, CPAs conducted by the Company once a year was approved upon resolution of the Audit Committee and board of directors on August 8, 2019.  The evaluation procedure for independence and eligibility is summarized as following:  1. The CPA has no direct or indirect financial interest relationship with the Company.  2. The CPA has no financing or guarantee relationship with the Company.  3. The CPA and its audit team members do not hold, or didn't hold in the most recent two years, the position as director or managerial officer of the Company or any position that has significant influence on the audit.  5. The CPA doesn't provide any non-auditing services that might affect the audit directly.  6. The CPA doesn't act as a broker of the stock or other securities issued by the Company.  7. The CPA doesn't act as the Company's advocate, or settle the dispute between the Company and a third narty on behalf of the Commany.
	SE NO	
	YES	<b>,</b>
	Assessment Item	(4) Does the Company regularly evaluate its external auditors' independence?

		Implementation Status	Departures from
			Governance Best-Practice
Assessment Item	YES NO	Explanation	Principles for TWSE/TPEx Listed Companies
			and reasons for such departures
4. If a TWSE/TPEx listed company, is there an adequate number of corporate governance personnel, and a chief corporate governance officer appointed in charge of corporate governance affairs (including but not limited to furnishing information required for business execution by directors and supervisors, assisting directors and supervisors with legal compliance, handling matters relating to board meetings and shareholders meetings in accordance with the law, and producing minutes of boarding meetings and shareholders meetings)?	>	8. The CPA has no kinship relationship with any of the Company's directors or managerial officers, or any persons who hold the position that might affect the audit materially.  The corporate governance unit would maintain the fair two-way communication with the team delegated by the CPA firm and related unit periodically. The CPA's audit/review also complies with the independence requirements defined in the Bulletin of Norm of Professional Ethics for Certified Public Accountant of the Republic of China No. 10 to ensure reliability of the public financial information, communicate the auditors' work, and verify the Company's material risk and the management's approaches to mitigate risk.  Since the Company's "Corporate Governance Best-Practice Principles" passed by the Board of Directors on August 6, 2015, Mr. Shih-Shieh Chang has held the position as the Corporate Governance Officer concurrently. Upon approval of the Board of Directors on March 14, 2019, the Company assigned the corporate governance unit officially and appointed VP Shih-Shieh Chang to hold the position as Corporate Governance Officer concurrently. All of the staff dedicated in processing related affairs hold the experience in holding the position as the management at the legal affairs, finance, shareholders service or corporate governance units in securities, financial and futures firms or public companies for at least three years, which afford to ensure their effective exercise of duties about corporate governance free from any conflict of interest or violations of the internal	None
		control system. In 2019, the relevant practices include the following, which were all held complying with laws:  1. Conducting the related matters of board meeting and shareholders meeting according to the law.	
		<ol> <li>Taking the meeting minutes of board meeting and shareholders meeting.</li> <li>Assisting the directors in onboarding and continuous education.</li> <li>Providing the directors with the information relating to perform the duties.</li> <li>Assisting the directors to comply with the law and regulation.</li> <li>Other matters listed in articles of incorporation or contracts.</li> </ol>	

			Implementation Status	Departures from
Assessment Item	YES N	O <sub>N</sub>	Explanation	Governance Best-Practice Principles for TWSE/TPEx Listed Companies
			To assist in reminding directors when they execute the business or approving a formal resolution during Board of Directors meeting, they should comply with the laws and regulations and related suggestions. Responsible for reviewing the important information releasing issues over vital resolutions of the board of directors meeting and ensure the lawfulness and correctness of the published contents in a timely manner after the board of directors meeting to protect investors' right on equivalence of transaction information.  VP Shih-Shieh Chang will continue to attend the continuing education and training about corporate governance. For details, please refer to Pages 72~73 herein. The additional details, if any, will be disclosed on the Company's official	such departures
5. Has the Company established a means of communicating with its Stakeholders or created a Stakeholders Section on its Company website? Does the Company respond to stakeholders' questions on corporate responsibilities?	>	The up-s and the mail inve final inter	Company's has set up the stakeholder section on its official website. The tream suppliers or contractors outside the organization may verify the laws regulations related to products through procurement. Customers may verify status of the Company and products via the customer service box/hotline/sales representatives. The other stakeholders, such as stors/banks/government authorities, may follow up the Company's latest notial information or other information via the Company's official website, TV view and media report.  stakeholders may contact the Company via the following website:	None
6. Has the Company appointed a professional registrar for its Shareholders' Meetings?	>	E Pa SS	t, Horizon Securities, was appointed to meetings on behalf of the Company. In of Horizon Securities is also son behalf of the Company.	None
7. Information Disclosure (1) Has the Company established a corporate website to disclose information regarding its financials, business and corporate governance status?	>	LT 48 iii	The Company's homepage has set up the sections exclusive for investors' N shareholder service and customer service. The related messages may be accessed in the news and CSR sections.	None

			Implementation Status	Departures from
				Governance
				Best-Practice
Assessment Item				Principles for
	YES	 O Z	Explanation	TWSE/TPEx
				Listed Companies
				and reasons for
				such departures
(2) Does the Company use other information disclosure	>		<ul> <li>The Company has set up the English version of its homepage.</li> <li>Dedicated personnel designated to collect information and periodically undate</li> </ul>	None
website, designating staff to handle information			the homepage.	
collection and disclosure, appointing spokespersons,			Contact information including the spokesman system	
webcasting investors conference etc.)?			rider@epistar.com; robin_yu@epistar.com	
			Search the information about investor conferences	
			Visit the official website: IR/Financials/Investor Conference	
(3) Did the Company publish and report its annual		>		Publication and
financial report within two months after the end of a				reporting before
financial year, and publish and report its financial			managerial officers, and chief accounting officer before being submitted to the	the specified
reports for the first, second, and third quarters as well			Board of Directors at the end of February 2020 and approved. The publication and	deadline will
as the operating status for each month before the			reporting of the annual financial report was also completed at the same time. Due	depend on the
specified deadline?			to time constraints, the early release of financial reports for the first, second and	overall availability
			third quarters as well as the operating status for each month will depend on the	of company
			overall availability of company manpower.	manpower.
8. Has the Company disclosed other information to	`^		• Employee's interests and rights & employee care: Please see the section about	None
facilitate a better understanding of its corporate			management-labor relationship in the annual report (Pages 116~124).	
governance practices (e.g. including but not limited to			• The Company has established the Investor Relations department, and posted	
employee rights, employee wellness, investor relations,			the contact information thereof on the Company's official website. The	
supplier relations, rights of stakeholders, directors'			department is dedicated to processing shareholders' suggestions and	
training records, the implementation of risk			answering investors' questions.	
management policies and risk evaluation measures, the			• Suppliers are identified as the important partners helping the Company's	
implementation of customer relations policies, and			sustainable development, as the Company works with the suppliers to achieve	
purchasing insurance for directors)?			the win-win situation and puruse the corporate sustainability and growth	
			jointly. In 2018, the Company enacted the supplier management procedures	
			and supplier evaluation operating procedure, and had the procurement, quality	
			and related units appraise the suppliers' quality, competitiveness, delivery	
			period and prohibition from using hazardous substances. The evaluation result	
			served as the basis for management of the risk over suppliers. The supplier	
			quality system evaluation categorized the suppliers into four grades, namely A	

		Implementation Status		Departures from
Assessment Item	YES N	NO Explanation		Governance Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
		(≥90 points), B (≥75~490 points), C (≥60~475 points) and D (less than 60 points). If the evaluation result showed Grade C, it would be necessary to strengthen the counseling and improvement with respect to the supplier's management team, and then give scores after the counseling. If the supplier In 2019, the Company adjusted the frequency of audit and added the audits on the equipment/spare parts suppliers in response to the requirements under IATF. As a result, the Company completed the evaluation on a total of 65 suppliers, including 4 Grade A suppliers who were held qualified and excellent, 60 Grade B suppliers and 1 Grade D supplier. A score of less than 60 indicates a high level of risk in the production environment and operation method. Such suppliers are to be removed and barred from future transactions.  • The Company has established the stakeholder section. For the time being, the Company identifies 7 major stakeholders section. For the time being, the Company identifies 7 major stakeholders, including employees, shareholders/investorsbank, corporate accounts, contractors, suppliers, governmental authorities and outsourcers, et al., who may keep in touch with the Company or submit any suggestions and complaints via various communication channels.  • For the status of directors' continuing education, please see Pages 70~72 of the amunal report.  For the risk management policies, et al., please see Chapter 7. Review of Financial Conditions, Financial Performance, and Risk Management Pages 151~155, and "Trade Secrets Committee" Pages 154~146.  • With respect to health and safety of the product, marketing communication, customers' satisfaction, compliance with laws and customers' privacy, the customers may utilize questionnaire, customer service email box, customers satisfaction, survey and the Company's official web-fice et al. Meanwhille, the	c less than 60 e necessary to the supplier's If the supplier. In the audits on rements under of less than a total of 65 qualified and ore of less than total operating et transactions. The end operating et transactions into being, the end operating so will a various of the suppliers, on touch with a via various ages 70~72 of 7. Review of genent Pages mittee" Pages ommunication, s' privacy, the ox, customers' Meanwhile, the	sterii to partui ca
		operating center's staff may visit customers or attend related fairs from time to time to facilitate a better understanding of customers and the market	rs from time to	

			Implementation Status	Departures from
Assessment Item	YES N	ON	Explanation	Governance Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
			development orientation.  For the Company's purchase of product liability insurance for directors and other important information to facilitate a better understanding of the Company's corporate governance practices, please see Pages 70~74 of the annual report, or access the information in the following manner:  IR: rider@epistar.com, robin_yu@epistar.com  CSR: csr@epistar.com  Customer service: sales@epistar.com	

9. The improvement status for the result of Corporate Governance Evaluation announced by Taiwan Stock Exchange:

(1) According to the result of Corporate Governance Evaluation of the 5th term announced by Taiwan Stock Exchange, the Company was one of the companies ranking in the first 6%~20%. Notwithstanding, the result of Corporate Governance Evaluation of 6th term has not yet been announced before the date of publication of the annual

supervising the unit. All of the staff dedicated in processing related affairs held the experience in managing legal affairs, finance and shareholders service in public (2) The Company has assigned the corporate governance unit. Vice President Shih-Shieh Chang holds the position as Corporate Governance Officer responsible for companies for at least three years.

(3) All of the directors have completed the continuing education of the hours required under the "Directions for the Implementation of Continuing Education for Directors and Supervisors of TWSE Listed and TPEx Listed Companies" in 2019.

communicate and understanding the related motion in advance and issue a proxy to express his/her opinion. Where the directors' meeting date is changed temporarily, (4) The directors' meeting called by the Company will be pre-arranged annually. Where it is impossible for any directors to attend the meeting, the director may still the Company will try its best to set the meeting on the date on which the director might be available to increase the whole directors' attendance rate.

## 3.3.4 Remuneration Committee

# 3.3.4.1 Remuneration Committee Members' Professional Qualifications and Independent Analysis

According to the relevant requirements set by Taiwan's Securities and Futures Bureau, the professional qualifications and independence status of the Company's Remuneration Committee members are listed in the table below.

Position in a Department of Attorney, Certified Public the Area of Commerce, Law,  Accounting, or Professional or Technical Otherwise Necessary for the	Law, , or or the 1y 1					(2001)			Number of Other
Specialists who has Fassed a National Examination and a Partificate in a Profession Necessary for the Business of the Company			4	٠,	9	7	8	6	Taiwanese Public Companies Concurrently Serving as a Remuneration Committee Member in Taiwan
	>	<ul><li>,</li><li>,</li><li>,</li><li>,</li><li>,</li></ul>	`	`	>	>	<i>&gt;</i>	^	0 /
	>	,	,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	>	>	>	>	-1
`	>	›	`	`	>	>	>	>	3

Note: Remuneration Committee Members, during the two years before being elected or during the term of office, meet any of the following situations, please tick the appropriate corresponding boxes:

Not an employee of the company or any of its affiliates;

Not a director or supervisor of the company or any of its affiliates (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent.)

Not a natural-person shareholder who holds shares, together with those held by the person's spouse, minor children, or held by the person under others' names, in an aggregate amount of one percent or more of the total number of issued shares of the company or ranks as one of its top ten shareholders;

Not a director, supervisor, or employee of a corporate shareholder that directly holds five percent or more of the total number of issued shares of the company, or that ranks among the top five in shareholdings, or that designates its representative to serve as a director or supervisor of the company under Article 27, paragraph 1 or 2 of the Company Act (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the Not a spouse, relative within the second degree of kinship, or lineal relative within the third degree of kinship, of a managerial officer under (1) or any of the persons listed in (2) and (3). 4. v.

Not a director, supervisor, or employee of another company if a majority of the company's director seats or voting shares are controlled by the same person (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the

those positions at the other company or institution are the same person or are spouses (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent). Not a director, supervisor, or employee of another company or institution where the chairperson, general manager, or person holding an equivalent position of the company and a person in any of

- Not a director, supervisor, officer, or shareholder holding five percent or more of the shares, of a specified company or institution that has a financial or business relationship with the company. (excluding independent directors appointed in accordance with the Act or the laws and regulations of the local country by, and concurrently serving as such at, a public company and its parent or subsidiary or a subsidiary of the same parent, where the specified company or institution holds 20 percent or more and no more than 50 percent of the total number of issued shares of the public ∞.
- Not a professional individual who, or an owner, partner, director, supervisor, or officer of a sole proprietorship, partnership, company, or institution that, provides auditing services to the company or any affiliate of the company, or that provides commercial, legal, financial, accounting or related services to the company or any affiliate of the company for which the provider in the past 2 committee, or special committee for merger/consolidation and acquisition, who exercises powers pursuant to the Securities and Exchange Act or to the Business Mergers and Acquisitions Act or years has received cumulative compensation exceeding NT\$500,000, or a spouse thereof. This restriction does not apply to a member of the remuneration committee, public tender offer review related laws or regulations. 6
  - 10. Not been a person of any conditions defined in Article 30 of the Company Act.

# 3.3.4.2 Remuneration Committee Meeting Status

- (1) The Company's Remuneration Committee consists of 3 members for the time being, who are all independent directors.
- (2) The current members shall hold the position from June 20, 2019 until June 19, 2022 (same as the Board of Directors of 10<sup>th</sup> term). In 2019, the Remuneration Committee has held 3 (A) meetings. The members' attendance is stated as following:

		)			
Title	Name	Attendance in Person (B)	By Proxy	Attendance Rate in Person (%)(B/A)	Note
Chair	Feng-Shang Wu	8	0	200.001	Note 1
Member	Wei-Min Sheng	8	0	200.001	Note 1
Member	Chi-Yen Liang	8	0	200.001	Note 1

Note 1: The Board was appointed and renewed on June 20, 2019.

# (3) Important resolutions and status thereof

) milbor	ant resonar			
Term/	Ferm/st/nd/rd/th		Indomondant dinaston's	the Company's handling
t	ime	Contents of motion	muependent director s	of independent director's
I	Date		оринон	opinion
G.)	3-10	• Formulated the "Regulations Governing the Resignation or Retirement of Approved by all members Approved by the Board	Approved by all members	Approved by the Board
201	2019.03.14	Appointed Managers and Directors that are Also Employees."	unanimously.	of Directors.
	_	<ul> <li>Mr. Ming-Jiunn Jou filed an application for retirement.</li> </ul>		
	_	<ul> <li>Motion for proportion of allocation of remuneration to directors and employees in</li> </ul>		
	_	2019. [2% for remuneration to directors; 15% for remuneration to employees]		
	_	<ul> <li>Suggestion on salary for the Corporate Governance officer, Shih-Shieh Chang.</li> </ul>		
	1	<ul> <li>Suggestions on raise for managers in 2020.</li> </ul>		
	4-1	<ul> <li>Allocation of remuneration to directors in 2019. Not higher than 2% for</li> </ul>	Approved by all members   Approved by the Board	Approved by the Board
201	2019.08.08	remuneration to directors	unanimously.	of Directors.
	_	<ul> <li>Salary and remuneration to directors.</li> </ul>		
	4-2	Suggestions on raise and reward policy for managers in 2020.	Approved by all members   Approved by the Board	Approved by the Board
201	2019.12.12		unanimously.	of Directors.

#### Annotation:

- There was no recommendation of the Remuneration Committee that was not adopted or was modified by the Board of Directors.
- There were no written or otherwise recorded resolutions on which a member of the Remuneration Committee had a dissenting opinion or qualified opinion.
- The Company will take the salary level and economic trend in the market into account when adjusting employees' salary based on the Company's operating performance and personal performance each year. In the past, the range of raise was used to being higher than the market value, in order to shorten the gap between the market value and benchmark price. Nonethelss, since the gap has been shortened, the range of raise was suggested to be based on the market value. Meanwhile, the incentive compensation for variability was provided as the incentive tool, and a raise would be offered at the same time when any employee was promoted in order to encourage excellent talents.

3.3.5 Status of corporate social responsibility and any variance from the Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and the reasons for any such variance

Departures from the	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures	None
Implementation Status	Summary	The Company has formulated relevant risk management strategies and objectives from three vital perspectives by Economics, Environment, and Social related to fulfill the corporate governance, develop a sustainable environment, maintain social welfare, and strengthen disclosure of information about corporate social responsibility. Meanwhile, the CSR compilation team is engaged in compiling the CSR report via communication with stakeholders, reorganize the issues of concern to the representatives of relevant departments to participate in the promotion and implementation and delivering feedbacks of the implementation status, and the executive secretary regularly reports to the convener to review the effectiveness of the operation. The Stakeholders' issues of concern of 2019, the company's management strategies, goals, and implementation status, please refer to the CSR report.
	YES NO	
	YE	<b>&gt;</b>
	Assessment Item	1. Has the Company carried out a risk assessment of environmental, social and corporate governance-related issues based on the principle of materiality, and establish related risk management policies or strategies?  (Note: Principle of materiality refers to environmental, social and corporate governance issues that have a material impact on investors and other stakeholders.)

			Implementation Status	Departures from the
Assessment Item	YES NO	ON	Summary	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
3. Environmentally  (1) Is the Company committed to improving resource efficiency and to the use of renewable materials with low environmental impact?	>			None
(2) Has the Company set an Environmental management system designed to industry characteristics?	>			None
			Protection Administration. By virtue of environmental classification and code, the Company demonstrated its concrete achievement in	

Departures from the	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures	lata analysis livestment or the entire ly, in hopes ly, in hopes ly, in hopes ly, in hopes le crisks and lof company lunities were ly operations low and in low and in low and in loop the ed age risk loop the lo
Implementation Status	Summary	environmental protection in detail and completely. The data analysis output from the system may also serve as the basis for investment or management to enable the Company to consider the entire environmental management performance comprehensively, in hopes of achieving the purpose of environmental protection sustainability in the most economic and effective manner.  The position of "Corporate Social Responsibility Executive Secretary" was established by the Company to support the effective management of climate change. Governance of climate risks and opportunities was also applied to the management of company operations and assets. Climate-related risks and opportunities were also assessed in terms of their level of impact on company operations and probability.  The Company's assessment determined the following potential risks and opportunities from climate change on our business now and in the future:  1. Potential risks (regulatory risk and water shortage risk)  (1) Regulatory risk: In response to the regulatory risk from climate change, changes to the energy configuration of the Company's business locations may lead to increased operating costs or capital expenditure.  (2) Water shortage risk: In response to the water shortage risk from climate change, the Company's need to routinely contract for water tankers on stand-by increases operating costs
	YES NO	
	YI	S S S
	Assessment Item	(3) Has the Company conducted an assessment potential risks and opportunities from climate change on the business now and in the future, and adopted measures in response to climate-related issues?

		Implementation Status	Departures from the
Assessment Item	YES NO	Summary	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such
			departures
		2. Potential opportunities (product and service opportunities)  Climate change has raised global awareness on energy conservation and environmental protection issues. Climate change adaptation may however also create unlimited opportunities for the Company through increasing resource utilization, cost reduction, use of low-carbon energy, development of new products and services, entry into new markets, and improved supply chain resilience, etc. The technology for miniaturization of luminous-efficacy LEDs represents a business opportunity for Mini LED and Micro LED. Epistar's cutting-edge technology, vertical integration and strategic partners may provide a return on investment, place the Company in a position of strength for sustainable development, and maximize returns for shareholders.  In the face of global climate change and massive shifts in the ecological environment, Epistar must take ownership on environmental protection as a part of the global village. A UN report placed Taiwan in the high-risk category of climate change. The main risk from climate change induced by global warming is the cycle between torrential rains and extreme drought. Even if there is no change in total precipitation, this exposes Taiwan to the risk of water	
		shortages every year. The Company has taken the following measures to reduce business risks from climate change and increase product competitiveness:	

			Implementation Status	Departures from the
				Corporate Social Responsibility Best-Practice
Assessment Item	YES NO		Summary	Principles for TWSE/TPEx Listed Companies and
				reasons for such departures
		•		
		Flood prevention	To prevent torrential rains from climate change impacting on production at our plants, disaster	
		1	mitigation was implemented through the	
			installation of flood gates at driveway entrances	
			and key workshops vumerable to mooding, F100d prevention plans and standard operating procedures	
			were also established with regular disaster	
			prevention exercises conducted every year such as	
			operation of the flood gates and setting up flood	
			prevention pumps at plants.	
		Increased	Large amounts of purified water are needed during	
		water	the production process for washing chips. Water	
		recovery	can be reclaimed from some of the processes to	
			improve re-use rate.	
		Water	Water restrictions imposed by the water utility may	
		planning	affect some or all of the production capacity at a	
		during water	plant. When a notice is issued by the water utility	
		shortages	that the water supply will run at reduced pressure	
			of turned on, it a prant is water storage is octow the safe level then water tankers are immediately	
			activated for replenishment. Water restrictions are	
			also imposed for non-production activities. The	
			Epistar Drought Water Restriction - Emergency	
			Response Plan is divided into the several phases:	
			Observation, Response, Crisis Management and	
			Recovery. Different actions are taken in each phase	
			to reduce their impact on customers.	

			Implementation Status Depar	Departures from the
Assessment Item	YES NO	Oz	Cor Re Be Br Pr Pr Cor Cor TWS Cor	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
(4) Has the Company calculated its greenhouse gas emissions, water consumption and total amount of waste in the past two years, and formulated policies on energy conservation and carbon reduction, greenhouse gas reduction, as well as the reduction of water consumption and other wastes?	>		Emphasis Water shortage emergency exercises are conducted on water shortage emergency exercises are also organized for shortage every year. Exercises are also organized for conservation implemented every year to protect the environment and carbon and do our part for the planet.  The Company places great emphasis on environmental protection. The top priority is "Prevention of pollution, upgrading of energy utilization efficiency, creation of sustainable operations, and fulfillment of corporate social responsibility." Measures taken include consolidation and reduction, efficiency upgrades, continuous improvement, recycling and reuse, low-carbon management, and green procurement. Since 2008, the Company has participated in the Greenhouse gas emissions of Company plants in accordance with the ISO 14064-1 standard. Our audits and outcomes were also verified by certification bodies. The Company is continuing to use the tools already in place to cooperate with TOSIA on the updating of GHG audit data.  The Company responds to the energy-saving and carbon-reduction policy boosted by the government and deepens its awareness toward environmental protection by setting ten major key performance indicators for environmental protection and completing 2019 EPISTAR environmental protection performance baseline to discuss the descriptions about impact to environment by factory and draft the management processes.	υ

			Implementation Status	Departures from the
				Corporate Social Responsibility
Assessment Item			·	Best-Practice Principles for
	YES NO	 O Z	Summary	TWSE/TPEx Listed Companies and
				reasons for such
			The Commonstate anistation	acpainies
			The Company's counteffine as utes:  A creent of environmental protection expenditure: In 2010 in	
			addition to the costs of factory existing control equipments and	
			government fees, other major application descriptions were as	
			follows:	
			1. Company's Fab N3: Extra-set up wastewater monitoring	
			equipment in response to the demands of authorities.	
			equipments in response to the demands of environmental	
			protection regulations.	
			3. Company's Fab S3: Extra-set up or modified environmental	
			protection control equipments in response to the demands of	
			environmental protection regulations and energy conserving	
			improvement.	
			4. Company's Fab S1/S3: Replaced air-conditioning equipment,	
			lamps and lanterns, and expanded the capacity of the recycled	
			water system to save energy.	
		_	Greenhouse gas emission: The GHG emission in 2019 (169,412	
			ton CO <sub>2</sub> e) was increased by 7.25% from 2018 (182,656 tons	
			CO <sub>2</sub> e); the GHG emission strength in 2019 declined by 30% from	
			2012.	
			To better measure and manage our GHG emissions in order to	
			reduce the business impact of climate change, an initial goal of	
			reducing carbon emissions by 11,000 metric tons CO <sub>2</sub> e was set.	
			We are now building a renewable energy system and working to	
			complete the disclosure of Scope 3 GHG emissions in the CDP	
			questionnaire in order to understand the structure of Epistar's	
			dinote change	
			Cillian Clange.	

Summary  The water usage in 2019 (169,339.65 ton) was 0.76% from 2018 (188,925.95 ton); the water usage in production capacity at Epistar have led to investments in water recycling facilities every year icant progress has been achieved with 600,919 m³ vered in 2019, accounting for 36.7% of all water and an increase of 18.37% on 2018.  Ution prevention: The amount of waste in 2019 was 7 tons by 2019 (10,313 ton); the amount of waste it in 2019 increased by 72.5% from 2012; mainly eatment of temporary waste in some plants, fabilimization of production capacity and adjustment of tion capacity.  reducing raw material consumption and waste star is increasing our recycling rate and reducing of non-recyclable waste (requiring incineration, and landfill) through the development of new hope to continue decreasing the proportion of everythe proportion of the waste by increasing the proportion of everythe over 75% of all see for 5 consecutive years (waste recycling rate has 5% for 4 consecutive years since 2015); our target is to recycle over 80% of all waste from		Im	Implementation Status	Departures from the
Water usage: The water usage in 2019 (169,339,65 ton) was declined by 10.76% from 2018 (188,925.95 ton); the water usage strength in 2019 declined by 3.2% from 2012.  Major increases in production capacity at Epistar have led to corresponding investments in water recycling facilities every year as well. Significant progress has been aclieved with 600,919 m³ of water recovered in 2019, accounting for 36.7% of all water consumption and an increase of 18.37% on 2018.  ■ Aspect of pollution prevention: The amount of waste in 2019 was declined 12,217 tons by 2019 (10,313 ton); the amount of waste per unit output in 2019 increased by 72.5% from 2012; mainly due to the treatment of temporary waste in some plants, fab continuous optimization of production capacity and adjustment of amount production capacity.  In terms of reducing raw material consumption and waste reduction. Epistar is increasing our recycling rate and reducing the amount of non-recyclable waste (requiring incineration, solidification and landfill) through the development of new vendors. We hope to continue decreasing the proportion of non-recyclable waste for 5 consecutive years (waste recycling rate has exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 75% of all recyclable waste for 5 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from				Corporate Social Responsibility
	,	ON	Summary	Best-Practice Principles for TWSE/TPEx Listed
<ul> <li>◆ Water usage: The water usage in 2019 (169,339.65 ton) was declined by 10.76% from 2018 (188,925.95 ton); the water usage strength in 2019 declined by 32% from 2012.</li> <li>Major increases in production capacity at Epistar have led to corresponding investments in water recycling facilities every year as well. Significant progress has been achieved with 600,919 m³ of water recovered in 2019, accounting for 36.7% of all water consumption and an increase of 18.37% on 2018.</li> <li>◆ Aspect of pollution prevention: The amount of waste per unit output in 2019 increased by 72.5% from 2012, mainly due to the treatment of temporary waste in some plants, rab continuous optimization of production capacity.</li> <li>In terms of reducting raw material consumption and waste reduction. Epistar is increasing our recycling rate and reducing the amount of non-recyclable waste (requiring incineration, solidification and landfill) through the development of new vendors. We hope to continue decreasing the proportion of non-recyclable waste by increasing the proportion of non-recyclable waste by increasing the proportion of non-recyclable waste for 5 consecutive years since 2015; our medium-term target is to recycle over 75% of all recyclable waste for 5 consecutive years since 2015; our medium-term target is to recycle over 80% of all waste from</li> </ul>				Companies and reasons for such departures
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Aspect of pollution prevention: The amount of waste in 2019 was declined 12,217 tons by 2019 (10,313 ton); the amount of waste per unit output in 2019 increased by 72.5% from 2012; mainly due to the treatment of temporary waste in some plants, fab continuous optimization of production capacity and adjustment of annual production capacity.  In terms of reducing raw material consumption and waste reducing, Epistar is increasing our recycling rate and reducing the amount of non-recyclable waste (requiring incineration, solidification and landfill) through the development of new vendors. We hope to continue decreasing the proportion of non-recyclable waste by increasing the proportion of non-recyclable waste for 5 consecutive years (waste recycling rate has exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from		as well. Significal	nt progress has been achieved with 600,919 m <sup>3</sup> at in 2019 accounting for 36.7% of all water	
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annual production capacity.  In terms of reducing raw material consumption and waste reduction, Epistar is increasing our recycling rate and reducing the amount of non-recyclable waste (requiring incineration, solidification and landfill) through the development of new vendors. We hope to continue decreasing the proportion of non-recyclable waste by increasing the proportion of non-recyclable waste for stonsecutive years (waste recyclable recyclable waste for 5 consecutive years (waste recycling rate has exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from		due to the treatn	nent of temporary waste in some plants, fab zation of production capacity and adjustment of	
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non-recyclable waste by increasing the proportion of recyclable waste. Our short term target is to recycle over 75% of all recyclable waste for 5 consecutive years (waste recycling rate has exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from		vendors. We hol	pe to continue decreasing the proportion of	
recyclable waste for 5 consecutive years (waste recycling rate has exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from		non-recyclable wa	aste by increasing the proportion of recyclable	
exceeded 75% for 4 consecutive years since 2015); our medium-term target is to recycle over 80% of all waste from		recvclable waste f	or 5 consecutive years (waste recycling rate has	
medium-term target is to recycle over 80% of all waste from		exceeded 75%	for 4 consecutive years since 2015); our	
option of the last		medium-term targ	get is to recycle over 80% of all waste from	

			Implementation Status	Departures from the
				Corporate Social
				Responsibility
				Best-Practice
Assessment Item	YES NO	ON N	Summary	Principles for
				WSE/11 Ex Elsica
				Companies and
				reasons for such
				departures
			The Company has stipulated rules and regulations to be followed for	
			business partners of suppliers/contractors under the supplier	
			management procedures and regulations governing safety & health	
			management, so that suppliers/contractors are required to comply	
			with the relevant human rights provisions under Labor Standards	
			Law, including the prohibition of child labor and forced labor. PLS	
			refer to CSR report for reference.	
(2) Has the Company established and implemented reasonable	>		set the employee reward and	None
employee benefits (including remuneration, leave and			Company's related annual policy	
other benefits), and is business performance or results			and by combining the employee performance evaluation and	
annonriately reflected in employee remineration?			cornorate cocial reconcibility noticy and includes the noticies	
appropriately refrence in emproyee remainstandin:			corporate social responsionity poncy, and includes are poners,	
			systems, standards, and squetines for remuniciation and the	
			remuneration policy for consideration.	
			According to Article 20-1 of the Articles of Incorporation, the	
			Company shall allocate 10%~20% of the profit for the given year, if	
			any, as the remuneration to employees. The receivers of such	
			remuneration shall include the employees of the Company's	
			subsidiaries who meet certain specific requirements. In 2019 financial	
			statement, it was estimated as 15%. Notwithstanding, as the	
			Company suffered loss in 2019 and, therefore, no such remuneration	
			was allocated.	
			The Company will take the salary level and economic trend in the	
			market into account when adjusting employees' salary based on the	
			Company's operating performance and personal performance each	
			year. In the past, the range of raise was used to being higher than the	
			market value, in order to shorten the gap between the market value	
			and benchmark price. Nonetheless, since the gap has been shortened,	
			the range of raise was suggested to be based on the market value in	
			2019. Meanwhile, the incentive compensation for variability was	

			Implementation Status	Departures from the
				Corporate Social
				Best-Practice
Assessment Item	VES NO	Ş	Cummony	Principles for
	3		Summary	TWSE/TPEx Listed Companies and
				reasons for such
				departures
			provided as the incentive tool, and a raise would be offered at the	
			same time when any employee was promoted in order to encourage	
(3) Does the Company provide employees with a safe and	>		as established an Emergency Response Team We	None
healthy working environment, with regular safety and	•			
health training?			knowledge regarding industrial safety and to decrease the loss of	
			accidents. We also hold various health precaution activities, and	
			promote customized and risk control programs through health risk	
			indicators to improve the quality of health services. We've cooperated	
			with the Xingzhi International Business Management Consultation	
			Company to promote employees assistance service with	
			confidentiality and professional services for employees to deal with	
			their daily life's problems.	
(4) Has the Company established effective career development	>		yees are	None
training plans?			encouraged to attend professional courses or the online English	
			program on our "Chan Gin Que" website. Employees' learning	
			records shall be duly recorded and employees may log on to check	
			their own learning history.	
(5) Does the Company comply with the relevant regulations	>			None
and international standards on customer health and safety,			maintains the product liability insurance and its marketing of	
customer privacy, marketing and labeling for its products			products and services also complies with the related laws &	
and services? Has it established a consumer protection			regulations and international standards. Two-way communication	
policy and complaints procedure?			with customers is important to the Company. We also listen carefully	
			to customer feedback and use the score card method for customer	
			satisfaction surveys. Surveys of different aspects are used to obtain a	
			detailed understanding of customer opinions and requirements.	
			Survey data is analyzed for internal follow-up and improvement plans	
			proposed. The ultimate results of the surveys are also used as a	
			reference when determining the direction of the Company's strategic	
			planning.	

			Implementation Status	Departures from the
				Cornorate Cociel
				Responsibility
				Best-Practice
Assessment Item		(		Principles for
	YES	0 N	Summary	TWSE/TPEx Listed
				Companies and
				reasons for such
				departures
			All Company sales personnel must sign a confidentiality agreement	
			on customer data. Information security targets as well as complete	
			information security management procedures and systems were also	
			put into place. There has been no complaint due to violation of	
			customer privacy or loss of customer data to date.	
			Suppliers that have business dealings with the Company involving	
			the integrity and confidentiality of information assets must first sign	
			confidentiality agreements that also cover customer data. They then	
			understand that all information they obtain while working for the	
			Company are company assets and unauthorized use is not allowed.	
			The information security team should ensure that suppliers under all	
			of the information security requirements, identify all stakeholders that	
			need to be notified of the "Information Security Declaration", and	
			maintain record of notification and confirmation so that customer	
			privacy can be maintained.	
			The relevant complaints channel can be found on the Epistar website:	
			https://www.epistar.com/EpistarTw/contact	
(6) Has the Company defined a supplier management policy	>		management system, and	None
that requires suppliers to comply with the relevant			constructed the green value chain together with suppliers and vendors	
guidelines on environmental protection, occupational			to upgrade the performance of environmental protection and safety &	
health and safety, and human rights issues? How is the			health by sharing experience and improving cooperation, thus	
policy being implemented?			constructing a value chain of environmental sustainability, fulfillment	
			of occupational safety & health and mutual growth to be oriented	
			toward the harmony relationship with environmental safety.	
			The Company is aware of the concept about sustainable operations	
			and from 2015 asks to extend the concept to the supply chain and	
			introduces the "Supply Chain CSR Management Evaluation" to	
			conduct the evaluation on new suppliers and existing suppliers in	
			terms of the four aspects including environment, labor conditions,	
			human right and impact to society, so as to enable suppliers to	

6. If the Company has established its corporate social responsibility code of practice according to "Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies", please describe the operational status and differences.

Since the establishment of EPISTAR, our core business has been "Actualizing LED Potential". We continue to advance our research and develop new products, focusing on environmentally friendly products and optimizing chip process technology, allowing our LED to be applicable in various applications.

#### (Economic)

plummet. The 2019 consolidated revenue was therefore 21.4% lower than 2018; in 2020, the development of miniaturization technology for luminous-efficacy LEDs will begin to produce results and this will lead to an increasing number of new applications. There are still potential growth opportunities. For example, demand is increasing from the application of Mini LED to super-fine pitch high-end displays and monitors. LED's penetration rate in automotive and other applications have In the past year, increased production capacity by other LED companies, the US-China trade conflict and weaker-than-expected market demand caused market prices to continued to increase as well.

The entire operating activities are closely related to stakeholders, which serve as the basis for the Company's sustainability. The stakeholders may engage in effective communication with the Company via various channels.

		Implementation Status	Departures from the
			Corporate Social
			Responsibility
			Best-Practice
Assessment Item		č	Principles for
	YES NO	Summary	TWSE/TPEx Listed
			Companies and
			reasons for such
			departures

## [Corporate Governance]

EPISTAR advocates and acts upon the principles of operational transparency and respect for shareholders' rights. We believe that one basis for successful corporate governance is a sound and effective Board of Directors. In line with this principle, the EPISTAR Board of Directors delegates various responsibilities and authority to the two Board Committees, namely Audit Committee and Remuneration Committee. Each Committee has a written charter approved by the Board of Directors. Each Committee's chairperson regularly reports to the Board of Directors on the activities and actions of the relevant committee. The Audit Committee and Remuneraiton Committee consist solely of independent directors.

The Company also assigned one Corporate Governance Officer on March 14, 2019, who shall be responsible for supervising the corporate governance affairs.

### **Environment**

usage, water resource, greenhouse gas and many more all follow the P-D-C-A (Plan-Do-Check-Action) management mode and we continuously implement and improve environment protection programs. Energy conservations through lighting, air pressure and air conditioning and electric equipment all contribute to lower operating costs EPISTAR is the leading manufacturer of LED chips; therefore, we regard the environmental protection issue very seriously. Our energy consumption, raw material and in turn lowers impact on the environment. We hope that through energy conservation and process improvement, we can effectively lower our raw materials and energy consumption, increase energy efficiency and in turn create a sustainable corporate environment and protect the earth for our future generations. Approved by the Board, we have allocated yearly budget, and in 2019, our expenditure was NTD 3.103 billion.

equivalent to the carbon fixation of 1,100,000 trees for one year. By continuing to promote the energy saving and carbon reduction policy, the Company may attain the reduction of CO<sub>2</sub>e emission set by it, and also cut the operating cost in terms of corporate sustainability at the same time. Until the end of 2019, the Company has The Company has set the goal for energy saving and carbon reduction since 2012. The Company expects to reduce the emission of CO<sub>2</sub>e by 11,000 tons in 2020, attained the reduction of CO2e emission by 9,338 tons, namely 84.9%.

#### Society

EPISTAR provides competitive income, benefits, training, and planning for our employee's career development. We held many activities which promotes family In 2019, the Company's social public welfare program focused on the three major aspects, namely rural education, care for children and fostering of industrial development. The Company not ony maintains the existing economic support but also hopes to lead more employees and other institutions to participate in the social relationships, exercise and health, and continuously to find balance between work and living, allowing our employees to be "happy at work, enjoy living public welfare to enhance the synergy of contribution to the society.

Departures from the	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures	nsultation" and worked as	Common Prosperity  Team  Human Resources Center  Sales & Marketing Center
Implementation Status	Summary	company's social participation is briefed as follows:  Company's social participation is briefed as follows:  We were invited to participate in Hsinchu Science Park Bureau "Occupational safety & health expert team—man-made hazard preventive consultation," and worked as leader and consultor in 2018. We helped 3 companies, and 6 sessions in total.  As a social citizen, we give back to the society and care for the community. We've participated in charitable events in low-profile including charitable donation of NT\$845,200, 500 X' mas gifts for children in rural areas, 282 second hand toys raised, and Epistar volunteer club activities record.  Organization of Corporate Social Responsibility Team  Organization of Corporate Social Responsibility Team  Executive Secretary  Sales & Marketing Center  Sales & Marketing Center	Safety and Culture Team  Environmental Safety and Health Div.  Intellectual Property & Legal Affairs Div.  Information Technology Center  Center  Center  Center  Center  Center  Center  Center
	YES NO	ing of the Compa  R Bureau "Occupa and 6 sessions in are for the commus, 282 second har es Social Responsil  Diganization of Co  TY  ETY  ETY  ETY  ETY  ETY  ETY  ETY	Employee Relations Team  Human Resources Center
	Assessment Item	7. Other important information to facilitate better understanding of the Company's implementation of corporate social responsibility:  The Company's social participation is briefed as follows:  We were invited to participate in Hsinchu Science Park Bureau "Occupational safety & health expert team—man-made hazard leader and consultor in 2018. We helped 3 companies, and 6 sessions in total.  As a social citizen, we give back to the society and care for the community. We've participated in charitable events in low NT\$845,200, 500 X'mas gifts for children in rural areas, 282 second hand toys raised, and Epistar volunteer club activities record an activities record and functions of the Corporate Social Responsibility Team  Organization of Corporate Social Responsibility Team  Convener  President  Sales & Marketing Center  Sales & Marketing Center	Economic Sustainabilty Team  Finance & Accounting  Sustainability Team  Finance & Accounting  Sales & Marketing  Center  Sales & Marketing  Supporting Center

			Implementation Status	atus	Departures from the
Asses	Assessment Item	YES NO	Summary	ıry	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
Department		Functions		Stakeholder Category	egory
Sales & Marketing Center (Executive Secretary)	Marketing and communication compliance, corporate social responsibility management, marketing media relations management, and social public w	mpliance, corp lations manage	compliance, corporate social responsibility relations management, and social public welfare	Employees, Customers	
Finance & Accounting Center	Social economic compliance, Risk management and disclosure of finance of tax strategy, dividend policy, etc., and investor relations maintenance	k management tc., and investo	isk management and disclosure of finance, capital etc., and investor relations maintenance	Shareholders/Banks/Investors	
Human Resources Center	Labor standards compliance, employees' codes of ethical conduct, human resource recruitment, training and career development, labor-management relations, and promotion of social public welfare	loyees' codes career developed bublic welfare	of ethical conduct, human oment, labor-management	Employees	
Environmental Safety and Health Div.	Environmental protection and occupational safety compliance, green production, environmental protection expenditure, occupational safety, culture and responsibility, and pollution prevention	upational safet ture, occupatio	y compliance, green production, nal safety, culture and	Employees, Shareholders/Banks/Investors, Customers, Suppliers, Contractors, Governments	Investors, ctors, Governments
Supporting Center	Energy saving and carbon reduction, cleaner production	on, cleaner pro	duction	Employees, Shareholders/Banks/Investors, Customers, Suppliers, Contractors	Investors, rs
Sales & Marketing Center	Social economic compliance, green products, service market, and Customers' privacy	en products, se	rvice market, and Customers'	Customers, Shareholders/Banks/Investors	Investors
Logistics Center	Social economic compliance, procurement policy, overview of supply chain, and management of materials and supply chain	curement policiply chain	y, overview of supply chain, and	Suppliers, Contractors	
Quality Assurance Center	RoHS, REACH, international environmental protection regulations and product quality compliance, customer service and satisfaction, product safety and quality management	ironmental pro ice and satisfa	otection regulations and product ction, product safety and quality	Customers, Suppliers, Subcontractors	ctors
Intellectual Property & Legal Affairs Div.	Social economic compliance, codes of ethical conduct, legal counseling, intellectual property right management, and the Company's confidential information	es of ethical co ment, and the	nduct, legal counseling, Company's confidential	Employees, Customers, Shareholders/Banks/Investors, Governments	overnments
Information Technology Center	Information security compliance, customers' privacy, and information security	customers' pri	vacy, and information security	Employees, Customers, Shareholders/Banks/Investors	lders/Banks/Investors

Departures from the	Corporate Social Responsibility Best-Practice Principles for TWSE/TPEx Listed Companies and reasons for such departures
Implementation Status	Summary
	YES NO
	Assessment Item

Human Resources Center officer and Corporate Governance Officer had reported the status of fulfillment of corporate social responsibility and ethical management in 2019 to the Board of Directors on December 12, 2019.

- 1. In order to promote the corporate social responsibility, the president acts as the convener. In 2018, Sales & Marketing Center acted as the executive secretary and disclosed the status of corporate social responsibility in the CSR report and on the Company's official website.
- 2. For the ethical management, Human Resources Center is responsible for planning and executing the various functions and reporting the result and status of budget executed by it. The president also assigns related units to help establish the ethical management policy and prevention program from time to time, and disclose the status thereof in the CSR report and on the Company's official website.
- The Company acquires the following quality system certification and continues maintaining the same: ISO/TS 16949 Certificate of Automotive Industry Quality Management System ISO 9001 Certificate of Quality Management System SONY GP Certification
- The Company acquires the following ESH system certification and continues maintaining the same: Faiwan Occupational Health and Safety Management System-TOSHMS/CNS 15506 Occupational Health and Safety Management System-OHSAS 18001 Environmental Management System-ISO 14001 Greenhouse Gases Emissions-ISO 14064-1

3.3.6 Status of corporate social responsibility, and any variance from the Ethical Corporate Management Best-Practice Principles for TWSE/TPEx Listed Companies and the reasons for any such variance

THE THE CONTRACT OF THE TANK THE TANK THE	. ( Trans	ion and sacin tailaine	
		Implementation Status	Departures from the
			Ethical Corporate Management Best-Practice
Assessment Item	YES NO	Summary Summary	Principles for TWSE/TPEx Listed
			Companies and reasons for such
1. Establishment of Corporate Conduct and Ethics Policy and Implementation Measures			uepartures
(1) Has the Company established an ethical management policy	>	"Honesty and Integrity" are important company core values. The	ne None
approved by the Board, declared its ethical corporate management policies and procedures in its guidelines and		Board and senior management carry out their duties in a loyal and honest manner in good faith while upholding consistent ethical	pd al
external guidelines, as well as the commitment from its		standards. Our Code of Ethics is available on the Market Observation	uc
board and senior management to implement the policies?		Post System and corporate website. All employees are required to adhere strictly to the ethics policy and anti-corruption rules. The	to
		Board and senior management are also committed to the active	ve .
	`	fulfilment of their business promises.	
(2) mas the Company established a mechanish for evaluating the risk of unethical behavior? Do business activities with a	>	Before the official information is announced, anyone involved is	is mone
higher risk of unethical behavior undergo regular analysis		required to sign confidentiality agreement and shall not disclose	se
and assessments so that measures for the prevention of		important internal information to others. We also have strict control	lo
unethical behavior can be formulated, including at a		and precaution system about information security (IT).	
of the "Ethical Corporate Management Best Practice			
Principles "?			
(3) Does the Company establish relevant policies that are duly	>	The Company strictly prohibits corruption, bribe and blackmail,	il, None
implementation procedures, guidelines, consequence of		establishes effective accounting system and internal control system, includes such promotional documents as employee handbook and	n,
		employee reward & punishment regulations into the relevant	nt
aforementioned measures reviewed and updated on a regular		anti-corruption guidelines and punishment against rule breakers, and	pı
basis?		provides employees with related educational training to ensure that	at
		each of the employees understand the related agreement and rules.	S.
			ld l
		system. The Company also establishes the ethical corporate	te

			Implementation Status	Departures from the
				Ethical Corporate Management
Assessment Item	YES	ON	Summary	Best-Fractice Principles for TWSE/TPEx Listed
				Companies and
				departures
			management best-practice principles, ethical code, operating procedure for prevention of insider trading and employees'	
			complaining channels. For the relevant complaining mechanism,	
			channel, and procedure please visit the Company's official website. These are also incorporated into the internal controls for random	
		•	audits.	
2. Ethic Management Practice				
(1) Does the Company assess the ethics records of whom it has	>			None
business relationship with and include business conduct and			transparent manner. Meanwhile, before engaging in any commercial	
ethics related clauses in the business contracts?			activity, the Company will assess the trading counterpart carefully to	
			avoid engaging in transactions with an unethical counterpart. When	
		•	concluding the business contract with the trading counterpart, the	
			counterpart needs to sign the letter of undertaking of integrity	
			committing to bear legal liability and damages to maintain both	
(2) Has the Company established a dedicated (part-time) unit	>	- '	the ethical management, the Company has	None
supervised by the Board of Directors for the promotion of				
ethical corporate management that regularly (at least once a		•	various functions and reporting the result and seeking the budget	
year) reports to the Board of Directors on its ethical			approved by the Board of Directors on December 12, 2019, in	
management policy, precautions against unethical behavior,			addition to implementation of the project objectives. The president	
and implementation of oversight?			also assigns related units to help establish the ethical management	
			policy and prevention program from time to time. To this end, the	
			Company established the "Trade Secrets Committee" (see Page	
			155~156 for details) on January 26, 2018. The Company will organize	
			the meeting each month, in addition to implementing the educational	
			training. (see Page 120 for details) The Company releases e-news	
			periodically and arranges the educational training offered by related	
			experts for employees from time to time, and also disclose the status	
			thereof in the CSK report and on the Company's official website.	

			Implementation Status	Departures from the
				Ethical Corporate
				Management Best-Practice
Assessment Item	Č L	5		Principles for
	N N N	<u> </u>	Summary	TWSE/TPEx Listed Companies and
				reasons for such
(3) Does the Company establishe policies to prevent conflict of	>		We've established effective accounting and internal control system	None
interests, provide appropriate communication and complaint			and operated smoothly. Complaints or reporting system also runs well	
channels and implement such policies properly?			so as to prevent corruption.	
(4) Has the Company established effective systems for both	>	_	The Company has established an effective accounting and internal	None
accounting and internal control to facilitate ethical corporate		_	control system and operated smoothly. Internal auditors devise audit	
			plans targeting the risk of unethical behavior based on a range of	
			potential scenarios. The results of internal control audits are used to	
investigate non-compliance, or have CPAs been retained to			develop preventive measures in cooperation with the heads of each	
conduct such audits?			unit. These are enforced to prevent unethical behavior. Internal audit	
			members conduct regular audit as the planned schedule and make	
			audit reports. Audit reports are sent for directors and independent	
			directors for inspection so as to prevent corruption.	
(5) Does the Company provide internal and external ethical	>		Epistar will have a complete plan for employee development, we have	None
conduct training programs on a regular basis?			a training roadmap according to each functional skill and position, and	
			the employees can study through eLearning or participate in the	
			internal training courses or register for external training courses	
			through the training system. All employees could check detailed	
			training records by themselves in the system. For the details about	
3 Implementation of Complaint Procedures			educational training on ethical management, please see Page 120.	
3. Implementation of Companie Decembes	,			
(1) Does the Company establish specific complaint and reward	>		The Company sets up the independent email box and hotline available	None
procedures, set up conveniently accessible complaint			to complainants at the Company's internal portal website and official	
channels, and designate responsible individuals to handle the			website. Any person who suspects or finds any violation of laws or	
complaint received?			etnical code may report the case to any of the following units and also	
			provide sufficient information. If necessary, the Company will form a	
			dedicated committee in confidential manner. The process of	
			investigation and information related to the committee members,	
			concerned parties shall be kept confidential, and the complainants'	
			safety must be secured. The process shall also be reported to the	
			Chairman of Board.	

		Implementation Status	Departures from the
			Ethical Corporate  Management  Best-Practice
Assessment Item	YES NO	Summary	Principles for TWSE/TPEx Listed
			Companies and reasons for such departures
		, ,	
		2. Audit dept. supervisor, Human Resources Center/Employee Relations department supervisor or legal office & intellectual	nployee   ellectual
		3. The opinion response mechanism set up by the Company internally	ompany
		4. The channel available to stakeholders	
		5. or other eligible personnel	
		The opinion response mechanism not only offers the employees'	ployees'
		complaining hotline but also sets up the opinion mailbox exclusive for	sive for
		employees. Employee Relations department acts as the dedicated unit	ted unit
		responsible for organizing seminars for employees periodically, setting	, setting
		up the "being harassed while performing duties" hotline and mailbox,	nailbox,
		and organizing the "Heart Communication Meeting" chaired by	Ired by
		rresident noin time to time. Additionally, the complaint may be inco- with Audit Department Investor relations mailbox CSR mailbox	De Illeu nailhox
		customer service mailbox or channel available to stakeholders may	ers may
		serve as the external communication channel. The Company	ompany
		establishes ESH communication and consultation management	agement
		procedure to enable the ESH management system to reach the	ach the
		consensus within the Company, and also establishes the ESH	e ESH
		consultation and communication channel available to the Company's	npany's
		external stakeholders. Any complaint will be processed as a special	special
		case promptly, and the process thereof will be reported to the Chairman	hairman
		of Board. Given this, the Company's complaining channels are	iels are
		considered perfect.	

			Implementation Status	Departures from the
				Ethical Corporate Management
Assessment Item	YES NO	OZ	Summary	Best-Practice Principles for TWSE/TPEx Listed
				Companies and
				reasons for such departures
(2) Has the Company established standard operating procedures	>		Employee complaints and reports for offense are investigated in	None
for the investigation of complaints, what follow-up actions			accordance with the relevant internal control procedures and the	
to take once an investigation is complete, and the relevant			investigation committee is responsible for conducting investigations	
			reporters; unless otherwise provided by laws, the personal data and	
			reporting materials provided by the reporters shall be kept confidential	
			and we'll provide appropriate protective measures in accordance with	
			the law to confirm that it has been dealt with by relevant protection	
			mechanisms. Please refer to the section on "Whistleblower	
			Mechanism and Whisteblower Protection" for more information.	
(3) Does the Company adopt proper measures to prevent a	>		Strictly keep the complainant's identity, the process of investigation	None
complainant from retaliation for his/her filing a complaint?			and related information confidential; if necessary, form a dedicated	
			committee to conduct the related investigation.	
			The members of investigation committee and relevant persons	
			involved are required to keep confidential of the investigation process	
			and related materials, and do their utmost to protect the safety of the	
			reporters, and report the situation to the Chairman.	
4. Information Disclosure				
Does the Company disclose its guidelines on business ethics as	>		The Company discloses the information related to the Company in the	None
well as information about implementation of such guidelines on			investor service section and stakeholder section on the Company's	
its website and Market Observation Post System ("MOPS")?			official website at: http://www.epistar.com	
5. If the Company has established corporate governance policies ba	ased or	ı,,the	5. If the Company has established corporate governance policies based on "the Ethical Corporate Management Best-Practice Principles for TWSE/TPEx Listed Companies,"	x Listed Companies,"
please describe any discrepancy between the policies and their implementation: None	npleme	ntatic	: None.	•
, , ,	1			

	Implementation Status	Departures from the
		Ethical Corporate
		Management
		Best-Practice
	c	Principles for
Y ES INO	Summary	TWSE/TPEx Listed
		Companies and
		reasons for such
		denartures

6. Other important information to facilitate better understanding of the Company's corporate conduct and ethics compliance practices (e.g., review the company's corporate conduct and ethics policy):

# Whistleblowing system and whistleblower protection

Epistar forbids corruption and any forms of malpractice. When any person suspects or finds any violation of laws & regulations (including corruption) or unethical conduct, please inform the Company via the independent whistleblowing mailbox or hotline, subject to the type of accused party, to help the Company assign the case to the relevant management level effectively.

Communication for antidam (Contact for etal abolders		Communication channel for internal personnel
Communication for outstacts/Contact for stanciforation		(employees)/Feedback mechanism
● Shareholders/investors, government agencies, trade	•	Immediate supervisors
associations/media, financial institutions	•	Employee Relations Department
Corporate customers	•	Labor-management meeting
• Suppliers	•	Audit Office
<ul> <li>Contractors</li> </ul>	•	Alternatively, the "Contact for Stakeholders."
• Employees		
<ul> <li>Corporate social responsibility mailbox</li> </ul>		
• Whistleblowing mailbox for violations of the code of		
business ethics		

Epistar is used to keeping in confidence the information from internal channels or external channels. Any accused case will be treated as one special case to be resolved by formation of the dedicated committee, adoption of the protection measures against the whistleblower pursuant to laws, protection of the whistleblower's identity and accusation, and undertaking to prevent the whistleblower from being treated improperly.

- 6.1 The whistleblower shall at least provide the following information:
- 6.1.1 The whistleblower's name, and address, Tel. No. and email address accessible to the whistleblower;
- The accused party's name, or any other information sufficient to identify the accused party's identity or characteristics;
  - 6.1.2 The accused party's name, or any other i 6.1.3 Concrete fact and evidence investigable.

## 6.2 Dedicated committee members

The Audit Office, Intellectual Property & Legal Affairs Div., Human Resources Center and 9 senior officers shall act as the members, and 5 out of them shall be elected to form the dedicated committee for each individual case upon exclusion of the concerned parties' supervisors (members).

		Implementation Status	Departures from the
			Ethical Corporate
			Management
			Best-Practice
Assessment Item		c	Principles for
	YENNO	Summary	TWSE/TPEx Listed
			Companies and
			reasons for such
			departures

6.3 Operating procedures adopted by the dedicated committee

- 6.3.1 The accusation involving general employees shall be submitted to the department head. The accusation involving directors or senior management shall be reported to the Chairman of Board and independent directors.
- The dedicated committee and the management or personnel referred to in the subparagraph shall verify the truth immediately, and ask the related department or such external unit as attorney-at-law and CPA firms for assistance, if necessary, 6.3.2
- Where it is proven that the accused party does violate the related laws or the Company's etical management policy and requirements, the Company shall ask he accused party to cease the relevant activity immediately and also take appropriate measures, and claim damages through legal actions to maintain the Company's goodwill, interest and right, if necessary. 6.3.3
  - The acceptance and investigation of accusation and the investigation result shall be recorded in writing and the written record may be maintained in an electronic form for five years. Where any legal action involving the accusation is initiated prior to expiration of the written record, the related information shall be maintained until the legal action is concluded. 6.3.4
- Where the accusation is proven to be true, the Company shall order the Company's related units to review the relevant internal control system and operating procedures, and propose the corrective action plan to stop the relevant incident from taking place again. 6.3.5
  - The dedicated committee shall report the accusation, resolution thereof and followup on corrective actions to the Chairman of Board, and report the same to the Board of Directors, subject to the materiality of the case. 6.3.6
- Where it is proven to violate the Company's regulations, systems and ethical management requirements, the Company will render the punishment pursuant to the relevant management regulations, and disclose the person's job title and name, contents of the violation and resolution on the intranet or the Bulletin. Where the case is considered material, the Company shall take necessary legal actions, dismiss the person, and also never hire the same person again. 6.3.7
  - 6.3.8 Respond to the whistleblower about the resolution on the accusation.
- 6.4 Operating procedures for handling employees' complaints and accusation
- 6.4.1 The complaint filed by any employee shall specify the following information.
- Subject to the case, a dedicated committee will be formed in a confidential manner to conduct the relevant investigation and report the resolution to the Board of Directors. 6.4.2
- with incentive rewards and also take appropriate protection measures to undertaking that the whistleblower would not be treated improperty due to the accusation and related protection mechanism is adopted. Notwithstanding, where the whistleblower is found fabricating the truth and making misrepsentation Where the accusation against the specific person's corruption or acceptance of bribe, if any, is proven to be true, the Company will provide the whistleblower or grievance, or defaming others intentionally, the whistleblower shall bear the legal liability for perjury or false accusation solely, and the Company will bring the whistleblower into justice pursuant to laws, and render punishment on the whistleblower pursuant to the Company's internal regulations. 6.4.3
- For the other procedures, please apply the "Operating Procedures of Dedicated Committees." 6.4.4

3.3.7 Disclosure of and search for corporate governance best-practice principles and related bylaws

Major Internal Policies	Mode of Disclosure & Search
<ul> <li>Articles of Incorporation</li> </ul>	M.O.P.S.:
<ul> <li>Rules of the Shareholders' Meeting</li> </ul>	http://mops.twse.com.tw
<ul> <li>Rules for Elections of Directors and Supervisors</li> </ul>	Search in Basic information section/E-book/Annual report
<ul> <li>Rules of the Board of Directors' Meeting</li> </ul>	and injoinfation about shareholders incerning of corporate covernance section/Establishment of corporate governance
<ul> <li>Audit Committee Charter</li> </ul>	best-practice principles.
<ul> <li>Remuneration Committee Charter</li> </ul>	•
<ul> <li>Acquisition or Disposal Procedures of Asset</li> </ul>	Company's website:
<ul> <li>Procedures for Endorsements and Guarantees</li> </ul>	http://www.epistar.com
<ul> <li>Procedures for Loaning Funds to Other Parties</li> </ul>	Search in the IN/Corporate Governance/ Major Internal Policies
<ul> <li>Corporate Governance Best Practice Principles</li> </ul>	
<ul> <li>Ethical Corporate Management Best Practice Principles</li> </ul>	
Ethical Conduct	
<ul> <li>Rules Purview of Independent Directors</li> </ul>	
<ul> <li>Corporate Social Responsibility Best Practice Principles</li> </ul>	
<ul> <li>Procedures for Preventing Insider Trading</li> </ul>	
<ul> <li>Procedure for Halt and Resumption Applications</li> </ul>	
<ul> <li>Articles of Association of Special Committee on M&amp;A</li> </ul>	

3.3.8 Other important information to facilitate better understanding of the Company's implementation of corporate governance: 3.3.8.1 Continuing Education/Training of Directors in 2019

	Name	Date	Host by	Training Title	Duration/Hr
3iing-Jye Lee	4)	2019.11.14	Taiwan Corporate Governance Association	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	3.0
Biing-Jye Lee		2019.11.14	Taiwan Corporate Governance Association	Mergers and Acquisitions Strategy and Evaluation	3.0
hih-Yuan Cl	nen	Chih-Yuan Chen 2019.08.07	Taiwan Corporate Governance Association	How Taiwan-funded enterprises respond to and manage the huge risks of the China-US trade war	3.0

Duration/Hr	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Training Title	Training for Directors and Senior Officers in Preventing Money Laundering and Fighting	The 8th Annual Chinese Family Business Forum	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	Mergers and Acquisitions Strategy and Evaluation	ESG Investment Promotion Forum	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	Mergers and Acquisitions Strategy and Evaluation	Corporate legal risk and crisis management	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	Mergers and Acquisitions Strategy and Evaluation	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	Mergers and Acquisitions Strategy and Evaluation	Legal Liability and Case Study of Short-term and Insider Trading	Corporate governance and corporate sustainability	Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of	Mergers and Acquisitions Strategy and Evaluation
Host by	KPMG Advisory Services Co., Ltd.	Taiwan Institute of Directors	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Stock Exchange Corporation	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association	Taiwan Securities Association	Taiwan Academy of Banking and Finance	Taiwan Corporate Governance Association	Taiwan Corporate Governance Association
Date	2019.08.16	2019.11.12	2019.11.14	2019.11.14	2019.05.07	2019.11.14	2019.11.14	2019.12.24	2019.11.14	2019.11.14	2019.11.14	2019.11.14	2019.08.08	2019.08.28	2019.11.14	2019.11.14
Name	Chih-Yuan Chen	Chih-Yuan Chen	Nan Yang Wu	Nan Yang Wu	Chin-Yung Fan	Chin-Yung Fan	Chin-Yung Fan	Chin-Yung Fan	Wei-Min Sheng	Wei-Min Sheng	Feng-Shang Wu	Feng-Shang Wu	Chi-Yen Liang	Chi-Yen Liang	Chi-Yen Liang	Chi-Yen Liang
Title	Director	Director	Director	Director	Director	Director	Director	Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director	Independent Director

Duration/Hr	3.0	2.0 3.0		STOP NO.	isitions
Training Title	2019 Prevention of Insider Trading Conference	Realizing the value of corporate mergers and acquisitions	Discussion on Integration Issues and Establishment of	Discussion on Integration Issues and Establishment of Mergers and Acquisitions Strategy and Evaluation	Discussion on Integration Issues and Establishment of Mergers and Acquisitions Strategy and Evaluation Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of
Host by	Securities & Futures   20 Institute	Taiwan Corporate Re	Governance AssociationI		
Date	2019.05.03	2019.11.14		2019.11.14	
Name	Yu-Te Houng	Yu-Te Houng		Yu-Te Houng	Yu-Te Houng Wei-Kuo Chen
Title	Independent Director	Independent	Director	Director Independent Director	Director Independent Director Independent Director

Note: All of the active directors have completed the continuing education of the hours required under the "Directions for the Implementation of Continuing Education for Directors and Supervisors of TWSE/TPEx Listed Companies."

3.3.8.2 Continuing Education/Training of Management in 2019

Duration/Hr	3.0			6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Training Title	Responsibilities and challenges of Corporate Governance Officer			The common practice training for Competent authorities requires enterprises to set up auditing compliance with	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees"	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection  Realizing the value of corporate mergers and	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection  Realizing the value of corporate mergers and acquisitions-Discussion on Integration Issues and	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection  Realizing the value of corporate mergers and acquisitions—Discussion on Integration Issues and Establishment of Management Mechanism after Enterprise	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection  Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of Management Mechanism after Enterprise Merger and Acquisition	The common practice training for Competent authorities requires enterprises to set up auditing compliance with "independent directors" and "audit committees".  The impact of the new "Labor Incident Law" on enterprises and the practice of legal compliance inspection  Realizing the value of corporate mergers and acquisitionsDiscussion on Integration Issues and Establishment of Management Mechanism after Enterprise Merger and Acquisition  Mergers and Acquisitions Strategy and Evaluation
Host by	nvestor Relations											
	Taiwan Investor Relations Resp Institute Office			Accounting Research and The Development Foundation requ								
	Chang 2019.07.29		,	Chang 2019.10.21								
Name	Shih-Shien Chang		Shih-Shien Chang	JIIII-JIIIO		Shih-Shien Chang	Shih-Shien Ch	Shih-Shien Chang Shih-Shien Chang	Shih-Shien Chz	Shih-Shien Chr	Shih-Shien Chz	Shih-Shien Chang Shih-Shien Chang Shih-Shien Chang
Title	*	Accounting Officer	Company	Governance &	Governance & Accounting Officer	શ્ર શ્ર	ing &	<b>২</b> ২	ing & wore word with a word word word word word word word word	ing & which & which we want to be with the way of the which will be with the way of the will be with the way of the way o	nnce & hng y y hng who & y y hng y y hng y y hng who & hng	ing & Note & Not

Duration/Hr	12.0	12.0	0.9	0.9
Training Title	the Continuing Education Course for the Accounting Supervisor from Issuer or Securities Dealer	the Continuing Education Course for the Accounting Supervisor from Issuer or Securities Dealer	Fraud Risk Audit Practice and Management	Internal audit staff practical issues on compliance with the laws of "Information Security" and "Personal Privacy"
Host by	Accounting Research and Development Foundation	Accounting Research and Development Foundation	The Institute of Internal Auditors-Chinese Taiwan	Accounting Research and Development Foundation
Date	$2019.12.09 \sim$ 2019.12.10	$2019.12.23 \sim$ 2019.12.24	2019.03.19	2019.06.25
Name	Shih-Shien Chang	Tao-jung Lin	Tzu-Hsiang Tai	Tzu-Hsiang Tai
Title	Company Governance & Accounting Officer	Acting Accounting Officer	Internal Audit Officer	Internal Audit Officer

Securities Firms, and Securities Exchanges, Regulations Governing Establishment of Internal Control Systems by Public Companies, and Article 29 of the Company's corporate governance best-practice principles related to continuing education requirements. The accountants engaged in preparation of financial Note1: Said persons meet Regulations Governing the Qualification Requirements and Professional Development of Principal Accounting Officers of Issuers, statements shall also take the relevant continuing education for 6 hours or more each year.

approval of the Board of Directors on March 14, 2019, and Mr. Shih-Shien Chang was appointed to hold the position as the Corporate Governance Officer concurrently. All of the staff dedicated in processing related affairs hold the experience in holding the position as the management at the legal affairs, finance, shareholders service or corporate governance units in securities, financial and futures firms or public companies for at least three years, which afford to Shih-Shien Chang attend the continuing education related to corporate governance for 18 hours within one year after he is appointed, and then for 12 hours The Company's "Corporate Governance Best-Practice Principles" were passed by the Board of Directors on August 6, 2015, and Mr. Shin-Shien Chang has held the position as the Corporate Governance Officer concurrently until now. Meanwhile, the Company set the corporate governance unit officially upon their effective exercise of duties about corporate governance free from any conflict of interest or violations of the internal control system. Mr. each year thereafter. The status shall be disclosed on the Company's official website. Note2:

3.3.8.3 Status of liability insurance maintained by EPISTAR for its directors and officers

Objects	Company	Amount	Duration
All Directors	Insurance Company of North	USD \$15,000,000	August 25, 2018 ~ August
	America, Taiwan Branch		25, 2019
All Directors	Insurance Company of North	USD \$20,000,000	August 25, 2019 ~ August
	America, Taiwan Branch		25, 2020

Note: The motion for the insured value, coverage, and premium of the renewed directors'/supervisors' liability insurance was submitted to the Board of Directors on November 14, 2019.

- 3.3.9 Implementation of Internal Control System
- 3.3.9.1 Statement of Declaration on Internal Control System: See Appendix 1.1 (Page 171).
- 3.3.9.2 Where a CPA has been hired to carry out a special audit on the internal control system, furnish the CPA audit report: None.
- 3.3.10 For the most recent fiscal year or during the current fiscal year up to the date of printing of the annual report, disclose any sanctions imposed in accordance with the law upon the Company or its internal personnel. Sanctions imposed by the Company upon its internal personnel for violations of internal control system provisions, principal deficiencies, and the state of any efforts to make improvements:

The Board of Directors resolved on November 12, 2018 to repurchase the treasury stock and transfer the same to employees. The buyback period started from November 13, 2018 to January 12, 2019. However, because the personnel dedicated to order placement wasn't familiar with the operation and operated negligently, the order was placed in the stock exchange by 9:00AM on November 16, 2018 and, therefore, breached Article 28-2 of the Securities and Exchange Act. As a result, the Company was fined NT\$240,000 by Securities and Futures Bureau of FSC on March 13, 2019. Notwithstanding, the Company bought back the treasury stock only in order to transfer the stock to employees, so as to maintain the shareholders' interest and right and retain talents for the Company, and definitely had no intent to manipulate or attempt to affect the stock price.

3.3.11 Major Decisions of Shareholders' Meeting and Board Meetings

During the 2018 calendar year or during the current fiscal year up to the date of printing of the annual report, major resolutions approved at Shareholder' Meeting and Board meetings and implementation thereof are summarized below:

- 3.3.11.1 Shareholder' Meeting
  - (1) Approved the 2018 Business Report and Financial Statements.
    - The Group's consolidated operating revenue was NT\$20,306,412 thousand, net operating loss NT\$678,843 thousand, and losses after tax of NT\$505,864 thousand in 2018. The loss was NT\$0.42 per share.
  - (2) Approved 2018 Deficit Compensation.
    - The Company's individual loss after tax was NT\$456,146 thousand in 2018, which was covered by the undistributed earnings for the previous years, NT\$71,003 thousand, Appropriated Retained Earnings, NT\$385,142 thousand. After that, the accumulated loss-ending was NT\$0.
  - (3) To elect 9 directors of the 10<sup>th</sup> term of the Board of Directors (including 5 independent directors). The Board consists of a majority of independent directors.
  - (4) Ratification of the allocation of capital surplus to shareholders in cash.

The capital surplus at NT\$0.3 per share.

- (5)Approved the amendments to "Articles of Incorporation."

  The resolution shall be fully implemented and the revised regulation shall be uploaded to the company's official website.
- (6)Approved the amendments to "Acquisition or Disposal Procedures of Asset." The resolution shall be fully implemented and the revised regulation shall be uploaded to the company's official website and M.O.P.S..
- (7)Approved the amendments to "Procedures for Loaning Funds to Other Parties." The resolution shall be fully implemented and the revised regulation shall be uploaded to the company's official website and M.O.P.S..
- (8)Approved the amendments to "Procedures for Endorsements and Guarantees." The resolution shall be fully implemented and the revised regulation shall be uploaded to the company's official website and M.O.P.S..
- (9)Approved the issuance of new common shares for cash to sponsor issuance of the global depositary receipt and/or issuance of new common shares for cash in private placement.
  - Approved the issuance of no more than 120 million common shares, provided that the motion has not yet been executed as no investors were found before the date of publication of the annual report.
- (10) Approved of releasing the newly elected directors from the non-competition restrictions.

Name	Positions in Other Companies	Engage Business
Biing-Jye Lee	The director of Epicrystal	Production and sales of Light-emitting diode
	Corporation (ChangZhou) Ltd.	epi wafers and chips.
	The director of Kaistar Lighting	Production and sales of Light-emitting diode
	(Xiamen) Co., Ltd.	epi wafers, chips, packages, and modules.
	The director of FormoLight	LED display system and solution provider.
	Technologies, Inc.	
	The Chairman of Unikorn	III-V Semiconductor Foundry business.
	Semiconductor Corporation	
Chih-Yuan Chen	The director of Nan Ya Photonics Inc.	LED lighting applications.
Nan-Yang Wu	The director of EDISON Opto	The manufacturer and sales of LED
	Corporation	packaging.
	The director of ProLight Opto	The manufacturer and sales of LED
	Technology Corporation	packaging.
	The director of Wafer Works	Semiconductor / IC Manufacturing (Silicon
	Corporation	Wafer supplier for Semiconductor)
	The director of GaN Ventures Co.,	Investment & sales of electronic
	Limited	components.
	The director of GV Semiconductor	Research and design of Semiconductors and
	Inc.	seller of technology components.
	The director of APT Electronics Co	R&D, production, sell of Light emitting
	Ltd.	diode (LED) and Lighting system.
Chin-Yung Fan	The director of Luxlite (Shenzhen)	Sales of Light-emitting diode chips.
	Corporation Limited	
	The director of LEDOLUX Sp. Zo.	Production and sales of Light-emitting diode
	O.	for lighting products
	The director of Jiangsu Canyang	Production and sales of Light-emitting diode
	Optoelectronics Ltd.	epi wafers and chips.
	The director of Te Opto Corporation	Production and sales of Light-emitting diode
		epi wafers and chips.

3.3.11.2 Board meetings

3.3.11.2 Boar Date		Major Resolutions	Review on status
2019.03.14	(1)	Approved 2018 financial report and business	The Company assigned the
		report.	corporate governance unit and
	(2)	Approved 2018 Loss make-up proposal.	appointed one Corporate
	(3)	Allocation of capital surplus to shareholders in	Governance Officer, and the
		cash.	Board of Directors of 10 <sup>th</sup>
	(4)	Resolved to discontinue the motion for issuance	term increased the number of
		of common shares in private placement	independent directors as 5
		approved at the general shareholders' meeting	independent directors, a
	(5)	2018.	majority of the whole director;
	(5)	Approved the issuance of new common shares	due to family factors,
		for cash to sponsor issuance of the global depository receipt and/or issuance of new	Ming-Jiunn Jou applied for retirement on April 30, 2019;
		common shares for cash in private placement.	in 2019, the proportion of
	(6)	Approved the amendments to "Articles of	remuneration to directors and
	(0)	Incorporation" in part.	employees remained 2% and
	(7)	Approved the amendments to "Procedures for	15%, respectively. The
	(1)	Loaning Funds to Other Parties", "Procedures	competition engaged in by the
		for Endorsements and Guarantees",	managerial officers was
		"Acquisition or Disposal Procedures of Assets",	posted on the M.O.P.S and the
		"Rules for the Procedures of the Board of	Company's website. The other
		Directors' Meeting" and "Corporate	matters were executed as per
		Governance Best Practice Principles" in part,	the resolution made at the
		and abolishment of the "Regulations Governing	general shareholders' meeting
		Long-term/Short-term Investment".	on June 20, 2019.
	(8)	Approved the time, location and cause of the	
		general shareholders' meeting 2019.	
	(9)	Approved the motion for election of 10 <sup>th</sup> term	
		directors and candidates for director nominated	
	(10)	by the Board of Directors.	
	(10)	Motion for termination of the non-competition restrictions on the Company's new directors of	
		10 <sup>th</sup> term.	
	(11)	Permitted the Company's managers to hold	
	(11)	another position concurrently and engage in	
		competition.	
	(12)	Approved the donation of proceeds from	
	()	disposition of the equity in Crystalrich (Hong	
		Kong) Co., Limited to Episky Corporation	
		(Xiamen) Ltd., a company wholly owned by the	
		Company.	
	(13)	Approved the Statement of Declaration on	
		Internal Control System 2018.	
	(14)	Approved the application for endorsement of	
	/4 =:	facility granted by bank to the subsidiary.	
	(15)	Approved the application with financial	
		organization for renewal of the facility and	
		increase in and renewal of derivatives trading	
	(16)	facility. Established the "Pagulations Governing	
	(10)	Established the "Regulations Governing  Patirement of Employees Holding Positions as	
		Retirement of Employees Holding Positions as Managers and Directors Concurrently."	
	(17)	Ming-Jiunn Jou filed a retirement application.	
	(1/)	ranig-arumi aou meu a remement appheation.	

Date	Major Resolutions	Review on status
	(18) Approved the motion for remuneration ratio to the Company's directors and employees 2019.	
	(19) Approved designation of the Corporate	
	Governance Officer.	
2019.05.06	(20) Approved managerial officers' raise 2019.	Yana dan anda dan anan anda anan
2019.03.00	<ol> <li>Approved 2019 financial report of Q1.</li> <li>Approved amendment to proposed offset of the 2019 Accumulated Deficit Offset Table.</li> <li>Approved amendments the Company's "Rules of the Board of Directors' Meeting" and "Procedure for Transactions with Related Parties and Group Affiliates."</li> </ol>	Implemented in accordance with Board resolutions.
	(4) Approved the total amount of the Company's fund which was lent to the subsidiary, Episky Corporation (Xiamen) Ltd., shall not exceed RMB\$200 million in total (or the equivalent amount in USD)	
	<ul> <li>(5) Approved the application for endorsement of facility granted by bank to the subsidiary.</li> <li>(6) Approved the application with financial organization for increase in and renewal of derivatives trading facility.</li> </ul>	
2019.06.20	<ul> <li>(1) Election of the 10<sup>th</sup> chairman.</li> <li>(2) Appointment of members of the 4<sup>th</sup> remuneration committee.</li> </ul>	Biing-Jye Lee renewed the chairman of the company, and appointed members of the 4th remuneration committee: Director Wei-Min Sheng, Director Feng-Shang Wu, and Director Chi-Yen Liang, from June 20, 2019 to June 19, 2022.
2019.08.08	<ol> <li>(1) Approved 2019 financial report of Q2.</li> <li>(2) No offset 2019 Q2 loss.</li> <li>(3) Approved the evaluation on independence, eligibility, and contents of service and remuneration 2019 about appointment of the CPAs, Ya-Huei, Cheng and Chin-Cheng, Hsieh.</li> <li>(4) Permitted the Company's managers to hold another position concurrently and engage in competition.</li> <li>(5) Amendments to "Statement of Declaration on Internal Control" in part.</li> <li>(6) Approved the application for endorsement of facility granted by bank to the subsidiary.</li> <li>(7) Approved the total amount of the Company's fund which was lent to the subsidiary, Episky Corporation (Xiamen) Ltd., and Unikorn Semiconductor Corporation, respectively shall not exceed RMB\$100 million (or the equivalent amount in USD), and TWD\$300 million in total.</li> <li>(8) Approved the application with financial organization for increase in and renewal of derivatives trading facility.</li> </ol>	The allocation ratio for directors' compensation remained at 2% while all other matters shall be implemented in accordance with Board resolutions.

Date	Major Resolutions	Review on status
	(9) Approved the allocation of remuneration to	
	directors in 2019.	
	(10) Approved the motion for remuneration to the	
	Company's directors.	
2019.11.14	(1) Report on renewal of directors'/supervisors'	Implemented in accordance
	liability insurance.	with Board resolutions.
	(2) Approved 2019 financial report of Q3.	
	(3) No offset 2019 Q3 loss	
	(4) Approved the audit plan 2020.	
	(5) Approved the application with financial	
	organization for increase in and renewal of	
2019.12.12	derivatives trading facility.	Insulantadia accordance
2019.12.12	(1) Report the implementation of corporate social responsibility and integrity management.	Implemented in accordance with Board resolutions.
		with Board resolutions.
	(2) Report on corporate governance. (including stakeholder identification, issues of concern,	
	communication channels and method of	
	response, as well as the operation of the	
	whistleblower mechanism)	
	(3) Approved 2020 business plan and budget.	
	(4) Approved the application with financial	
	organization for renewal of the facility.	
	(5) Approved the motion for managerial officers'	
	raise 2020.	
2020.02.26	(1) Approved 2019 financial report and business	The allocation ratios for
	report.	directors and employees'
	(2) Approved 2019 Loss make-up proposal.	compensation in 2020 will
	(3) Approved 2020 capital expenditure.	remain unchanged at 2% and
	(4) Resolved to discontinue the motion for issuance	15% respectively. All other
	of common shares in private placement	matters shall be implemented
	approved at the general shareholders' meeting 2019.	in accordance with Board resolutions.
	(5) Approved the issuance of new common shares	resolutions.
	for cash to sponsor issuance of the global	
	depository receipt and/or issuance of new	
	common shares for cash in private placement.	
	(6) Motion for termination of the non-competition	
	restrictions on the Company's directors.	
	(7) Approved the time, location and cause of the	
	general shareholders' meeting 2020.	
	(8) Approved the amendments to "Rules of the	
	Board of Directors' Meeting", "Audit	
	Committee Charter", "Rules Purview of	
	Independent Directors", "Corporate Governance	
	Best Practice Principles", "Corporate Social	
	Responsibility Best Practice Principles",	
	"Ethical Corporate Management Best Practice	
	Principles" and "Procedures for Preventing Insider Trading" in part.	
	(9) Permitted the Company's managers to hold	
	another position concurrently and engage in	
	competition.	
	<b>r</b>	

Date	Major Resolutions	Review on status
	(10) Approved the amendments to "Regulations	
	Governing the Preparation of Financial	
	Reports" in part.	
	(11) Approved amendments to "Statement of	
	Declaration on Internal Control" in part.	
	(12) Approved the Statement of Declaration on	
	Internal Control System 2019.	
	(13) Approved the evaluation on independence,	
	eligibility, and contents of service and	
	remuneration 2020 about appointment of the	
	CPAs, Ya-Huei, Cheng was replaced by	
	Tien-Yi, Li.	
	(14) Approved the motion for remuneration ratio to	
	the Company's directors and employees 2020.	
	(15) Approved managerial officers' raise 2020.	

- 3.3.12 Major Issues of Record or Written Statements Made by Any Director Dissenting to Important Resolutions Passed by the Board of Directors during the 2019 Calendar Year and as of the Date of this Annual Report: None.
- 3.3.13 Resignation or Dismissal of Chairman, General Manager, and Heads of Accounting, Finance, Internal Audit, Corporate Governance Officer and R&D during the 2018 Calendar Year and as of the Date of this Annual Report: None.

#### 3.4 Audit Fee

Unit: NT\$ thousand

Aggunting		Audit		Non-audit Fee					
Accounting Firm	Name of CPA	Fee	System	Company	Human	Others	Subtotal	Audit Period	
THIII		ree	Design	Registration	Resource	(Note 1)	Subtotal		
PricewaterhouseC oopers, Taiwan	Cheng, Ya-Huei and Chih-Cheng, Hsieh	14,120	0	0	0	1,700	1,700	2019.01.01 ~ 2019.12.31	

Note 1: The professional service fees for TP and laws & taxation consulting, NT\$1,700 thousand.

Note 2: When the Company changes its accounting firm and the audit fees paid for the fiscal year in which such change took place are lower than those for the previous fiscal year, the amounts of the audit fees before and after the change and the reasons shall be disclosed: NA

Note 3: When the audit fees paid for the current fiscal year are lower than those for the previous fiscal year by 10% or more, the reduction in the amount of audit fees, reduction percentage, and reason(s) therefore shall be disclosed: NA

#### 3.5 Replacement of CPAs

#### 3.5.1 Regarding the former CPA

Replacement Date		February 26, 2020				
	According to Article 29 of the Corporate Governance Best Practice					
Danlacament reasons and	Principles, which requires CPA's independence, and in order to be in					
Replacement reasons and explanations	line with	the tra	nsfer of CPAs with	in Pricewaterhouse	Coopers, Taiwan,	
explanations	as of Q1	of 202	20, Ya-Huei, Cheng	, CPA and Chin-C	heng, Hsieh, CPA	
	were repl	aced b	y Tien-Yi, Li, CPA a	and Chin-Cheng Hs	sieh, CPA.	
Describe whether the Company	Status	The Company				
terminated or the CPA did not	Terminat	ion of a	appointment	NA	NA	
accept the appointment	No longer accepted (continued) appointment			NA	NA	
Other issues (except for unqualified				I		
issues) in the audit reports within	None					
the last two years						
			Accounting princi	ples or practices		
	Yes		Disclosure of Fina	ancial Statements		
D'66	Yes		Audit scope or ste	ps		
Differences with the company			Others			
	None	✓				
	Remarks	/specify	y details: None			
Other Revealed Matters	None					

#### 3.5.2 Regarding the former CPA

Name of accounting firm	PricewaterhouseCoopers, Taiwan
Name of CPA	CPA Tien-Yi, Li and CPA Chin-Cheng, Hsieh
Date of appointment	February 26, 2020
Consultation results and opinions on accounting	
treatments or principles with respect to specified	None
transactions and the company's financial reports	None
that the CPA might issue prior to the engagement.	
Succeeding CPA's written opinion of	None
disagreement toward the former CPA	Tione

- 3.5.3The content of the reply letter from the former certified public accountant: NA
- 3.6 Information on the Company's Chairman, President, or any managerial officer in charge of finance or accounting matters has in the most recent year held a position at the accounting firm of its certified public accountant or at an affiliated enterprise of such accounting firm: None.

3.7 Any transfer / pledge / Changes in Shareholding of Directors, Supervisors, Managers, and Major Shareholders holding a stake of greater than 10 percent

## 3.7.1 Changes in Shareholding of Directors, Supervisors, Managers, and Major Shareholders

Unit: Share

		20	19	January 1, 2020 ~ February 29, 2020		
Title	Name	Net Change in Shareholding	Net Change in Shares Pledged	Net Change in Shareholding	Net Change in Shares Pledged	
Chairman & CSO	Biing-Jye Lee	(700,000)	0	0	0	
Director	Chih-Yuan Chen	0	0	0	0	
Director	Shan-Chieh Chien	0	0	0	0	
Director	Nan Yang Wu	0	0	0	0	
Director &President	Chin-Yung Fan	0	0	0	0	
Independent Director	Wei-Min Sheng	0	0	0	0	
Independent Director	Feng-Shang Wu	0	0	0	0	
Independent Director	Chi-Yen Liang	0	0	0	0	
Independent Director	Yu-Te Houng	0	0	0	0	
Independent Director	Wei-Kuo Chen	0	0	0	0	
Vice President	Min-Hsun Hsieh	(24,000)	0	(6,000)	0	
Vice President	Jen-Chau Wu	0	0	0	0	
Vice President	Rong-Yih Hwang	0	0	(10,000)	0	
Vice President & CFO & Corporate Governance Officer	Shih-Shien Chang	0	0	0	0	
Vice President	Chen Ou	0	0	0	0	
Vice President	Ming-Da Jin	0	0	0	0	
Vice President	Lin-Tien Yang	0	0	0	0	
Vice President	Wei-Shih	(17,000)	0	0	0	
Senior Director	Li-Cheng Hung	(14,000)	0	(6,000)	0	
Senior Director	Feng-Sheng Qiu	0	0	0	0	
Senior Director	Yi-Chang Hong	0	0	0	0	

3.7.2 Stock Traded with Related Party

Name	Cause of Equity Transfer	Date	Trading Counterpart	Relationship between the trading counterpart and the Company, director, and shareholder with more than 10% shareholding	Shares	Trading Price (NTD)
Biing-Jye Lee	Disposition (gift)	2019.04.17	Chia-Ren Hu	Spouse	700,000	NA

3.7.3 Stock Pledged with Related Party: None.

#### 3.8 Relationship among the Top Ten Shareholders

	Name		t ing	Spouse a Minor Sharehol		EPISTAF Sharehold Nominee Arrangen	ding by	Name and Relationship between EPISTAR's Shareholders	
		Shares	%	Shares	%	Shares	%	Name	Relationship
1	Mercuries Life Insurance Co., Ltd.	28,418,000	2.61%	NA	NA	NA	NA	None	None
1	Chairman: Xiang-Yu Chen	0	0.00%	0	0.00%	0	0.00%	None	None
2	Merrill Lynch Intl-Main Trading-Fia	19,705,526	1.81%	NA	NA	NA	NA	None	None
3	Nomura International Co., Ltd.	19,698,000	1.81%	NA	NA	NA	NA	None	None
4	Cathay Life Insurance Co., Ltd.	19,404,803	1.78%	NA	NA	NA	NA	None	None
4	Chairman: Tiao-Kuei Huang	0	0.00%	0	0.00%	0	0.00%	None	None
5	Labor retirement fund (New system)	17,845,000	1.64%	NA	NA	NA	NA	None	None
6	Fubon Life Insurance Co., Ltd.	17,000,000	1.56%	NA	NA	NA	NA	None	None
0	Chairman: Ming-Xing Cai	0	0.00%	0	0.00%	0	0.00%	None	None
7	Vanguard Emerging Markets Stock Index Fund, A Series Of Vanguard International Equity Index Funds	16,260,605	1.49%	NA	NA	NA	NA	None	None
8	Vanguard Emerging Markets Stock Index Fund, A Series Of Vanguard International Equity Index Funds	14,835,180	1.36%	NA	NA	NA	NA	None	None
9	UBS Europe SE	14,736,018	1.35%	NA	NA	NA	NA	None	None
10	Tai Li Corp.	13,627,487	1.25%	NA	NA	NA	NA	None	None
10	Chairman: Hon-Gji Luo	0	0.00%	0	0.00%	0	0.00%	None	None

Note1: The stock transfer was not suspended before the date of publication of the annual report; therefore, said record date was intended for the quantity of shares held before the latest suspension of stock transfer (namely July 23, 2019).

# 3.9 The total number of shares and total equity stake held in any single enterprise by the Company, its directors and supervisors, managers, and any companies controlled either directly or indirectly by the Company

As of December 31, 2019

Long-term Investment	Ownership by EPISTAR		Ownership by Directors, Managers and Directly/Indirectly Owned Subsidiaries		Total Ownership	
	Shares	%	Shares	%	Shares	%
Lighting Investment Corp.	251,478,518	100.00	0	0.00	251,478,518	100.00
Epistar JV Holding (BVI) Co., Ltd.	48,278	100.00	0	0.00	48,278	100.00
Yenrich Technology Corporation	60,000,000	100.00	0	0.00	60,000,000	100.00
Full Star Enterprises Ltd.	8,660,000	100.00	0	0.00	8,660,000	100.00
GaN Ventures Co., Limited	13,886,743	59.02	1,157,229	4.92	15,043,972	63.94
SH Optotech Co., Ltd.	3,179,176	49.00	0	0.00	3,179,176	49.00
Nan Ya Photonics Inc.	18,806,694	40.80	1,135,430	2.46	19,942,124	43.26
Te Opto Corporation	920,000	40.00	0	0.00	920,000	40.00
Tekcore Co., Ltd	20,247,828 21.0		2,616,932	2.72	22,864,760	23.77
ProLight Opto Technology Corporation	5,800,000	8.52	30,001,234	44.08	35,801,234	52.60

As of December 31, 2019

Long-term Investment	Ownership EPISTAI	•	Ownership by Directors, Managers and Directly/Indirectly Owned Subsidiaries		Total Ownership		
	Shares	%	Shares	%	Shares	%	
iReach Corporation	7,000,000	100.00	0	0.00	7,000,000	100.00	
Unikorn Semiconductor Corporation	100,000,000	85.91	0	0.00	100,000,000	85.91	
Gan Force Corporation	1,063,000	64.31	0	0.00	1,063,000	64.31	

Note: EPISTAR's long-term investment using the equity method.

# 4. Capital Overview

#### 4.1 Capital and Shares

#### 4.1.1 Capitalization

Unit: k share / NT\$ thousand

	1	Authorized	Share Capital	Capit	al Stock	Remark		
Month/ Year	Issue Price (Per Share)	Shares	Amount	Shares	Amount	Sources of Capital	Capital Increase by Assets Other than Cash	Other (Note)
11/2017	10	1,300,000	13,000,000	1,088,701	10 88 / 014	Capital reduction for cancellation of treasury shares	None	2

Note 1: Said information refers to that available until the date of publication, Feburary 29, 2020.

Note 2: Chu-Shang-Tze No. 1060032105 dated November 29, 2017.

Unit: Share

Type of Stock	Authorized Sh	Authorized Share Capital (Listed Stock)				
Type of Stock	Outstanding shares (Note)	Unissued Shares	Total			
Common Stock	1,088,701,410	211,298,590	1,300,000,000			

Note: Said information refers to that available until the date of publication, including the treasury stock held by the parent company and subsidiaries, totaling 10,364,755 shares.

Shelf Registration: None.

#### 4.1.2 Composition of Shareholders

Type of Shareholders			Other Juridical Persons	Institutions and Natural	Domestic Natural Persons	Total
Number of Shareholders	5	31	244	301	129,992	130,573
Shareholding	28,426,000	78,206,001	100,221,954	167,716,327	714,131,128	1,088,701,410
Holding Percentage (%)	2.61	7.18	9.21	15.40	65.60	100.00

Note: The stock transfer was not suspended before the date of publication of the annual report; therefore, said record date was intended for the quantity of shares held and issued shares before the latest suspension of stock transfer (namely July 23, 2019).

#### 4.1.3 Distribution Profile of Share Ownership

#### 4.1.3.1 Common Share

Per Share Issue Price is NT\$10

Shareholder Ownership (Unit: Share)	Number of Shareholders	Ownership	Ownership (%)
1~999	36,796	6,740,100	0.62%
1,000~10,000	81,987	255,715,443	23.49%
10,001~20,000	6,367	97,018,187	8.91%
20,001~30,000	2,007	52,041,651	4.78%
30,001~50,000	1,588	63,947,812	5.87%
50,001~100,000	1,039	75,127,729	6.90%
100,001~200,000	425	60,857,736	5.59%
200,001~400,000	194	54,331,198	4.99%
400,001 600,000	61	30,006,476	2.76%

Per Share Issue Price is NT\$10

Shareholder Ownership (Unit: Share)	Number of Shareholders	Ownership	Ownership (%)
600,001~800,000	29	20,281,985	1.86%
800,001~1,000,000	12	10,960,564	1.01%
Over 1,000,001	68	361,672,529	33.22%
Total	130,573	1,088,701,410	100.00%

Note: The stock transfer was not suspended before the date of publication of the annual report; therefore, said record date was intended for the quantity of shares held and issued shares before the latest suspension of stock transfer (namely July 23, 2019).

#### 4.1.3.2 Preferred Share: None.

#### 4.1.4 Major Shareholders

Unit: share

Shareholders	Total Shares Owned	Ownership (%)
Mercuries Life Insurance Co., Ltd.	28,418,000	2.61%
Merrill Lynch Intl-Main Trading-Fia	19,705,526	1.81%
Nomura International Co., Ltd.	19,698,000	1.81%
Cathay Life Insurance Co., Ltd.	19,404,803	1.78%
Labor retirement fund (New system)	17,845,000	1.64%
Fubon Life Insurance Co., Ltd.	17,000,000	1.56%
Vanguard Totl International Stock Index Fund, A Series Of Vanguard Star Funds	16,260,605	1.49%
Vanguard Emerging Markets Stock Index Fund, A Series Of Vanguard International Equity Index Funds	14,835,180	1.36%
UBS Europe SE	14,736,018	1.35%
Tai Li Corp.	13,627,487	1.25%

Note: The stock transfer was not suspended before the date of publication of the annual report; therefore, said record date was intended for the quantity of shares held and issued shares before the latest suspension of stock transfer (namely July 23, 2019). It will be posted to the official website of the company after the date of stop transfer for shareholders at March 30, 2020.

#### 4.1.5 Market Price, Net Worth, Earnings, and Dividends Per Common Share

Unit: NTD

Item	Year	2018	2019	01/01/2020 ~02/29/2020
Market Price Per	Highest Market Price	57.60	34.85	36.00
	Lowest Market Price	22.80	21.00	28.85
Share	Average Market Price	39.52	28.19	33.26
Net Worth Per	Before Distribution	45.57	41.93	Note 4
Share	After Distribution	45.27	41.93	Note 4
Earnings Per	Weighted Average Shares (thousand shares)	1,084,686	1,078,425	Note 4
Share	EPS	(0.42)	(3.48)	Note 4

Unit: NTD

Year Item			2018	2019	01/01/2020 ~02/29/2020
	Cash Divide	nds	0.3	0	_
Dividends Per	Stock	Share Dividend	0	0	_
Share	Dividends	Capital Surplus stock dividend	0	0	_
	Accumulated Undistributed Dividend		0	0	_
Datama an	Price/Earning	Price/Earnings Ratio (Note 1)		(8.10)	_
Return on Investment	Price/Dividend Ratio (Note 2)		131.73	_	_
mvestment	Cash Divider	nd Yield (%)(Note 3)	0.76	_	_

Note 1: Price/Earnings Ratio = Average Market Price/ Diluted Earnings Per Share

Note 2: Price/Dividend Ratio = Average Market Price/Cash Dividends Per Share

Note 3: Cash Dividend Yield = Cash Dividends Per Share/Average Market Price

Note 4: As of the publication date of the annual report, the financial report for the first quarter of 2020 has not yet been completed, so it does not apply.

#### 4.1.6 Dividend Policy and Implementation Status

#### 4.1.6.1 Dividend Policy

In consideration of the Company's current and future development strategy, investment environment, funding need, and competition, domestically and overseas, as well as the shareholders' equity and capital adequacy ratio, the board of directors is authorized to set 50% of the earnings after tax to be allocated as stock dividends, unless in special circumstances, in which the cash dividends to shareholders shall be no less than 10% of the total stock dividends to be allocated.

#### 4.1.6.2 Proposed Distribution of Dividend

Unit: NTD

	Date for Board of	Shareholders Meeting		
Year	Directors to approve Distribution of Dividend	Cash Dividend	Capital Surplus (in cash)	Share Dividend
2019	February 26, 2020	\$0 (NT\$ 0 per share)	\$0 (NT\$ 0 per share)	\$0 (NT\$ 0 per share)

Note: Given the loss after tax 2019, no stock dividend was allocated.

#### 4.1.6.3 Expected dividend policy will have a significant change in circumstances:

Major increase in production by other LED companies, the US-China trade conflict, weaker-than-expected overall market demand and plummeting market prices impacted on the Company's profitability and led to two years of consecutive losses. To fund capital expenditures and maintain cash flow stability in 2020, the Board decided on February 26, 2020, that no share dividend will be disbursed in 2020. After the Company takes the Company's overview of operation into account, restain adequate cash and set aside 10% legal reserve or special reserve, the retained earnings, if any, will be allocated on a quarterly basis insofar as no special circumstances are required to be met. In the first three quarters, the dividends shall be allocated at 30%~40% of the earnings basically, and the total dividends to be allocated through the year shall remain 50%~60% of the earnings after tax for the given year. Meanwhile, the Board of Directors is authorized to resolve whether cash dividend shall be allocated from earnings, subject to the overiew of business in each quarter. The cash dividends for

any given quarter had scheduled to be allocated within 6 months upon approval of the meeting of the Board of Directors in next quarter.

- 4.1.7 Impact to 2020 Business Performance and EPS Resulting from Stock Dividend Distribution: Not applicable.
- 4.1.8 Remuneration to Directors and Profit Sharing Bonus to Employees

4.1.8.1 Information Relating to Employee Bonus and Directors' and Supervisors' Remuneration in the Articles of Incorporation

Item	Rang
Employee's Profit Sharing Bonus (Cash)	i.e. 10%~20% of the earnings of the given year, and 15% applies for the time being. Said employees' bonus will be distributed in shares or cash. The employees of EPISTAR's subsidiaries who fulfill specific requirements stipulated by the Board of Directors may be granted such bonus.
Remuneration to Directors (Cash)	2 % of annual profit as for the remuneration to directors. Directors may only receive the remuneration in cash.

Note1: The "annual profit" in first paragraph means the current year pre-tax profit (excluding other benefits or losses, such as the put option right, the call option rights, the conversion rights and the redeemed of overseas convertible bonds) before the deduction of the staff remuneration and director remuneration.

Note2: EPISTAR may, by a resolution adopted by a majority vote at a meeting of the Board of Directors attended by two-thirds of the total number of directors, distribute the aforementioned employees' and director's compensation and report to the stockholders' meeting for such distribution.

4.1.8.2 The basis for estimating the amount of remuneration to employees, directors and supervisors, for calculating the number of shares to be distributed as employee compensation, and the accounting treatment of the discrepancy, if any, between the actual distributed amount and the estimated figure, for the current period:

The Company estimated the amounts of the remuneration to employees and, directors and recognizes them in the profit or loss during the periods when earned for the years ended December 31, 2017 and 2018. The Board of Directors estimated the amount by taking into consideration the amendment of the Articles of Incorporation, government regulations and industry averages. If the Board of Directors resolves to distribute the remuneration to employees through stock, the number of stock distributed is calculated based on total remuneration to employees divided by the closing price of the day before the Board of Directors meeting. If the Board of Directors subsequently modifies the estimates significantly, the Company will recognize the change as an adjustment in the profit or loss in the subsequent period. The difference between the estimation and the resolution of the shareholders' meeting will be recognized in profit or loss in the subsequent year.

#### 4.1.8.3 2019 Remuneration to Directors and Employees' Profit Sharing Bonus

Unit: NT\$ thousands

Item	Board Resolution (February 26, 2020)
Remuneration to Directors (Cash)	0
Employee's Profit Sharing Bonus (Cash)	0
Total	0

Note: The proposed amount of the remuneration to employees, directors and supervisors is the same as the estimated amount of the year when the remuneration were recognized.

#### 4.1.8.4 2018 Remuneration to Directors and Employees' Profit Sharing Bonus

Unit: NT\$

Item	Actual Result (June 20,2019)	Board Resolution (March 14, 2019)	Variance	Cause of variance
Remuneration to Directors (Cash)	0	0	0	None
Employee's Profit Sharing Bonus (Cash)	0	0	0	None
Total	0	0	0	None

### 4.1.9 Buyback of Treasury Stock:

#### 4.1.9.1 Completed:

Batch Order	The 2nd Batch, 2018
Purpose of buy-back	Transfer to Employees
Timeframe of buy-back	November 13, 2018~January 12, 2019
Price range (Note 1)	NT\$25~NT\$40
Class, quantity of shares buy back	7,800,000 shares
Value of shares bought-back (in NT\$ thousands)	190,327
Ratio of repurchases to planned quantities (%)	52.00%
Shares sold/transferred	0 share
Accumulated number of company shares held	7,800,000 shares
Percentage of total company shares held (%) (Note 2)	0.72%

Note 1: In the event of the buyback price range is less than the minimum price, NT\$25, the buyback may be continued.

4.1.9.2 Still in Execution: None.

4.2 Issuance of Corporate Bonds: None.

4.3 Preferred Shares: None.

#### 4.4 Issuance of Overseas Depositary Shares

Issuing Date	September 22, 2009
Issuance and Listing	Bourse de Luxembourg
Total Amount (US\$)	351,000,000
Offering Price Per GDR (US\$)	13.00
Units Issued	27,000,000
Underlying Securities	EPISTAR Common Shares from Selling Shareholders
Common Shares Represented	135,000,000
Rights and Obligations of GDR Holders	Same as those of Common Share Holders
Trustee	Not Applicable
Depositary Bank	Citibank, N.A.
Custodian Bank	Citibank, N.A. – Taipei Branch
GDRs Outstanding	As of February 29, 2020, total number of outstanding GDRs was 6,023
Apportionment of Expenses for Issuance and Maintenance	The issuance-related expenses were borne by the issuer and underwriter, while the expenses incurred during the surviving period were borne by the Company.
Terms and Conditions in the Deposit Agreement and Custody Agreement	See Deposit Agreement and Custody Agreement for Details

Note 2: Calculated according to issued shares on March 14, 2019 (1,088,701,410 shares).

Cl D.		High	5.61
	2019	Low	3.36
Closing Price Per GDR		Average	4.25
(US\$)	01/01/2020	High	5.97
	01/01/2020 ~ 02/29/2020	Low	4.82
	0212912020	Average	5.51

- 4.5 Status of Employee Stock Option Plan: None.
- 4.6 Status of New Restricted Employee Shares: None.
- 4.7 Status of New Shares Issuance in Connection with Mergers and Acquisitions: None.
- 4.8 Financing Plans and Implementation: None.

# 5. Operational Highlights

#### 5.1 Business Activities

#### 5.1.1 Business Scope

#### 5.1.1.1 Main areas of business operations

Research, development, manufacturing, and sale of the following products:

- (1) AlGaInP Epi Wafer & Chips
- (2) AlGaAs Epi Wafer & Chips
- (3) InGaN Epi Wafer & Chips
- (4) PHEMT
- (5) InP-based HBT
- (6) GaAsP Wafer & Chips
- (7) GaP Wafer & Chips
- (8) AlGaInN Wafer & Chips
- (9) GaInAsP Wafer & Chips
- (10) Optoelectronic detection components
- (11) Wafer for microwave communications
- (12) Wafer & Chips for fiber-optics communications
- (13) LED and its mold
- (14) System and application parts for the above products
- (15) Phosphor powders

#### 5.1.1.2 Revenue distribution

Consolidated Entities Unit: NT\$ thousands

Item	Total Sales in Year 2019	(%) of Sales
Chip	14,318,758	89.72
Epi Wafer	163,538	1.02
The Others	1,477,535	9.26
Total	15,959,831	100.00

Note: Based on IFRS

#### 5.1.1.3 Current Products (Services)

Epistar's current main commodities are AlGaInP, Epi Wafer, Chip, InGaN Epi Wafer & Chip and AlGaAs Epi Wafer & Chip. According to different emission colors and materials, its product range as follows:

Color of emitting light	Material	Product Category.
High Brightness Red	AlGaInP	Epitaxial Wafer, Die
High Brightness Orange	AlGaInP	Epitaxial Wafer, Die
High Brightness Amber	AlGaInP	Epitaxial Wafer, Die
High Brightness Yellow Green	AlGaInP	Epitaxial Wafer, Die
High Brightness Blue	InGaN	Epitaxial Wafer, Die
High Brightness Green	InGaN	Epitaxial Wafer, Die
Ultra Violet	InGaN	Epitaxial Wafer, Die
Infrared LED	AlGaAs	Epitaxial Wafer, Die
Infrared VCSEL	AlGaAs	Epitaxial Wafer, Die (Foundry)

#### 5.1.1.4 Plan of new product (service) development

- (1) Proximity sensor/emitting diode-related products for portable and wearable devices
- (2) LED chip products for facial recognition and biometric detection adapted in portable device /notebook
- (3) Infrared LED chip products for in-cabin driver's awareness sensing system
- (4) LED chip products with SpO<sub>2</sub> measurement function adapted in portable and wearable device
- (5) LED chip products for industrial automation equipment /Robot sensing
- (6) Developing ultra-high brightness and ultra-high current density vertical type red, blue and green LED dies for projector application
- (7) Ultra-high wall plug efficiency LED chip for horticultural lighting application
- (8) Ultra-high brightness red and yellow LED chip products for special lighting applications
- (9) Ultra-high efficiency red LED chip products of all chip size for automotive tail lamp
- (10) New small-chip design for more compact and smaller size of package
- (11) LED chip products for electronic sports application
- (12) Ultra-high brightness and current-density LED chip products for projector application
- (13) Developing near-infrared LED new products with wavelength ranging from 1100nm to 1600nm
- (14) Developing high efficiency new blue/green horizontal product
- (15) Developing high efficiency blue LED for high efficiency lighting application
- (16) Developing low-current-driven LED dies for display application
- (17) Develop high brightness LED wafer for wide color gamut display.
- (18) Develop high brightness LED wafer for identification of self-driving car.
- (19) Develop high performance InGaN/GaN blue and green 6 inch Epiwafer for high efficiency LED blue and green chips.
- (20) Developing green and longer-wavelength blue LED for outdoor lighting project
- (21) The high efficiency and quality Mini LED development for display.
- (22) Developing the high efficiency and quality mini LED for BLU of mobile phone and tablet
- (23) The high efficiency and quality Mini LED development for TV BLU
- (24) The high performance and reliable flip-chip GaN LED
- (25) The high quality vertical UV LED development application
- (26) The mini flip-chip LED development for ultra-thin cell phone panel
- (27) The high-end LED product for flash light module
- (28) The high quality multi-cell flip-chip LED development for TV BLU application
- (29) The high reliability multi-cell flip-chip LED development for general lighting application
- (30) Developing UV-C LED for new application in Deep UV region
- (31) Developing High Power Edge Emitting Blue Laser Diode
- (32) Development of new LED CSP for ultra-thin and high contrast LCD BLU
- (33) Development of white LED CSP for high-end flash applications
- (34) Development of high efficiency CSP technique for lighting application
- (35) Development of LED CSP for high color gumut BLU applications
- (36) Development of LED CSP for Direct type BLU with high color gumut
- (37) Development of high voltage white LED CSP
- (38) Development of high reliable white LED CSP for Automotive application

- (39) Development of new product of UV CSP
- (40) Development of GaN-on-Si power device for LED general lighting application
- (41) Developing high voltage IoT IC with HEMT
- (42) Development of switching mode power supply for adapter under 100W
- (43) System integration technology for fine pitch display
- (44) Develop the epitaxy & process technology of small power level VCSEL for the proximity sensor of mobile phone foundry service.
- (45) Develop the epitaxy & process technology of high power level VCSEL for facial recognition and 3D reconstruction of mobile phone foundry service.
- (46) Develop the epitaxy & process of 25G VCSEL & 10G APD for emission & receiver of optical communication.
- (47) Develop the wafer process technology of Micro LED for next generation display foundry service.
- (48) Develop the wafer process technology of EEL 650nm for industrial application foundry service.
- (49) Develop the epitaxy & process technology of VCSEL flip-chip foundry service.

#### 5.1.2 Industry Overview

#### 5.1.2.1 The current status and development of the industry

It's been 30 years since the LED industry developed and grew from 1990. The LED components were used firstly as indicators in home appliances, then in cell phone starting 2002, Netbook BLU from 2007... etc. Since 2010 LED had become the only light sources BLUs of every Notebook and Tablet. With Samsung's leading launch of Edge-lit LED BLU LCDTV in 2009, and Direct-lit LED BLU LCD in 2012, the LEDs not only had reached penetration rate of 90% in TV application since 2014, but also support the LCD display industry for superior design and performance.

LEDs also penetrate into other applications including architecture lighting, outdoor lighting, and indoor lighting due to its advantages of high efficacy, low power consumption, low greenhouse emission, mercury-free, and coming in multi-color. In terms of efficiency, we expect LEDs to continue to improve annually, which already met the US DOE's 2015 target of 150 Lm/W and 200 Lm/W of 2020 too. Meanwhile the DOE's "\$10/kLm cost target in 2015 to challenge CFLs" was also met in the second half of 2014 by both LED's technology innovation and supply chain's integration and co-work. With the industry's efforts and government's policies on carbon-emissions, incandescent-banning, street-lamp updating, the worldwide leading lighting branders are expecting LED lighting penetration to reach 70% in 2020. On the basis of the ongoing promotion of the public projects concerning the policies on incandescent light ban, carbon emission and street lighting replacement from different governments, LED lighting is now one of the most important mega trends globally.

The fast-turn-on property of LED lights is very important for automotive lighting & signaling, and so LEDs were adopted in the Center-High-Mount-Stop-Lamp (CHMSL) in the late-1980s. Nowadays, HB LEDs are also used as indicators and lightings both internally and externally, examples like dash board indicators, CHMSL, tail lamp, turning lamp, daytime-running-light, headlight...etc. The All-LED trend is getting popular in both premium and mainstream models.

The high brightness and high purity properties make LEDs the best fit for the indoor and outdoor signage market. The large size RGB LED digital signage displays are used in outdoor commercials, event broadcasting, traffic controls & notifications...

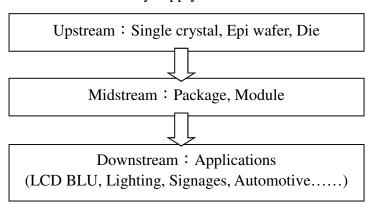
and keep expanding. Meanwhile, fine-pitch high-density LED displays provide premium picture quality due to its high pixel density, detailed greyscale, high contrast, and seamless screen. These superior properties make it a better choice over LCDs, PDPs and DLPs in the military and governmental control-room, broadcasting center, event commercials...etc.

Moreover, LEDs also make many special applications possible including horticulture, bio-medicine, security & surveillance, wireless communication, smart-home lighting, etc. The superior properties of LEDs like small-size, multi-wavelength, fast response time, and better efficacy make it not only fit in many applications, but also help create more possibilities.

#### 5.1.2.2 Upstream Downstream supply chain relation

After 20 years of development, Taiwan's LED industries are now structured into three segments. We can plot it as below including Single Crystal / Epi Wafer / Die the Upstream, package and module assembly the mid-stream, and all kinds of application in the downstream.

LED industry supply chain structure



#### 5.1.2.3 Application developing trend of LED products

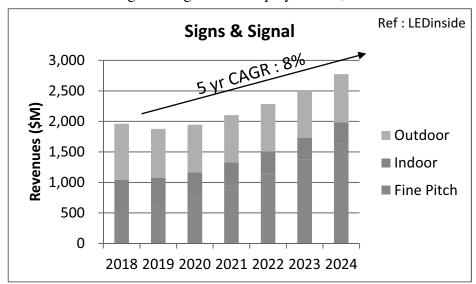
#### (1) Indicators and LED Display

"Ultra-High-Brightness" and "Full-color" are major trends of Visible-LED development. UHB LEDs can provide significantly better contrast and readability for outdoor application like traffic signs, indicators in vehicles, and outdoor LED display under sunlight conditions.

LED displays are an essential medium for bringing real-time information and conveniences to people in all kinds of commercial activities like the Olympic series from 2008, many World Expos, and FIFA World cups. The broad adaption brings fabulous video performances that attract more viewing audiences. As the technology and cost evolves, we can expect the Display application to keep the growing trend.

As the SMD and module technology improved, outdoor LED displays have crossed the 5mm bottle-neck to allow for designs like those with a 3.x and 4.x mm pitch. Moreover, <1.0mm pitch indoor displays are also in production. The indoor applications have evolved from long-distance advertisement to detail information like in the airport flight schedule, replacing traditional display tech like PDP / LCD / Rear Projection Mini-LED or Micro-LED-based high contrast displays also

start to enter high-end retial stores and luxury mansion homes "Fine-pitch" is officially the new industry mainstream for both indoor and outdoor LED displays.

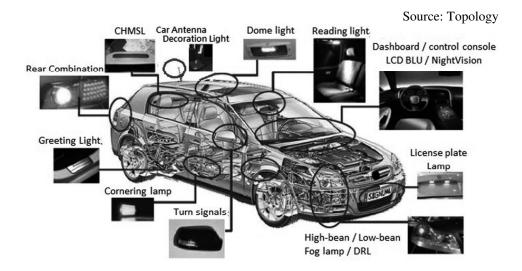


LED revenue in Signs & Signal and Display market, 2018-2024

#### (2) Automotive Lighting

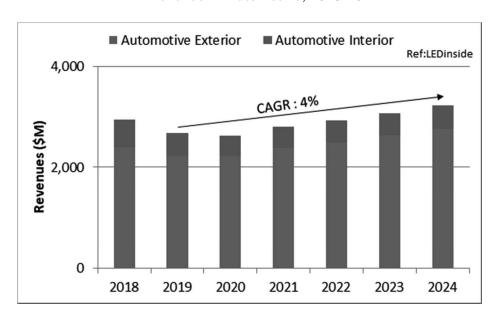
High reliability, energy saving, and instant response make HB LEDs the best light source in both interior and exterior automotive applications. Interior applications include light sources in dashboard and control console, reading light, interior dome light, trunk light, and doorway light. Exterior applications include lighting for visibility (like headlamp, fog lamp, and license plate lamp) and lighting for signaling (like stop lamp, turning lamp, tail lamp, CHMSL, reversing lamp, and DRL). LED light sources are becoming standard equipment in not only premium models but also mainstream models. Meanwhile "Lightsource for communication" also emerge as OEM and headlamp maker developing projector-type and matrix-type headlamp. These new headlamps can "talk" to surroundings with pixel-level accurate pattern while maintaining the illumination function. Both large-area LED and mini-LED could grow in such premium design long-term-wise.

LED light sources in automotive application



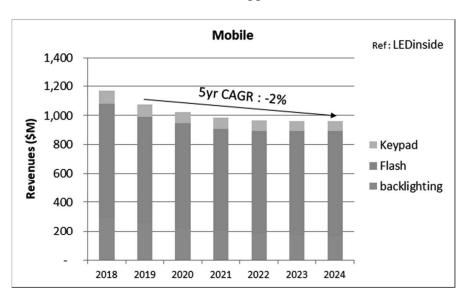
Beyond the above interior & exterior lighting, more optoelectronic devices are designed into ADAS or Auto-driving system. The integration of infrared camera and smart headlamp, and the range-finding sensor fusion of Radar & Lidar & Ultrasonic devices also expand the automotive related market. As the autonomous-driving function matures, in-cabinet displays are expected to grow, the flat or curve displays leave more opportunities for mini-LED BLUs. As vehicle cabinet functions as another living space for work and leisure, high quality and RGB tunable illumination are now crucial for creating atmosphere to match each scenario.

LED revenue in Automotive, 2018-2024



#### (3) BLU for cellphone and portable handheld devices

The "thin and lightweight" requirement for hand-held consumer electronics like cell phones and GPS make LEDs the best choice for keypads and LCD backlights due to LED's advantages in both size and weight. Though the quantity growth was slowing in 2016, the trend of increasing size and higher resolution remains. The LED number per phone increased from 6 in 3.5" to 8 in 4" to 12~16 in 5"<sup>+</sup>. Performance requirements like high brightness and low voltage also drives LED technology advances. Moreover, the flash LED for rear cameras also increased from 2 to 4 in iPhone 7s. We believe this trend will expand the push by other brands to follow suit. Overall the LED revenue in handheld devices could remain flat. Due to the very high driving current and flux requirement of flash applications, CSP types of LEDs are being gradually adapted. Over the long-term, LEDs still could be impacted by the OLED trend in handheld device. Therefore, LED industries are also developing super-thin HDR (High-Dynamic-Range) features by utilizing direct-type mini-LED which is even smaller than current side view LED in edge-BLU. With these thousands of mini-LED, the BLU can perform 2D-local-dimming to very fine zones so reaching super-high contrast, while maintaining excellent power consumption and thickness In the premium tablet and gaming NB/PC market, the demand for premium picture quality and power consumption also push for mini-LED design to take-off.



LED revenue in handheld applications, 2018-2024

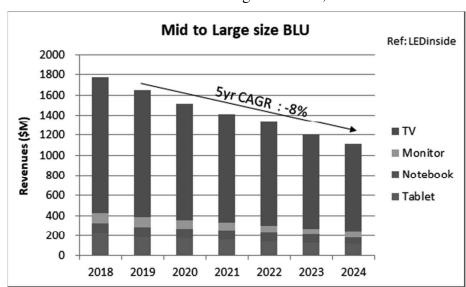
#### (4) Mid to large size BLU for LCD

In 2009, LEDs began to replace CCFL as light source for Netbook PC's BLU. Following Sony's launch of large-size LCDTVs with LED BLU in 2004, in 2009 Samsung was the first to use the Edge-lit BLU structure to lower the LED number and BLU thickness. The smaller price gap with CCFL counterpart made it a big hit in the consumers market in 2010. Many TV branders then further brought the price to almost CCFL levels by introducing directly lit BLU structure LCD TVs, which pushed the LED penetration rate to 70% with the help of China's subsidies for energy-efficient appliances. After 2015, the overall LED penetration rate of all mid-to-large LCD BLUs were almost 100%, so it's generally believed that the LED revenue had reached the peak for this type of application.

Nevertheless, there are some positive factors for this application including:

- A. Trend for average size-up every year. 41.4"@2015,43.6"@2016, 45"@2017, 46"@2018 and 47"@2019. A 5% increase in panel size and LED count in yearly average can be observed.
- B. Trend to UHD (4k2k). 30%~50% more LED per TV comparing to FHD
- C. Trend to High Color Gamut. The CG target increased from 70% ~ 72%NTSC @2009 to 90~95%, which requires more LED for to compensate the brightness loss by different phosphor. Quantum Dot's lower conversion efficiency calls for more LED in BLU design. QD-based design also requires lower driving current to avoid heating, and that means more LED per TV too.
- D. High Dynamic Range. To compete with OLED in terms of contrast, the mini-LED for HDR BLU design uses multiple-times of LED per TV will boost the contrast performance, and also LED usage in BLU applications.

Combining all that, although the LED penetration rate is almost saturated, the positive factors like size-up, UHD, HCG, and HDR can still stimulate mid-to-high-end LED revenue. Mini-LED-BLU is another trend in premium monitors design. The benefit of meeting both HDR and slim design make mini-LED a perfect choice to grow with premium monitors for Gaming and Graphic-design users.



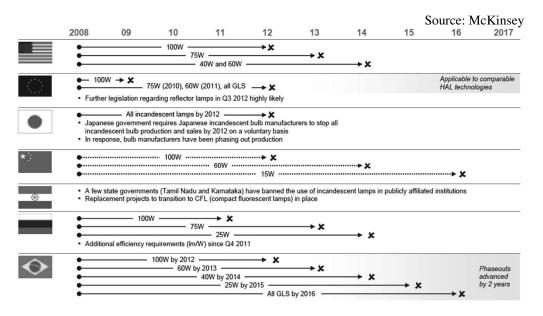
LED revenue in mid to large size BLU, 2018-2024

#### (5) Solid-state lighting market

According to OECD, global lighting electricity consumption accounts for about 19% of total electricity consumption. In recent years, due to the global warming, energy shortages, high oil prices and other issues, the global awareness of energy conservation have been gradually increasing. Generally estimated, if the LED light sources replace existing conventional lighting, about 1,325 TWH savings will be made per year, corresponding to 50% energy savings, savings approximately equal to the amount of 132 nuclear power plants (set 10 TWH as annual electricity generation per nuclear power plant). Therefore, integrating considerations including environmental protection, energy conservation and safety,

governments have embarked on to ban incandescent lamp, and LED lighting is undoubtedly an important solution.

The policy of ban on incandescent lamp



Outdoor street lighting market is the fastest growing category of solid-state lighting applications. Taiwan's government first launched the CNS-15233 LED lights standard in late 2008 to properly define product specifications and market rules, and in 2011 budget 2.768 billion TWD for the replacement of 326,000 streetlights with LEDs. Subsequently, from the US American Recovery and Reinvestment Act (ARRA) providing subsidies for LED streetlights, to China's 12<sup>th</sup> Five-Year Plan to promote the "10 cities with ten thousand lights" and "lighting every village" initiatives, to the EU's 20-20-20 plan, streetlight markets have been key projects for governments. In 2011, the International Energy Agency (IEA) surveyed that about 160 to 180 million existing streetlights, LED lights in 2011 penetration rate was only about 5%. In 2016 the penetration rate already reach 50% and then reached 65% in 2018, with a total demand amounting to more than 100 million LED lights.

In 2014, changes in indoor alternate lighting sources started due to the complete specifications and the arrival of a pricing sweet spot. This allows for a large number of solid-state lighting started penetrating into the consumer market. The US government officially banned the production and import of 40-watt and 60-watt incandescent bulbs in 2014. The EU's policy from 2013 gradually regulated and guided the replacement of low energy efficiency incandescent halogen lamps with efficient LED bulbs. In the United States, state governments and power companies subsidize the purchase of Energy Star certified LED light sources, making the US Department of Energy in advance to reach 2015 target of 1000 lumens/10 USD in the second half of 2014, following by the market penetration rate highly growing year by year. The installed penetration rate is 13% in 2016, and growing to 20% in 2017, forecasted to be over 50% in 2021. Product-wise the LED filament bulbs also gain much popularity among branders and consumers, due to the classic appearance and energy-efficient features.

Besides the consumer lighting market, some niche lighting application also grows faster than average. The horticultural lighting can help both in shortening harvest-time and increase plant density per area. Horticultural LED lighting had been implemented in many high-value plant farms.



LED revenue in Lighting, 2018-2024

#### (6) Sensing application

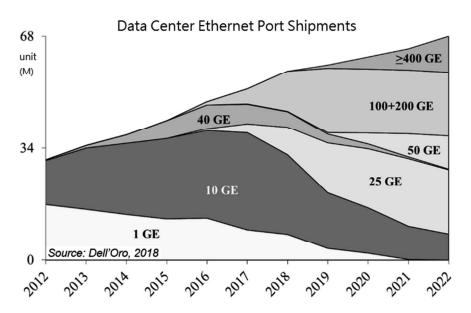
Sensing functions are now applied in many scenarios. The Infrared LED and Camera pair had been used for Facial Biometric Recognition in many IT devices, replacing the routine Password-setting / key-in/ re-new...etc. The lower-power consumption and wavelength-customization-capability are also very favorable in smartphone authentication. The uniqueness and accuracy of Iris tissue has made Iris-Recognition a very popular authentication method. Wearable devices like wristband are widely used in health-monitoring and sport-tracking, with pulse-tracking function that enabled by different absorption-spectrum of blood and vessel tissue. By combining visible and infrared spectrum, the tracking device can provide best S/N ratio of bio-information for the user to judge. Other than just pulse-rate, important bio-metrics like SpO2, blood glucose level are available by Besides multiple-wavelength Infrared LED. measurement, Photodynamic Therapies are also under-developing. Infrared LEDs have been used to improve life qualities in terms of Security, Recognition, HealthCare, BioMedical.

VCSEL (Vertical Cavity Surface Emitting Laser) is an important key component in the 3D sensing application. In the past, it was mainly used in the optical communications market. Its 'collimated and coherent' features enable high accuracy, miniaturization, low power consumption, reliability, and excellent response speed. These all contribute to precision distance measurement and recognition. As 3D sensing architecture such as time-of-flight and structured light mature, plus the rapid development of algorithms, major manufacturers gradually introduces 3D sensing technology to mobile devices in response to the demand for new features of consumer electronics products. Since the high-end flagship devices began to accommodate 3D sensing capabilities in 2017, the number of VCSEL shipped for consumer electronics products has exceeded VCSEL for

existing optical communications market. Market research institutes expect VCSELs used on smart phones will reach 5 times the demand for optical communications in 2019. In the future, 3D sensing with VCSEL as an important component can also be extended to new applications such as vacuum-cleaner robots, AR/VR, automotive applications like drones and self-driving cars, or biomedical sensing.

#### (7) Optical Communication

Data Center traffic has been growing fast as the smart handhelds and internet services getting popular, spurred by cloud and 5G infrastructure implementation. The Data Center Interconnect (DCI) is a key sector of optical communication market. Transceiver module made by Multi-mode VCSEL grows the most in the <2km "inside DC interconnect" due to its high performance and lower cost and power consumption. 10Gbps VCSEL is mainstream now, while 25Gbps are the foundation of 100G(4×25Gbps)Ethernet switch. 25G per channel can be the building block to reach 100G and 200G switch. This flexibility make VCSEL demand grows with healthy DCI market.



#### 5.1.2.4 Current situation in industry competition

Domestic and foreign LED mega manufacturers have unique advantages with LED structures, elements, epitaxy, and technology on process technology. With reference to the public information published by the enterprises, the important technical items are described as follows:

- (1) PHILIPS LUMILEDS performs high efficiency and high power LED with technical advantages of transparent substrate and the flip-chip technologies.
- (2) NICHIA invested in developing InGaN LED technology very early and has advantages on high-efficiency LED technology.
- (3) OSRAM OPTO SEMICONDUCTOR invested in developing Buried Micro Reflector Type LED and Thin-GaN LED technology and has advantages on high-efficiency LED technology.
- (4) CREE uses vertical adhesive technology and integrated packaging technology on high power InGaN dies, and breaks the records of luminous efficiency frequently.

All enterprises each have leading and dominant technologies in different aspects. While along with rapid changes in technology, companies are able to communicating, research and develop various new LED structure, component, and process technology by using different technology platforms. Then based on considerations including each company's technologies, transferable production, and ROI rate etc., profits will be reduced, and companies will gradually lose competitiveness. Therefore, they will only survive in this strict market if they continually improve their LED technological innovations. The LED industry is a technology-intensive industry, and patents are a key indicator of competitiveness. By the end of 2019, Epistar acquired 4,982 domestic and foreign patents, and has been deemed as the manufacturer with the most key patents in the domestic upstream LED epitaxy / dies in the industry.

#### 5.1.3 Research and Development

#### 5.1.3.1 Research and Development Expenses

Consolidated I	Entities	Unit: NT\$ thousands
Year	Research and Development Expenses	Revenues (%)
2019	1,999,017	12.53

Note: Based on IFRS

# 5.1.3.2 Successfully developed technologies or products as of the publication of this annual report

- (1) High power 810nm/850nm/940nm wavelength infrared dual junction chip products for facial and iris recognition function adapted in portable device /notebook
- (2) Infrared LED chip for automotive night vision and Advanced Driver Assistance System(ADAS)
- (3) Ultra-high brightness red LED chip products for vehicles rear lamp assembly
- (4) Proximity sensor and biometric detection related products for portable and wearable device
- (5) Wall plug efficiency (WPE) >70% red LED chip for horticultural lighting application
- (6) Small size red flip chip for electronic sports application
- (7) Red PEC-chip (Pad extended chip) for display
- (8) The high brightness horizontal GaN LED technology development
- (9) Development of horizontal GaN LED for automotive console, cluster, reading lamp and daytime running lamp
- (10) The high voltage flip-chip LED development for CSP package. Suitable for all kinds of BLU module and down size LED PKG dimension
- (11) The Mini LED development for ultra fine-pitch display application
- (12) Development of mini LED for mobile phone \, tablet and TV BLU
- (13) The high voltage (9V-18V) LED development for general lighting application
- (14) Development of high efficiency flip-chip LED development for automotive, the brightness reaches 380lm at 1000mA.
- (15) The UV flip-chip LED development for 365-420nm application
- (16) High efficiency 410~420nm lateral chips for sun-like spectrum lighting.
- (17) High efficiency 520~535nm vertical chips as light source for heart-rate sensing wearable devices
- (18) The ultra-high brightness B/G GaN LED for pico projector application.
- (19) The ultra-high brightness vertical UV (365nm) LED.

- (20) Development of ultra-low voltage horizontal LED for mobile phone sideview BLU application
- (21) The mini flip-chip LED development for ultra-thin cell phone panel application
- (22) The white light technology development for cell phone flash module
- (23) Development of deep UV light source technology for disinfection and purification application
- (24) Development of flip-chip GaN LED for automotive daytime running lamp and head light lamp
- (25) Development of high reliable vertical 365~410nm UV LED
- (26) Development of high efficiency green vertical die for bio-sensing application
- (27) Development of ultra-thin and high color gumut LED CSP for Edge-lit of LCD BLU
- (28) Development of wide angle of LED CSP for ultra-thin and high contrast LCD BLU
- (29) Development of high power and high color gumut LED CSP for BLU
- (30) Development of new LED CSP technique for flash application
- (31) Development of high optical density of LED CSP in lighting applications
- (32) Package and modulation technology for power supply application
- (33) Development of edge-emitting blue laser diode with 4W radiant power
- (34) Development of 4 W radiant power edge-emitting blue laser diode COS (Chip On Submount)
- (35) Development of high voltage IOT IC with HEMT
- (36) Successfully developing SMART process for BAW product (process from customer)
- (37) The Preliminary Research of "GaN on Si" Epitaxial Technology for RF Device
- (38) The Development of Key Technology for Normally-off Transistors(E-HEMT)
- (39) Development of multiple LED dies with super fine pitch for headlamp module
- (40) Development of high brightness LED package for automotive use
- (41) Development of 0404 RGB Package for fine pitch display
- (42) Development of 4in1 RGB Package for P0.9375mm fine pitch display
- (43) Development of 4in1 RGB Package for P0.625mm fine pitch display
- (44) Development of mini LED COB for 27" monitor
- (45) Development and mass-production completed of small power VCSEL chip for proximity sensor of mobile phone
- (46) Development and mass-production completed of VCSEL chip for under-panel proximity sensor of mobile phone
- (47) Development and mass-production completed of small power VCSEL chip for true wireless stereo
- (48) Completed the technology platform of VCSEL flip-chip
- (49) Completed the development of VCSEL 850nm epitaxy for surveillance
- (50) Development and mass-production of small power VCSEL chip for proximity sensor of mobile phone
- (51) Development and repeat run of 25G VCSEL epitaxy
- (52) Development and pilot-run of 10G APD for optical communication
- (53) Completed the wafer process technology of Micro LED for next generation display
- (54) Development and repeat run of EEL 650nm for industrial application

#### 5.1.3.3 Ongoing Research and Development Projects and Expenses

Future R&D plans and estimates of R&D expense. The R&D expense of the company in 2020 is roughly 1.813 billion. The R&D items are shown as follows:

- (1) Efficiency improvement of near infrared LED with wavelength ranging from 1100nm to 1600nm
- (2) Mini RGB package for small pitch display
- (3) Develop new flip chip product with high efficiency for lighting market
- (4) Launch/receive device development for biometric detection and recognition
- (5) Ultra-high wall plug efficiency LED chip for horticultural lighting application
- (6) Ultra-high efficiency/Stable reliability LED chip for automotive application
- (7) Ultra-high brightness and current-density RGB chip products for projector application
- (8) Development of high brightness LED epiwafer, running at high current density, for headlamp application
- (9) Development of high brightness LED epiwafer, running at high current density, for general lighting
- (10) Development of high brightness LED epiwafer, running at low current density, for high-efficiency lighting and portable device BLU
- (11) Development of high efficiency LED epiwafer, running at ultra-low current density, for micro-LED application
- (12) Development of new product of high quality and high efficiency Mini-LED
- (13) Development of new product of high quality and high efficiency ultra-thin Mini-LED
- (14) Develop mini-LED for automotive applications
- (15) Develop high efficiency & quality high-voltage flip chip LED product
- (16) High efficiency flip-chip LED product development and performance improvement
- (17) High lumen and reliable flip chip for automotive headlight market
- (18) Develop high current density blue/green vertical GaN LED for pico projector and efficiency improvement
- (19) High efficiency B/G LED development and performance improvement for fine-pitch display application
- (20) High efficiency vertical UV (365-405nm) LED development and performance improvement for industrial or commercial application
- (21) High efficiency UV (410-420nm) LED development and performance improvement for high color gamut lighting applications
- (22) Development of high competitive product with white light LED apply for BLU, general lighting and high-end flash module
- (23) Improvement of output power of 280nm UV-C LED die
- (24) Development of blue laser diode
- (25) Development of new LED CSP for BLU, lighting and high-end flash applications
- (26) Development of LED CSP for automotive head lighting
- (27) Development of LED CSP array with different wavelength
- (28) Design of 2<sup>nd</sup> lens for LED CSP optimization
- (29) Development of integrated GaN-on-Si power device for LED general lighting application
- (30) Development of power supply system for operation over 100W and beyond 1 MHz over 100W operated higher than 1MHz power supply

- (31) Development of GaN power electronics device/circuitry/system for LiDAR application
- (32) Develop high voltage IoT IC for smart home
- (33) Development of device package for 2.5 GHz RT BAW
- (34) Development of 3.5 GHz RT BAW device (polycrystal)
- (35) Development of 2.5 / 3.5 GHz RT BAW device (single crystal)
- (36) Development of 2.5 GHz MT BAW device (polycrystal)
- (37) Development of "GaN on Si" Epitaxial Technology for Microwave Device (RF Device)
- (38) The Development of "GaN on Si" Process Technology for Microwave Device (RF Device)
- (39) Development of 0202 RGB Package for fine pitch display
- (40) Development of 4in1 RGB Package for P0.7812mm fine pitch display
- (41) Development of 16in1 RGB Package for P0.46875mm super fine pitch display
- (42) Development of LED CSP for wide color gamut BLU of automotive cluster
- (43) Development of mini BLU COB for 15.6" NB monitor
- (44) Complete the 1300nm VCSEL epitaxy and product development for ToF 3D sensor
- (45) Complete the 905nm epitaxy and product development for biometric application
- (46) Complete the 650nm-680nm epitaxy and product development for industrial application
- (47) Complete the high power VCSEL chip product for facial recognition and 3D reconstruction of mobile phone
- (48) Complete the product development of 850nm for surveillance
- (49) Complete the product development of VCSEL flip-chip
- (50) Complete the epitaxy & process technology of high power VCSEL for facial recognition and 3D reconstruction of mobile phone foundry service.
- (51) Complete the process technology of 25G VCSEL for optical communication.
- (52) Complete epitaxy technology of 10G APD for optical communication.
- (53) Complete the process technology for shrinkage the Micro LED chip size for new generation display.
- (54) Complete the epitaxy & process technology of VCSEL flip-chip

#### 5.1.4 Long- term and Short-term Business Development Plans

#### 5.1.4.1 Short-term Business Development Plans

- (1) Focus on visible light, UV light, infrared light LED technology development LED wafers and dies, in order to improve product performance and increase profits.
- (2) Provide LED products with high light intensity and cost advantages, high Lm / \$ core competencies to meet specific customer.
- (3) Expand the China, Europe, America, Japan, Korea, and other regional marketing channels, improve the proportion of exports and increase international market share.
- (4) Rapid response to customer demand, adjust the product combination to meet the rapidly changing market.
- (5) Create a virtual vertical integration (VVI) service, to improve the efficiency of cooperation lighting supply chain, improve the popularity of LED lighting. Fastening the adaption of mini-LED and micro-LED solutions by working closely with LCD customer and also supply chains of all display types.

# 5.1.4.2 Long- term Business Development Plans

- (1) Improve the company's own research and development capabilities, launch technical cooperation with domestic and foreign research institutions and customers, and arrange high proportion of investment in R & D resources to raise liters of long-term international competitiveness.
- (2) Develop long-wavelength infrared light and short-wavelength UV light technology to provide a full spectrum LED product line.
- (3) To become the world's leading LED manufacturer continues to develop new products, improve the efficiency of LED and relevant applications in order to actualize unlimited LED potentials.
- (4) Continually thick technical design capability and enhance patent portfolio basis.
- (5) Continually optimize production technology, lower production costs, and establish a more cost-competitive production capacity.
- (6) Optimize production capacity and complete quality certification system, continuing to improve product quality, shorten product delivery to provide customers with the most satisfactory services.
- (7) To enhance the transferable efficiency of LED products, reduce the heat and thus save energy; committed to the development of other III-V semiconductors technology applications, such as the power element to conserve energy, to develop new applications and VCSEL foundry business.

# 5.2 Market and Sales Overview

# 5.2.1 Market Analysis

# 5.2.1.1 Sales (Service) Region

Consolidated Entities

Unit: NT\$ thousands

Area	Sales	Sales %
Taiwan	2,757,518	17.28
Asia	12,969,498	81.26
Others	232,815	1.46
Total	15,959,831	100.00

Note: Based on IFRS

# 5.2.1.2 Market Share, Supply and Demand, and Future Growth.

Epistar's main products are two categories of epi wafers/LED chips: AlGaInP and InGaN. According to statistics, the total revenue of 8 LED chip manufactures in Taiwan (including publicly traded companies in LED industry) was around 27.2 billion NTD. Epistar's revenue in 2019 was around 16 billion NTD. The market share is about 58.8% in 2019.

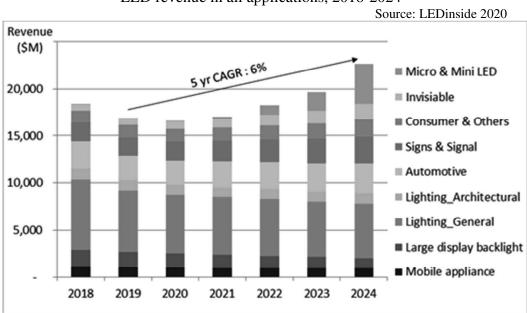
Source: MOPS

Ranking	Company	2019 Consolidated Revenue (NTD million)	%
1	Epistar	15,960	58.8%
2	Optotech *	5,418	20.0%
3	Tyntek *	2,520	9.3%
4	Epileds	1,191	4.4%
5	Genesis	744	2.7%
6	HPO	652	2.4%
7	Tekcore	555	2.0%
8	Arima	114	0.4%

<sup>\*:</sup> consolidated revenue including non-Epi wafer and non-chip product

Starting in 2009, China's government subsequent 11<sup>th</sup> and 12<sup>th</sup> 5-year plan subsidized and encouraged Chinese manufacturers to purchase MOCVDs, create joint ventures, or new companies. Many new industry players were created and the market became highly-competitive, and the supply and demand became out-of-balance. The price went down and some players went bankrupt. As a result, the annual revenue of 2015 declined 2~3%.

In spite of the needs of solid state lighting having increased, the consuming habit for general lighting focuses on the "cost / performance ratio" and this factor makes revenue increase quickly but profits sharply decrease. However, the applications like automotive, medical, horticulture, security, and wearable devices are still growing up. We believe that the players equipped with effective production and strong abilities will be bigger and survive in the market after supply and demand is balanced. There are two research companies' points of view about the estimation of the LED market.



LED revenue in all applications, 2018-2024

# 5.2.1.3 Competitiveness

(1) Full spectrum product portfolio.

Epistar's AlGaInP product series provides yellow-green, yellow, orange, and red high brightness epi wafers and chips. Epistar's InGaN product series provide purple, blue, and green epi wafers and chips. Epistar also has ultraviolet and infrared products. From 365nm to 940nm, features of full spectrum product portfolio and one-stop shopping satisfy all kinds of needs for all kinds of applications.

(2) Concentrate on epi wafers and chips manufacturing. For the 23 years after its founding, Epistar has remained focused on epi wafers and chips, dedicated to the optimization of chip manufacturing technologies. Instead of vertical integration, Epistar chooses horizontal expansion and looks for cooperation in patents, seeks a wide variety of products and depth of technologies. (3) Adjust product portfolio and meet market needs rapidly.

Except for high brightness LEDs and AC LEDs, Epistar started mass production of high voltage LEDs in 2011. The high voltage product series was TAIWAN EXCELLENCE certificated in 2014. It saves driver cost for client and creates more design ability by using high voltage LEDs. The combination of blue and red high voltage LEDs also provides high quality and high CRI warm-white light sources. Epistar also began mass production of pad extension chip (PEC) in 2012. PEC is especially for high operating current and there's no need of the wire bonding process. The PEC also enables higher package density and satisfies the needs for high lumen output in lighting market. Furthermore, Epistar has developed UV LED, infrared ED, and automotive LEDs for a long time. Take niche projector application as an example, in emerging market of portable projectors, it needs extremely high quality and high reliability red, green, and blue light source. Epistar is able to provide one-stop shopping for projector clients. This case embodies the technology and quality value of Epistar.

# (4) Excellent R&D ability with complete IP portfolio.

Started from establishment, Epistar has been always dedicated to improve manufacturing technologies and develop for innovations. There are over 240 people in R&D Center (EPISTAR LAB) and over 1,400 people in engineering, research, and development. Most of them form Electronic and Optoelectronic System Research Laboratories of ITRI, experts overseas, and domestic professional talents. They are experienced in LED R&D and manufacturing to optimize the technologies of manufacturing LED chips and make LED chips apply to different applications. In 2019, Epistar has 4,982 patents, including patents issued or pending.

For many years, Epistar has been devoted to develop all kinds of technologies for different applications, like "InGaN Blue LED Project" (1999), "InGaN Green LED and White LED Development Project" (2001), "Key Technologies of High Efficiency and High Power Emitting Components Development Project" (2003), "Next Generation Lighting Project" (2003), "Advanced Flat Display Material and Component Integration Project" (2005), "Key Technologies of CPV Solar Cell Development Project" (2007), "Full Color Outdoor Display Development Project" (2014), and "HV LED Application Project" (2014). All of them are key to Epistar's competitiveness.

(5) Comprehensive and reliable quality and ESH management system.

Epistar has devoted to improve its product quality sinceestablishing. Epistar was cetified by ISO 9001 in March, 1999. In order to further improve product quality to meet the needs of automotive industries, the Company started to introduce TS 16949 and obtained its certification in January, 2006; obtained SONY GP certification in 2009; continued to implement ISO 9001: 2015 and International Automotive Task Force (IATF) 16949: 2016 new edition certification in August, 2018. Besides, in order to strengthen customers' trust in quality of the Company's products, eliminate measurement disputes and enhance corporate image, the Company found its measurement laboratory in 2012 and obtained ISO 17025 certification in the same year.

Epistar also considerably values environmental protection and occupational health and safety, therefore, it obtained not only ISO 14001 certification in July, 2006, but also OHSAS 18001 and CNS 15506 system certification in 2008 and 2009. Epistar also carried out ESH management system (ISO 14001/OHSAS 18001/CNS 15506) three-year re-examination and completed ISO 14001: 2015 revision certification in 2018; besides, in response to the official release of the Occupational Health and Safety Management System ISO 45001:2018, Epistar started planning for it, and implementing the conversion of system standard in the fourth season of 2018, and planned to convert OHSAS 18001 system into ISO 45001 in 2020; it's sufficient to show that Epistar strives in emphasizing and being strict with management of ESH.

# 5.2.1.4 Favorable factors and unfavorable factors in futures and counter measures.

### (1) Favorable factors

- A. Products are widely used to all kinds of applications and has great potential High brightness LED wafers and chips are widely applied because of several advantages derived from their small dimensions, low electricity consumption, less hear, and long lifetime. Main applications are outdoor display, traffic information display, and light source for automotive lighting, like indicators in interior and third brake light, fog light, tail light, directional light in exterior. Traffic light, traffic signs, light sources for backlight modules in displays, cellphones, and notebooks are also included. For saving energy, LEDs are also widely used for general lighting and streetlights.
- B. LED supply chain is completed and channels are clear and smooth Taiwan LED industry has developed for over 20 years and it is well-constructed. Mature and effective manufacturing technologies make Taiwan LED industry an important role in global market. This is a favorable factor for up-stream makers. In addition, Epistar started to develop overseas customers very early and owns abundant down-stream resources. Therefore, forming alliances with downstream customers is one of the important characteristic of Epistar. By work specialization and alliance strategy, Epistar is able to catch market trend and adjust product portfolio to improve competitiveness.
- C. Future application of MOVPE core competence
  MOVPE technology is utilized to manufacture HB-LED and LD due to its
  strong controls over material purity, epi-layer thickness, and superior
  uniformity than LPE and VPE technologies. It's also the major technology
  in manufacturing devices of fibercom and RF front-end module. Those
  devices include LD & VCSEL in fibercom, CPV Solar cell, HBT in wireless
  communication. Epistar's management and technology team have years of
  intensive experiences in both MOVPE epitaxy technology development and
  MOVPE system design and modification. This expertise brings competence
  in possible future possible in fibercom and RF related device manufacturing.

(2) Unfavorable factors and counter measures.

# A. Risk of patent infringement

After Nichia Corporation successfully developed InGaN blue and green led chips, 5 main suppliers formed patent alliance. Patent infringement became the common issue for development of LED's all spectrum manufacturing.

### Counter measures:

Epistar owns a large number of patents of high brightness AlGaInP LED and InGaN LED and dedicates to increase the wideness and deepness of patents by endless research and development. Epistar also signed cross-license agreement with name brands, like TOYODA GOSEI (Japan) in September 2010. Two companies are able to use patents own by others, including InGaN LED and AlGaInP LED technologies. Epistar also signed cross-license agreement with PHILIPS in February 2014 and with CREE in 2015. The cross-license agreement with CREE focuses on InGaN LED technologies.

B. There are great opportunities in LED lighting market. Many players emerged and increased competition.

The price of traditional LED lighting dropped. Future directions tend to focus on high brightness and full color applications. Most of the players target high brightness LEDs. In addition, Asia manufacturers usually earn business by lowering price. It makes market competition get worse.

# Counter measures:

Epistar's strategies are focusing on research and development, improving manufacturing technologies and yield rate, strengthening product reliability, and creating manufacturing scale. Through these strategies, Epistar is not only able to reduce cost but also maintain quality to maintain our competitive advantages. Furthermore, Epistar also develops new products, like UV LEDs and AlGaInP LEDs for datalink applications with all the latest technologies.

In addition to effort spent in research and development and yield rate improvement, Epistar also tries to optimize the human resource system, co-work with clients closely, and strengthen customer relationship to get closer to end market needs. Epistar also deepens the management and operation in China by setting up joint ventures and subsidiaries.

# 5.2.2 Important applications and process of main products

# 5.2.2.1 Important applications

LED epi wafers and chips produced by EPISTAR featured with advantages like small dimension, less electricity consumption, less heat, long life-time. Epistar's chips are widely used for different applications.

- (1) Outdoor display, traffic signs, traffic information display
- (2) Automotive

Interior: backlight source for meter board, indicators, map light.

Exterior: third brake light, fog light, tail lamp, directional light, day running light.

(3) Consumer products

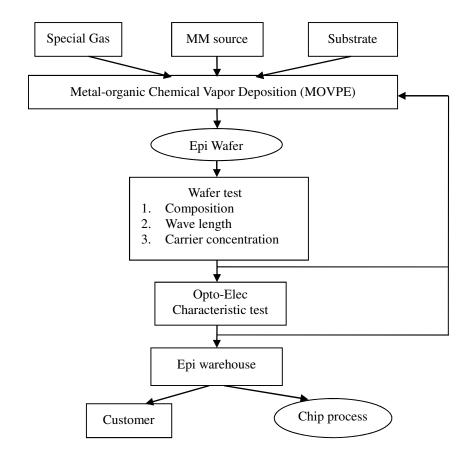
Indicators, 7 segment for all kinds of consumer products.

- (4) Communications industry
  Backlight source, flashlight, and distance measuring in all kinds of cellphones.
- (5) IT industry
  Indicators in all kinds of computer related equipment, backlight source of small display, scan light source of photocopier, CIS light source of fax machine.
- (6) Indicators and display for industry and instruments.
- (7) Light sources for large TV backlight module and projectors.
- (8) Lighting applications like landscape lighting, streetlight, general lighting, commercial lighting, industrial lighting.
- (9) Special lightings like horticulture lighting, medical lighting, and UV.
- (10) Infrared emitting diode for facial and iris recognition in biometric authentication.
- (11) Infrared emitting diode for biomedical sensing in wearable device.

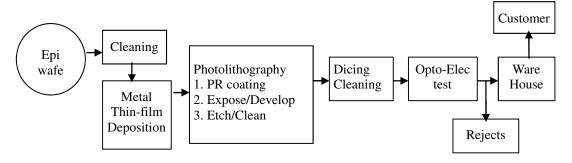
# 5.2.2.2 Manufacturing process

The major process can be categorized as Epi Process and Chip Process

(1) Epi Process



# (2) Chip Process



# 5.2.3 Supply status of major raw materials

Material	Vendor	From	Status
Substrate	Crystalwaise Technology Inc. Rigidtech Microelectronics Corp. Sinopatt Technology Co., Ltd.	China and Taiwan	Smooth
MO source	Laminar advanced material Co. Ltd. SAFC Hitech Taiwan Co., Ltd.	Taiwan	Smooth
Special Gas	Taiyo Nippon Sanso Taiwan, Inc. Praxair Chemax Semiconductor Materials Co., Ltd. Versum Materials Taiwan Co., Ltd	Taiwan	Smooth
Metal	Matsuda Sangyo Co., Ltd	Japan	Smooth

5.2.4 Major Suppliers and Clients 5.2.4.1 Major Clients

	2018	81			20	2019	
Customer	Net Revenue	As % of 2018 Total Net Revenue	Relation to EPISTAR	Customer	Net Revenue	As % of 2019 Total Net Revenue	Relation to EPISTAR
A	1,716,675	8.45	The company's CFO of Board acts as the Company's director.	A	1,234,975	7.74	7.74 None
В	2,063,267	10.16	None	В	1,164,134	7.29	7.29 None
Others	16,526,470	81.39	None	Others	13,560,722	84.97	84.97 None
Total Net Revenue	20,306,412	100.00		Total Net Revenue	15,959,831	100.00	

Note: Adoption of IFRSs (consolidated entities)

Notes to cause of increase/decrease:

The operating revenue from Customer A and Customer B has varied by no more than 1% and 3% for the most recent two years. Therefore, no significant effect was produced.

5.2.4.2 Major Suppliers

							Unit: IN 15 thousand
	20	2018			20	2019	
Supplier	Procurement Amount	As % of 2018 Total Net Procurement	Relation to EPISTAR	Supplier	Procurement Amount	As % of 2019 Total Relation to Net Procurement EPISTAR	Relation to EPISTAR
D	1,465,878	13.05	None	D	1,165,679	14.90	14.90 None
田	1,172,803	10.44	None				
Others	8,594,838	76.51	None	Others	7,108,640	86.10	86.10 None
Total Net Procurement	11,233,519	100.00		Total Net Procurement	8,274,319	100.00	
Motor Adomtion of IED Co (opposition)	(someolidated anti	(00)					

Note: Adoption of IFRSs (consolidated entities)

Notes to cause of increase/decrease:

To be in line with planning and adjustment of the Company's production and marketing.

5.2.5 Production capacity/output value in the Last Two Years

		Ur	iit: Square inch, in the	case of chips; thousa	Unit: Square inch, in the case of chips; thousand pieces, in the case of dies; NT\$ thousand	dies; NT\$ thousand
Year		2018			2019	
Output Major Products	Capacity	Output	Amount	Capacity	Output	Amount
Chips	1,119,707,571	981,873,425	26,201,439	1,234,943,631	779,462,869	15,845,291
Epi Wafer	68,466,582	245,350	91,882	74,426,181	265,364	106,962
Others	1	_	_	181,121	124,430	576,814
Total	1	1	26,293,321	1	_	16,529,067

Note: Adoption of IFRSs (consolidated entities)

5.2.6 Consolidated Shipments and Net Revenue in the Last Two Years

			OIIII. S	Office Square files, in the case of emps, mousand preces, in the case of these, in the mousand	case or curps, ur	iousaila pieces, ii	I the case of thes	, ivi e diodealla
Year		2018	81			2019	6	
Sales	Local	cal	Export	oort	Local	al	Export	ort
Major Products	Quantity	Net Revenue	Quantity	Net Revenue	Quantity	Net Revenue	Quantity	Net Revenue
Chip	14,536,210	3,580,564	615,515,713	15,343,018	12,968,274	2,618,213	523,036,635	11,700,545
Epi Wafer	23,302	44,694	6,109,123	803,854	143,257	38,514	327,101	125,024
Others	1	17,828	I	516,454	ĺ	109,772	1	1,367,763
Total	14,559,512	3,643,086	621,624,836	16,663,326	13,111,531	2,766,499	523,363,736	13,193,332
Note: Adoption of IFRSs (consolidated entities	tities)							

# 5.3 Human Resources

	Year	2018	2019	FEB. 29, 2020
	Management	449	426	419
Number of	R&D and Technician	1,340	1,227	1,178
Employees	Direct	1,862	1,664	1,606
	Total	3,651	3,317	3,203
Average Age		34.8	36.5	36.5
Average Year	rs of Service	7.0	8.5	8.7
	Ph.D.	1.9	1.8	1.8
	Masters	20.2	23.5	23.7
Education	Bachelor's Degree	42.6	51.2	51.7
	Senior High School & Below Senior High School	35.3	23.5	22.8

Note: Adoption of IFRSs (consolidated entities)

# 5.4 Environmental Protection Expenditure

5.4.1 The loss or penalty caused by environmental pollution during the latest year and up to the printing date of this annual report:

The Company did not suffer any loss or receive indemnity for environmental pollution in 2019. Notwithstanding, the audit result showed that the Company's Fab N6 violated Item 1, Section 1, Article 31 of the Waste Disposal Act, and the Company was fined NT\$6,000 by the competent authority.

# 5.4.2 Countermeasures and Possible Expenditure

As a member of the global village, since the Company was founded, it has upheld the life cycle idea about Environmental Management System (EMS), and voluntarily and continuously makes improvements at the stages of use, production, circulation, and waste of raw materials and supplies in order to mitigate the effect and impact produced to the environment. Meanwhile, the Company introduced the latest pollution prevention technology at the stage of construction of factory premises. The Company also upgrades the efficiency of energy utilization, builds comfortable living environment, and pursues sustainable operations by the 3R model (Reduce, Reuse and Recycle). In order to continue to upgrade the management result of EMS, the Company maintained its ISO 14001 EMS certification since 2006, and implemented ISO14064-1 verification by association organization level every year until now, and also completed introduction and certification of PAS 2050 standards on carbon footprint of V45H chip in 2011. Furthermore, since 2016, the Company has actively worked with Taiwan Optoelectronic Semiconductor Industry Association (TOSIA) members in research of environmental laws and regulations and countermeasures, also jointly audited the waste disposal with member companies. Through TOSIA member companies' power, the Company regularly discussed with member companies to reduce the impact of environmental protection brought by environmental protection establishing or revising, and hoped to jointly enhance the performance of environmental protection and safety.

With respect to the management of expenditure in prevention of pollution and environmental protection, since 2011, the Company has introduced the environmental accounting management system under guidance of the Environmental Protection Administration. By virtue of environmental classification and code, the Company demonstrated its concrete achievement in environmental protection in detail and completely. The data analysis output from the system may also serve as the basis for

investment or management to enable the Company to consider the entire environmental management performance comprehensively, in hopes of achieving the purpose of environmental protection sustainability in the most economic and effective manner. Meanwhile, the statistics show that the expenditure spent in the entire EMS maintenance and operation was about NT\$140,000,000 in 2019, in addition to the repair and maintenance costs of control equipments and government fees, other major expenditures were as follow: (1) Company's Fab N3 extra-set up wastewater monitoring equipment in response to the demands of authorities; (2) Company's Fab H1 extra-set up air pollution control equipments in response to the demands of environmental protection regulations; (3) Company's Fab S3 extra-set up or modified environmental protection control equipments in response to the demands of environmental protection regulations and energy conserving improvement; (4) Company's Fab S1/S3 replaced air-conditioning equipment, lamps and lanterns, and expanded the capacity of the recycled water system to save energy.

The Company also spared no effort to invest in green production. Since 2014, the optoelectronic semiconductor industry has promoted the implementation of the Cleaner Production Evaluation System to promote cleaner production.

In 2015, the Company's Southern Taiwan Science Park Fab 3 passed the cleaner production and obtained the Cleaner Production Certificate (validity period: 2016/02/01 ~ 2019/01/31). In order to continuously promote and maintain validity of the certificate, the Company submitted the application for extension in September, 2018, and carried out on-site certification and obtained Cleaner Production Certificate (Validity period: Feb. 1, 2019 to Jan. 31, 2022) in December of the same year.

With top-level support from the Company and efforts by various departments, there are continuous many source reduction environmental protection projects that have produced outstanding results and achieved remarkable results. The total reduction benefits of the entire Group amounted to NT\$7,300,000 in 2019.

In order to fulfill corporate social responsibility, the Company also actively participated in the related groups' SHE operations, e.g. participated in the event organized by Health, Safety and Environmental Protection Commission of the Allied Association for Science Park Industries, participated in Taiwan Occupational Safety and Health Management System (TOSHMS) North District Association serving as a cadre, participated in environmental education partners of Hsinchu Science Park Bureau (since 2015), participated in Environmental Protection Development and Promotion Foundation of the Southern Taiwan Science Park, supported the environmental protection sustainability boosting by TOSIA Environmental and Safety Sustainable Development Commission, cooperated with public sectors to boost policies, submitted the suggestions about enactment of environmental protection laws and regulations to governmental departments, and shared the experience in boosting industrial safety and environmental protection work.

There are numerous goals worth pursuing with respect to the safety and environmental protection. In the future, the Company will continue to move forward toward the enterprise's sustainable development and fulfillment of corporate social responsibility, and be dedicated to achieving stakeholders' expectations toward the Company.

# 5.5 Labor Relations

5.5.1 Planning and implementation of employee benefit plans, continuing education, training, retirement systems;negotiation of labor relations and various safeguarding measures of employee's rights and interests.

The Company has emphasized maintenance of fair labor-management relations. We supply generous remuneration packages, a flexible leave system, and a complete insurance system to provide a healthy and friendly work environment to prevent the loss of employees and retain talents.

# 5.5.1.1 Employee Benefit Plans

For the purpose of safeguarding employees and their conditions of daily life, the company not only has provided basic guarantee, but also assisted and sponsored various benefit plans, and help organizing the employee welfare committee for implementing and planning all kinds of matters of employee benefits. PLS refer to the current measures below:

- (1) Employee bonus plan.
- (2) Three important Chinese holiday bonus, incentive bonus, employee patent application reward, employee proposal bonus.
- (3) Entitled to labor insurance, health insurance, and group insurance.
- (4) Subsidy of wedding, funeral, birth and hospitalization.
- (5) Year-end party, birthday bonus, social clubs subsidy, domestic & overseas traveling subsidy, newspapers & magazines, various sports events and leisure activities.
- (6) New staff members' wage is higher than the minimum wage under Labor Standards Law no matter the gender.

For the full protection of employees health; healthy "body", satisfaction in "mind" and joyful "spirit". We've introduced three elements of healthy "body", satisfaction in "mind" and joyful "spirit" into our employee health care project. It's from healthy body and knowledge, satisfaction in "mind", and self-mind dialogue, connecting the health activities in our FAB and extending to family to create a complete, good, and healthy workplace to reach a physical, mental, social, spiritual balance. PLS refer to below situations how we take care of our staff:

# (1) Physical checkup management:

There is employee in-service physical checkup (including abdominal ultrasonography) twice a year. Special operation and transference checkups are done according to the law. The rate of completion of checkup is 100%.

For the implementation of checkup abnormality management, we keep track of employees who have abnormal checkup records through heath education or doctor consultation in our FAB to strengthen the awareness of the healthcare provided. We also supply customized health care project for those who with higher health risks and give health care advice according to the severity levels to carry out the prevention of illness in workplace.

# (2) Health promotion programs:

To establish staff healthcare self-management attitude and action to do it, and strengthen employees' ability of healthcare self-management; from the passive way of care management to active way of disease prevention, and implement the prevention of disease, instead of the preventive medicine. Starting from 2016

we've cooperated with the hospitals to offer free low-dosage computed tomography scan (CT scan), a total of 158 people (158 people were eligible for the program) participated the program in 2019, the participation rate is 100%. If we compute the hospital checkup fee NT\$6,000 per person, the total derivative benefit is NT\$948,000. Moreover, for the purpose of diversity of health promotion events (courses of lectures, exercise, charitable blood donation, thematic activities on special occasion) has attracted more colleagues to attend. A total of 13,520 people participated in the healthcare events in 2019.

# (3) Operational health risk prevention and management:

We formulated human factors hazard prevention SOP based on Occupational Safety and Health Act, and carried it out for all staff. We also conducted hazard assessments for those stations that have higher hazard risk. We may reduce human factors through the improvement of working environment and workmanship.

# (4) Infectious disease management:

We've assigned an in-charge unit for monitoring constantly and based on the condition of epidemic to draw up workplace epidemic preventive program, and from the experience accumulated to avoid over-reaction or inappropriate response. In addition to epidemic materials preparation and vaccination (influenza vaccine, hepatitis Type A vaccine for those who relocated to Mainland China), we also promote the knowledge about epidemic prevention through posters, announcements, e-mails, and lectures to strengthen and encourage employees to apply it at workplace and in the family to take care of themselves, family and prevent group infection. We also provide epidemic prevention facemasks, thermometers, record sheets for those who travelling on business when it's necessary.

# (5) Occupational injured employee health care:

When employees reinstate from injury or other physical and mental reasons; to prevent frustration from work performance due to their health issue or the original work may worsen their health and result in worries of work safety; through the support from relevant departments, we would carry out healthcare assistance and reinstatement mechanisms to give essential care to the reinstated employees.

# (6) Maternal protection & healthy workplace:

To build up a friendly maternal workplace, and implement a complete pregnancy notification mechanism to carry out maternal care and risk prevention control. There were 32 maternal people to be taken care of in 2019 and 32 maternal people were taken care of with a 100% participation rate.

Every plant has a breast-feeding room equipped with comfortable couches, disinfected pots, and other relevant breast-feeding items. Cleaning lady does disinfection on a regular basis. The cleanliness has won the hearts and praises from breast-feeding moms. We also won breast-feeding room certification issued from city/county government. In addition, we have chair for pregnant woman only in production line and priority car parking space in the Company.

To encourage and remind prospective female employees to take the initiative to inform and participate in the protection measure and receive relevant information about pregnancy, childbirth, childcare, we've drawn up "smooth childbirth hand book" and particularly provided maternal employees care gifts, so that they shall be embraced by the caring rendered by the Company and practice a maternal friendly workplace.

# (7) A great diversity of activities and soft lectures:

To promote and keep the balance of work and life, we've planned various activities and soft lectures irregularly. We design activities based on different ages and needs, including sports events of basketball, badminton, volleyball, swimming, and road running, as well as health lectures, soul-elevating seminars and parent-child lectures. Meanwhile, there are movies, craft lessons, family day, and parent-child day. We encourage the spirit of teamwork through such activities. We also design activities that enable family members to join in and to thank them for their support, and the special activities combined holidays like Valentine's Day, Mother's Day, and Christmas. Through a wide range of activities, we build up connections between colleagues outside of work, which enhances the Company's coherence. Also, we hold charitable events to enable employees and families to participate in social care and services.

# 5.5.1.2 Employees' continuing education and training

In order to achieve the Company's business objectives, the Company continues to develop employees' work performance, and develop the training roadmap to launch a series of training programs based on the training structure, including the management series, quality series, technical series, environment, safety and health series, professional series by function courses and orientation training, etc.. Meanwhile, in order to assure the Company's product quality and safety, all new employees shall attend the orientation training, and specific employees shall pass specific qualification evaluation and undergo re-evaluation periodically to ensure that the employees hold the competency to satisfy the qualifications required for the specific duty.

The company's overall training structure is based on a pyramid-shaped design, with the concept of developing ability classification and periodic training. From the basic orientation (total 12.5 hr, including the relevant training & education about human rights) to self-development at the top of the pyramid. The middle of the pyramid includes general ability, competence ability, and management ability. General ability shall include the ability training (till now, Epistar Corporation staff has 100% attended the human rights training) about enterprise culture, general education, versatile e-learning courses, and human rights, information safety, anti-corruption, anti-trust. Our purpose is to define the key behavior index according to the company culture and values to enable employees understand and comply with the company culture behavior. Competence ability include technological training courses, quality related courses, patent & legal matters. Professional courses shall be a required or optional subject according to the nature of work and needs. The purpose is to take root in professional fields to enhance professional competitiveness. In addition, it also includes the cultivation of specific talents, internal lecturer training, production line trainer training...etc.; Management ability includes basic supervising management course, middle-level management course and executive administration course. subjects to be taken shall be performance interview, recruitment interview skill,

guidance & authorization management skill, high performance team establishment...etc. Our purpose is to set up a consistency of management language then to bring our team to the top performance. Also, through comprehensive internal office training, not only upgrade employees' professionalism but also enhance the company's overall competitiveness.

Further, in order to practice the ethical management, the Company discloses its ethical management best-practice principles on the official website and organizes the internal/external training related to ethical management issues, including compliance with laws & regulations on ethical management, prevention of insider trading, safety & health management, accounting system and internal control. Among the other things, the Company spares no efforts to protect trade secrets, intellectual property rights and information security, in order to ensure the staff's painstaking results and the Company's competitiveness, and to prevent the Company's important information from being disclosed. Accordingly, the Company establishes the strict "Regulations Governing Information Grading and Protection" to help the staff cultivate the habit to protect documents routinely, and as the basis for access to and processing, communication and utilization of related documents. The Company also establishes the "Information Security Management Review Committee" to upgrade the information security goal. Each of the staff shall accept the information security training to satisfy the expectations from related laws, technology and stakeholders, and integrate with the business strategies. All of the employees shall comply with the "Regulations Governing Information Grading and Protection" and fulfill the responsibility as a good administrator. To this end, the new staff shall complete the online courses about "Introduction to Intellectual Property Rights" and "Information Security Policy of EPISTAR". Meanwhile, the Company produced the additional online course for "Information Confidentiality Classification" in 2018 to enable all of the staff to understand the Company's policy and control requirements, in hopes of achieving the educational propagation and strenghthening the staff's awareness toward intellectual property rights and prevention of confidential information disclosure. The seminars on business secret law were held in 2019 towards relevant business units and colleagues at different levels to strengthen the knowledge and application of business secrets.

The total number of people participated in training in 2019 was about 22,000 and the total training hours were about 45,000 hours, and the total training expense was NT\$ 2.24 million. The results of the training are stated as follows:

Unit: NT\$ thousand

Items of 2019	Attendee count	Training hours	Training expense
Series of management	313	920	
Series of quality	4,372	5,579	
Series of technical/research and development	2,289	7,429	
Series of environment/safety/health (ESH)	6,641	16,159	
Series of professional by function	4,402	6,901	
Orientation training (including compliance with integrity management regulations, trade secrets act, information confidentiality classification)	1,599	4,707	2,237
Compliance with laws and regulations on intellectual property right, protection of trade secrets and ethical manaement	1,540	2,699	
Information security policy and information confidentiality classification	462	335	
Total	21,618	44,729	

Said courses are primarily intended to conduct the educational propagation to the staff. The staff shall perform their duties with due diligence as a good administrator to protect the Company's interest and right from being injured and satisfy the various stakeholders' expection. During the orientation training for new employees, the Company strenghthens the propagation, and the new employees may review the online courses at any time in the "eHRD Portal" on the Company's intranet.

# 5.5.1.3 Retirement Systems

In order to fulfill the social responsibility and stabilize the retired employees' life, the Company and its domestic subsidiaries all established their own"Regulations Governing Retirement of Employees Holding Positions as Managers and Directors Concurrently" and "Regulations Governing Retirement of Employees" in accordance with the "Labor Standard Law" and "Labor Pension Act". Said regulations are reviewed and approved by the Remuneration Committee, and implemented upon approval of the Board of Directors. Meanwhile, the pension fund is contributed on a monthly basis pursuant to laws.

Pension system	Old System	New System
Applicable laws	Labor Standard Law	Labor Pension Act
Contribution	The Company will	The Company will
	contribute 2% of the total	contribute 6% of the salary
	salary as the pension fund	as the labor pension and
	on a monthly basis, and	deposit the same to the
	deposit the same in the	employee's personal
	account maintained at	account maintained at
	"Bank of Taiwan" in the	Bureau of Labor Insurance
	name of "Labor Pension	on a monthly basis.
	Supervision Commission".	
Contributed amount	Balance of the labor	The pension cost
	pension, NT\$280,245	recognized in 2019 was
	thousand	NT\$181,822 thousand.

The subsidiaries in Mainland China were enrolled into the social insurance programs managed and handled by the local governmental authorities in Mainland China. The programs refer to the defined contribution plan. The Company paid the social insurance premium under the social insurance programs managed by the governments.

The important requirements under the "Regulations Governing Retirement of Employees" are summarized as following:

# Old system:

# (1) Retirement conditions:

# A. Voluntary retirement

- a. Where the worker attains the age of 60 years old (inclusive) and has worked for the Company for more than 10 years (inclusive) consecutively.
- b. Where the worker attains the age of 55 years old (inclusive) and has worked for the Company for more than 15 years (inclusive) consecutively.
- c. Where the worker has worked for the Company more than 25 years (inclusive) consecutively.

# B. Compulsory retirement

- a. Where the worker attains the age of 65 years old (inclusive).
- b. Where the worker is unable to perform his/ her duties due to disability physically and mentally.
- c. The Company may request the central competent authority to adjust the age prescribed in Subparagraph 1 of the preceding paragraph if the specific job entails risk, requires substantial physical strength or otherwise of a special nature; provided, however, that the age shall not be reduced below 55 years old.

# (2) Payment of pension, standards and deadline for claim

- A. Two bases are given for each full year of service rendered for the first 15 years, provided that for the rest of the years over 15 years, one base is given for each full year of service rendered. The total number of bases shall be no more than 45. The length of service is calculated as half year when it is less than six months and as one year when it is more than six months. Said base(s) multiplying by the one month's average wage applicable when the application for retirement is approved is equivalent to the pension claimable by the worker.
- B. The one month's average wage refers to the average wage for 6 months prior to the retirement.
- C. An additional 20% on top of the amount calculated according to the preceding subparagraph shall be given to workers forced to retire due to disability incurred from the execution of their duties.
- D. Claim: The employee who satisfies the qualification for claiming the pension shall file the application with the Company's Human Resources Center pursuant to the Labor Standard Law and related laws. The Company will apply for the benefit of pension with Trust Dept. of Bank of Taiwan on behalf of the employee pursuant to related laws and regulations.

- E. The pension fund contributed by the Company pursuant to laws shall be paid within 30 days as of the worker's retirement. Where it is impossible to allocate the pension in a lump sum, it may be paid in installments upon authorization of the competent authority.
- F. The right to claim will become extinguished if it is not exercised within 5 years as of the month following the retirement.

# New system:

# (1) Qualifications

- A. Where the worker attains the age of 60 years old (inclusive) and has worked for more than 15 years cumulatively, the worker may claim the pension on a monthly basis, provided that where the worker has worked for less than 15 years cumulatively, the worker may claim the pension in a lump sum.
- B. The seniority referred to in the preceding paragraph shall be calculated based upon the period of which the contributions to the pension have been made. If the seniority is interrupted, the worker's seniority before and after the interruption shall be combined in calculation.
- C. If a worker dies before claiming the pension, his/her survivors or designated person(s) shall claim the pension in a lump sum.

# (2) Claim and calculation

The employee who satisfies the qualifiations for claiming the pension shall apply with the competent authority for withdrawing the pension from the individual account of labor pension pursuant to the Labor Pension Act and related laws.

# (3) Right to claim

The right to claim will be extinguished if it is not exercised within 5 years as of the employee's resignation.

# 5.5.1.4 Labor-Management Agreements

Harmonious labor relations have always been the major management policy of human resources management. We have established a good communication and consultation channel so that employees can work comfortably and maintain high efficiency. Hence, we have established the Employee Relations Deptartment to provide assistance by integrating professional staff and experts both internally and externally to help solve problems or pressures from work or daily life. We also provide confidential and professional external services and consultations with other professional resources.

Our internal communication channel includes an exclusive suggestion box that enables employees to express their opinions, all of which are kept confidential and listed into labor relations meeting for discussion and follow-ups. We also set up a being harassed while performing duties hot line and mailbox available to employees, job applicants, and suppliers, which will be responded timely. Futher, we communicate and coordinate with employees through formal channels, if there is major business change that may affect the employees' rights & interests. We hope to provide the best working environment for all employees.

# 5.5.1.5 Working Environment and Employee Safety Protection Measures

To secure a safe working environment for employees, please refer to the safety protection measures below:

- (1) To ensure a safe working environment for employees, the Company has set up a professional environmental and safety team to formulate "Decreasing Occupational Accidents program" and give instructions to relevant departments to practice.
- (2) We conduct safety and health training for new staff members and in-service employees.
- (3) We conduct annual environmental assessment in working area to ensure the quality of working environment.
- (4) We conduct annual physical checkup for those who perform special operation and general physical checkup for all active employees for every two years.
- (5) We have the medical staff and medical room located on each site according to laws for preliminary care and further medical treatment at the time of emergency. We also assign occupational disease specialist/doctor in our factory to supply relevant medical care & consultation services and referral services with other medical organization outside the plant.
- (6) According to the rules & regulations, there should be inspection methods for the access of danagerous machinery and equipment to the factory in place. We also have established a department dedicated to facility and equipment maintenance and inspection.
- (7) Each department is required to conduct environment, health, and hygiene self-management. For environment & safety planning, we have the management level to carry out the routine check and safety observation.
- (8) Each site has planned the emergency response team equipped with emergency facility and equipment, dedicated to carrying out various evacuation drills based on different situations.
- (9) According to the rules and regulations, each site has established the safety monitoring control system. Employees and the Company shall be covered through Property and Casualty Insurance for compensation, if there is any accident occurs.

In addition to above protection measures, we also provide friendly working environment as followings:

- (1) Various recreation facilities (ex: treadmill, gymnastic apparatus, table tennis, billiard, yoga room...)
- (2) Various convenient store, and café
- (3) Complete medical room equipped with breast-feeding rooms
- (4) Spacious and joyful dining environments, diversified dining choices and meal allowances.

# 5.5.1.6 Procedures for Preventing Insider Trading

The prevention of insider trading is included into the internal control system; notify employees, managerial officers and board members from time to time to remind them whether there is any important messages to be disclosed pursuant to laws, and advise them of the related requirements. This prevents staff members from breaching laws and engaging in inside trading. Relevant regulations may be accessible from the Company's website or internal policies.

Said personnel may access the internal important information due to their identity, occupation, or relation, who shall perform their duties and fulfill their obligation as a good administrator with due diligence and also exercise their authority in a highly self-disciplined and careful manner to ensure strict compliance with the requirements for processing, disclosure and confidentiality of important information defined by the competent authority, or shall be required to sign the non-disclosure agreement case by case, if necessary.

5.5.2 Labor/employer dispute loss in 2019 and as of the publication date of the annual report: None.

5.6 Material Contract Subject	Counterparty	Contract term	Main content	Important restrictive clause
Patent licensing	Kesearch Unit	2014.03~ 2020.01	Exclusive license of patent	The Company shall attach patent markings and certification number of patent to products or packages while selling at home and abroad. The Company shall not breach the laws of Republic of China.
Patent licensing	Research Unit	2006.02~ 2023.02	Non-exclusive license of patent	The Company shall attach patent markings and certification number of patent to products or packages while selling at home and abroad. The Company shall not sublicense the patent to any third party. In addition, without prior consent of Ministry of Economic Affairs, the Company will not use the patent to manufacture products in other countries.
Industrial-Academic Collaboration Project and Early-Stage Technology Transfer Agreement with Ministry of Science and Technology, Executive Yuan subsidy	National A University	2021.07.15~	Research and manufacture of light-emitting diode array	The technology and related technical information belong to National A University. The University and project investigator may enter into a technology transfer/license agreement with a third party after consent by both parties.
Syndicated Loan Agreement	Jiangsu Canyang Optoelectronics Ltd., Land Bank Of Taiwan Co., Ltd., Taipei FUBON Commercial Bank Co., Ltd., First Commercial Bank Co., Ltd., Mega International Commercial Bank Co., Ltd., CTBC Commercial Bank Co., Ltd., Bank SinoPac Co., Ltd., Bank Of Taiwan Co., Ltd.	2016.05.30~ 2019.05.30	Loan amount: NT\$ 4,000,000,000 and USD\$ 19,000,000	If the Company fails to repay the principal and the interest, or the Bank declares that all liabilities become immediately due and payable upon the event of default, the Company shall pay the default interest and penalty.

If the Agreement is terminated due to circumstances

Technology transfer for cooperative

2017.08.01~

S University of Science and Technology

Technology transfer

research and development result

attributed to the Company, no royalty for the technology transfer will be refunded to the Company.

Subject	Counterparty	Contract term	Main content	Important restrictive clause
Technology transfer	National C University	2018.03.15~ 2038.03.14	Technology transfer for cooperative research and development result	If the Agreement is terminated due to circumstances attributed to the Company, no royalty for the technology transfer will be refunded to the Company.  If the Company intends to execute the research and development of the authorized technology by setting a new spin-off company, the Company shall give a 30-day prior written notice to National C University and obtain the consent of National C University for sublicense, or otherwise sign a contract before transferring the authorized technology to the new spin-off company.
Technology licensing	Research Unit	2018.08.20~ 2019.08.19	License of specific technology	The Company shall not sublicense it to any third party.  The Company shall work the technology only in the territories of the ROC.
Loan Agreement	Mega International Commercial Bank Co., Ltd.	2018.04.27~ 2019.04.26	Loan amount: NT\$ 100,000,000	If the Company fails to repay the principal and the interest, or the Bank declares that all liabilities become immediately due and payable upon the event of default, the Company shall pay the default interest and penalty.
Loan Agreement	Shin Kong Bank Co., Ltd. DongSinJhu Branch	2018.07.10~ 2019.07.09	Loan amount: NT\$ 300,000,000	If the Company fails to repay the principal and the interest, or the Bank declares that all liabilities become immediately due and payable upon the event of default, the Company shall pay the default interest and penalty.
Loan Agreement	First Commercial Bank Co., Ltd.	2019.12.02~ 2020.12.02	Loan amount: NT\$ 500,000,000	If the Company fails to repay the principal and the interest, or the Bank declares that all liabilities become immediately due and payable upon the event of default, the Company shall pay the default interest and penalty. The Bank may reduce the loan amount or terminate the Agreement without notice.

Subject Technology and patent	Counterparty Research Institute	Contract term	Main content  Exclusive license of	Important restrictive clause  The Company shall not sublicense the patent to
			patent	any third party.  2. The Company shall attach patent markings pursuant to the Patent Act while selling at home and abroad.  3. Without prior written consent of the Research Institute, the Company shall implement or use the technology and patent only in the territory of the R.O.C. The Company shall comply with the related regulations governing export and import of strategic high-tech commodities while exporting products.  The Company shall be responsible to cause its distributors or agents to comply with the regulations on patent markings while selling at home and abroad, otherwise it will be deemed the Company's breach of the Agreement.
Patent transfer	Research Institute	2019.07.31~	Transfer of patent	The patent is the research and development results funded by the government. The Company hereby agrees to grant to the Ministry of Economic Affairs and the Research Institute a permanent, royalty-free, world-wide non-exclusive and non-transferable license to use or implement all or part of the patent; however that the Research Institute shall not use or implement the patent for business activities.  If the Agreement is terminated or rescinded due to the fault of the Company, the Research Institute is not obligated to return the payment that Company has paid for the patent transfer. Both parties agree that, based on the laws and regulations of the Ministry of Economic Affairs, if the Company meets the circumstances specified in the Agreement, the Ministry of Economic Affairs may, at its own discretion or upon the application, grant to the third party a non-exclusive license to implement the patent, or nationalize the patent when it's necessary.

Subject	Counterparty	Contract term	Main content	Important restrictive clause
Patent licensing	Research Institute A	2019.10.01~ (until the last expiration date of the patent)	License of patent relating to CASN phosphor	The Company shall purchase the specific materials only from the manufacturer who has obtained the license from the Research Institute A.
Commissioned research	Research Institute B	2019.07.01~ 2020.06.30	Development of graphene material suitable for UVC LED	Except for those caused by the Research Institute's willful or gross negligence, the liability of the Research Institute under the Agreement shall be limited to the payment that the Research Institute has received from the Company for the research in accordance with the Agreement.
Commissioned research	Research Institute B	2020.06.30	Research and development of narrow-band red and green phosphor suitable for blue-LED	Except for those caused by the Research Institute's willful or gross negligence, the liability of the Research Institute under the Agreement shall be limited to the payment that the Research Institute has received from the Company for the research in accordance with the Agreement.
Industrial-Academic collaboration and research	National D University	2019.11.01~ 2020.10.31	Research on the integration of P-type Boron Nitride and Aluminum Gallium Nitride	If the Agreement is terminated due to the fault of the Company, the Research Institute is not obligated to return the payment that the Research Institute has received from the Company for the research.
Commissioned development	National B University	2019.01.01~ 2019.12.31	Development of technology relating to high power blue laser	Either party's liability under the Agreement shall be limited to the actual payment that the Company has paid for the research in this project.
Patent sublicensing	Company Y	2019.10.01~ (until the last expiration date of the patent)	Subjects of patent relating to CASN phosphor	Company Y shall purchase the specific materials only from the manufacturer who has obtained the license from the Research Institute A.

Subject	Counternarty	Contract term	Main content	Important restrictive clause
Patent transfer	Company E	2019.03.20~ 2019.10.31	Transfer of patent	In the event that the Company breaches the warranty under the Agreement, Company E may rescind or terminate the Agreement by the written notice at any time, and may request the Company to return the payment and compensate Company E for all the loss and damages.
Patent licensing	Company C	2019.01.01~ 2019.12.31	Non-exclusive license of patent	Upon termination or recession of the Agreement, the party who terminates or rescinds the Agreement may exercise its rights pursuant to the Agreement and the related regulations, and may request the compensation for damages from the defaulting party.
Patent licensing	Company K	2019.01.01~ 2024.12.31	License of patent	The Company releases Company K's liability for indemnification arising from patent litigation before the effective date of the Agreement.
Technology licensing	Research Institute	2021.01.31 2021.01.31	Non-exclusive license of technology	If the Company intends to implement any Research Institute's patent regarding this technology, the Company shall enter into a patent license agreement with the Research Institute.  The Research Institute's liability under the Agreement shall be limited to the payment that the Research Institute has received from the Company for the research in accordance with the Agreement.
Research and development collaboration	National T University	2019.06.01~ 2020.05.31	New generation high-resolution up-conversion sensor chip	If the Agreement is terminated or rescinded due to the fault of the Company, the University is not obligated to return the payment that Company has paid for the collaboration. If the Agreement is terminated or rescinded due to the fault of the University, the University's liability shall be limited to the amount that Company has paid to the University.  The research and development results of this project shall be owned by the University; however that the part of the research and development results solely funded by the Company shall be owned by the Company.

Important restrictive clause	The University makes no warranties or guarantees for products with respect to the licensed technology or other issue under the early-stage technology transfer and licensing agreement. With respect to the research and development results which have submitted the patent application by the University, the Company shall mark "Patent Pending" on products which are applied such research and development results before the patent is approved, and shall mark the patent certificate number clearly on such products after the patent is approved. If the Agreement is terminated due to the fault of the Company, the University is not obligated to return the payment that Company has paid for the damages.	If the Company has not implemented or used the licensed technology efficiently within two years from the effective date of the Agreement, the University may terminate the Agreement.  In the event that any infringement claim is raised against the Company due to the use of the licensed technology, the University shall assist the Company with its best effort to defend against such claim; however that the amount of such defend shall be limited to twice the expenses of this project.  If the Company intends to transfer the rights and obligations under the Agreement to the third party, the Company shall obtain the prior written consent of the University.
Main content	Measurement and process monitoring of material characteristic of functional film	Exclusive license of technology
Contract term	2020.06.30 2020.06.30	2022.06.30
Counterparty	National K University	National K University
Subject	Industrial-Academic collaboration subsidy project of technology and knowledge application	Early-Stage technology transfer and licensing

# 6. Financial Information

# 6.1 Five-Year Financial Summary6.1.1 Condensed Balance Sheet

(consolidated entities) Unit: NT\$ thousand

				Cint. 1	1 \$ tilousand
Year	2015	2016	2017	2018	2019
	30,885,730	24,798,264	26,043,651	23,522,686	20,257,048
ment	34,396,105	27,286,631	24,348,881		20,577,106
	7,994,637	8,007,219	7,846,962	7,683,928	7,501,798
	9,855,452	9,005,320	8,746,175	9,096,079	10,394,658
	83,131,924	69,097,434	66,985,669	62,738,642	58,730,610
Before Distribution	22,001,168	10,214,070	9,668,814	9,113,835	6,995,560
After Distribution	22,001,168	10,214,070	10,893,976	9,438,105	6,995,560
	5,485,999	7,899,368	4,332,943	2,716,897	4,539,692
Before Distribution	27,487,167	18,113,438	14,001,757	11,830,732	11,535,252
After Distribution	27,487,167	18,113,438	15,226,919	12,155,002	11,535,252
ners of the Parent	53,273,900	49,274,144	51,379,181	49,353,583	45,219,189
	10,998,443	10,915,492	10,887,014	10,887,014	10,887,014
	42,810,893	43,016,259	39,970,967	39,515,679	39,212,772
Before Distribution	241,512	(3,303,516)	1,614,226	(385,142)	(3,749,510)
After Distribution	241,512	(3,303,516)	510,829	(385,142)	(3,749,510)
	143,141	(505,370)	(684,243)	(1,317,990)	(1,285,485)
	(920,089)	(848,721)	(408,783)	(211,008)	(325,490)
·	2,370,857	1,709,852	1,604,731	1,554,327	1,976,169
Before Distribution	55,644,757	50,983,996	52,983,912	50,907,910	47,195,358
After Distribution	55,644,757	50,983,996	51,758,750	50,583,640	47,195,358
	Before Distribution After Distribution Before Distribution After Distribution ners of the Parent Before Distribution After Distribution Before Distribution	30,885,730 ment 34,396,105 7,994,637 9,855,452 83,131,924 Before Distribution 22,001,168 After Distribution 22,001,168 5,485,999 Before Distribution 27,487,167 After Distribution 27,487,167 ners of the Parent 53,273,900 10,998,443 42,810,893 Before Distribution 241,512 After Distribution 241,512 After Distribution 241,512 143,141 (920,089) 2,370,857 Before Distribution 55,644,757	2015   2016	30,885,730 24,798,264 26,043,651  ment 34,396,105 27,286,631 24,348,881  7,994,637 8,007,219 7,846,962  9,855,452 9,005,320 8,746,175  83,131,924 69,097,434 66,985,669  Before Distribution 22,001,168 10,214,070 9,668,814  After Distribution 22,001,168 10,214,070 10,893,976  5,485,999 7,899,368 4,332,943  Before Distribution 27,487,167 18,113,438 14,001,757  After Distribution 27,487,167 18,113,438 15,226,919  ners of the Parent 53,273,900 49,274,144 51,379,181  10,998,443 10,915,492 10,887,014  42,810,893 43,016,259 39,970,967  Before Distribution 241,512 (3,303,516) 1,614,226  After Distribution 241,512 (3,303,516) 510,829  143,141 (505,370) (684,243)  (920,089) (848,721) (408,783)  2,370,857 1,709,852 1,604,731  Before Distribution 55,644,757 50,983,996 52,983,912	Year         2015         2016         2017         2018           30,885,730         24,798,264         26,043,651         23,522,686           ment         34,396,105         27,286,631         24,348,881         22,435,949           7,994,637         8,007,219         7,846,962         7,683,928           9,855,452         9,005,320         8,746,175         9,096,079           83,131,924         69,097,434         66,985,669         62,738,642           Before Distribution         22,001,168         10,214,070         9,668,814         9,113,835           After Distribution         22,001,168         10,214,070         10,893,976         9,438,105           5,485,999         7,899,368         4,332,943         2,716,897           Before Distribution         27,487,167         18,113,438         14,001,757         11,830,732           After Distribution         27,487,167         18,113,438         15,226,919         12,155,002           ners of the Parent         53,273,900         49,274,144         51,379,181         49,353,583           10,998,443         10,915,492         10,887,014         10,887,014           42,810,893         43,016,259         39,970,967         39,515,679           Be

Note: Certification of Financial Statements by Certified Public Accountants

(individual entity)					Unit: N	T\$ thousand
Item	Year	2015	2016	2017	2018	2019
Current Assets		19,821,426	20,914,997	19,953,571	14,908,320	11,680,627
Property, Plant and Equi	pment	15,764,303	19,174,184	17,010,006	15,385,565	13,389,355
Intangible Assets		1,339,452	7,813,856	7,684,157	7,556,713	7,363,388
Other Assets		35,102,565	16,949,893	17,320,940	19,434,311	20,545,071
Total Assets		72,027,746	64,852,930	61,968,674	57,284,909	52,978,441
Current Liabilities	Before Distribution	15,483,790	9,090,726	7,399,939	5,870,345	3,876,195
Current Liabilities	After Distribution	15,483,790	9,090,726	8,625,101	6,194,615	3,876,195
Non-Current Liabilities		3,270,056	6,488,060	3,189,554	2,060,981	3,883,057
Tatal Liabilities	Before Distribution	18,753,846	15,578,786	10,589,493	7,931,326	7,759,252
Total Liabilities	After Distribution	18,753,846	15,578,786	11,814,655	8,255,596	7,759,252
Equity Attributable to Owners of the Parent		53,273,900	49,274,144	51,379,181	49,353,583	45,219,189
Share Capital		10,998,443	10,915,492	10,887,014	10,887,014	10,887,014
Capital Surplus		42,810,893	43,016,259	39,970,967	39,515,679	39,212,772
Datained Famines	Before Distribution	241,512	(3,303,516)	1,614,226	(385,142)	(3,749,510)
Retained Earnings	After Distribution	241,512	(3,303,516)	510,829	(385,142)	(3,749,510)
Other equity Interest		143,141	(505,370)	(684,243)	(1,317,990)	(1,285,485)
Treasury Stock		(920,089)	(848,721)	(408,783)	(211,008)	(325,490)
Total Equity	Before Distribution	53,273,900	49,274,144	51,379,181	49,353,583	45,219,189
Total Equity	After Distribution	53,273,900	49,274,144	50,154,019	49,029,313	45,219,189
Note: Certification of Fi	nancial Statements by Ce	rtified Public	Accountant	S		

# 6.1.2 Condensed Statement of Comprehensive Income/Statement of Income

(Consolidated entities)

Unit: NT\$ thousand (Except EPS: NT\$)

		UIII	t: N15 thou:	sanu (Except	LELO. MID)
Year Item	2015	2016	2017	2018	2019
Operating Revenue	25,509,789	25,539,163	25,270,616	20,306,412	15,959,831
Gross Profit from Operations	123,499	1,916,010	5,460,627	2,678,549	(431,897)
Net operating income(loss)	(3,510,547)	(1,255,776)	2,307,150	(678,843)	(3,691,553)
Non-Operating Income and Expense	(110,325)	(2,499,138)	(383,760)	(188,298)	(62,549)
Income (Loss) before Tax	(3,620,872)	(3,754,914)	1,923,390	(867,141)	(3,754,102)
Income (Loss) for Continued Operations	(3,317,582)	(4,012,752)	1,686,213	(505,864)	(3,937,520)
Net Income (Loss)	(3,317,582)	(4,012,752)	1,686,213	(505,864)	(3,937,520)
Other Comprehensive Income (Income after Tax)	(590,541)	(801,435)	(240,158)	(597,231)	(19,997)
Total Comprehensive Income	(3,908,123)	(4,814,187)	1,446,055	(1,103,095)	(3,957,517)
Net Income Attributable to Owners of the Parent	(3,018,757)	(3,546,045)	1,649,913	(456,146)	(3,753,797)
Net Income Attributable to Non-Controlling Interest	(298,825)	(466,707)	36,300	(49,718)	(183,723)
Comprehensive Income Attributable to Owners of the Parent	(3,400,444)	(4,193,030)	1,435,353	(1,022,814)	(3,720,337)
Comprehensive Income Attributable to Non-Controlling Interest	(507,679)	(621,157)	10,702	(80,281)	(237,180)
Earnings (Loss) Per Share	(2.81)	(3.33)	1.55	(0.42)	(3.48)

Note: Certification of Financial Statements by Certified Public Accountants

# (Individual entity)

Unit: NT\$ thousand (Except EPS: NT\$)

Item Yes	2015	2016	2017	2018	2019
Operating Revenue	23,376,051	23,442,193	21,954,472	17,189,772	12,425,234
Gross Profit from Operations	83,703	2,211,199	4,364,300	2,531,314	(222,787)
Net operating income(loss)	(2,373,253)	(252,510)	1,607,791	(407,182)	(2,701,101)
Non-Operating Income and Expense	(918,309)	(3,908,094)	121,618	(415,721)	(920,620)
Income (Loss) before Tax	(3,291,562)	(4,160,604)	1,729,409	(822,903)	(3,621,721)
Income (Loss) for Continued Operations	(3,018,757)	(3,546,045)	1,649,913	(456,146)	(3,753,797)
Net Income (Loss)	(3,018,757)	(3,546,045)	1,649,913	(456,146)	(3,753,797)
Other Comprehensive Income (Income after Tax)	(381,687)	(646,985)	(214,560)	(566,668)	33,460
Total Comprehensive Income	(3,400,444)	(4,193,030)	1,435,353	(1,022,814)	(3,720,337)
Earnings (Loss) Per Share	(2.81)	(3.33)	1.55	(0.42)	(3.48)

Note: Certification of Financial Statements by Certified Public Accountants

# 6.1.3 Auditors' Opinions from 2015 to 2019

Year	Accounting Firm	CPA	Audit Opinion
2015	PricewaterhouseCoopers	Fang-Yu Wen, Ya-Huei Cheng	Modified Unqualified Opinion
2016	PricewaterhouseCoopers	Fang-Yu Wen, Ya-Huei Cheng	Unqualified Opinion
2017	PricewaterhouseCoopers	Ya-Huei Cheng, Chin-Cheng Hsieh	Unqualified Opinion
2018	PricewaterhouseCoopers	Ya-Huei Cheng, Chin-Cheng Hsieh	Unqualified Opinion
2019	PricewaterhouseCoopers	Ya-Huei Cheng, Chin-Cheng Hsieh	Unqualified Opinion

# 6.2 Five-Year Financial Analysis

### (Consolidated entities)

Item	Year	2015	2016	2017	2018	2019
Financial	Debts Ratio (%)	33.06	26.21	20.90	18.86	19.64
Structure (%)	Long-term Fund to Property, Plant and Equipment (%)	177.73	215.80	235.40	239.01	251.42
	Current Ratio (%)	140.38	242.79	269.36	258.10	289.57
Solvency (%)	Quick Ratio (%)	98.05	181.49	202.35	189.80	229.54
	Times Interest Earned (Times)	(6.55)	(8.48)	9.15	(3.66)	(22.50)
	Average Collection Turnover (Times)	1.84	2.28	2.27	1.86	1.63
	Days Sales Outstanding	197.97	160.02	160.70	196.49	224.19
	Average Inventory Turnover (Times)	3.48	3.70	3.76	3.17	3.39
Operating	Average Payment Turnover (Times)	7.45	7.15	6.16	5.92	6.83
Performance	Average Inventory Turnover Days	104.92	98.54	96.98	114.97	107.77
	Property, Plant and Equipment Turnover (Times)	0.72	0.83	0.98	0.87	0.74
	Total Assets Turnover (Times)	0.29	0.34	0.37	0.31	0.26
	Return on Total Assets (%)	(3.25)	(4.79)	2.78	(0.49)	(6.23)
	Return on Equity (%)	(5.68)	(7.53)	3.24	(0.97)	(8.03)
Profitability	Pre-tax Income to Paid-in Capital Ratio (%)	(32.92)	(34.40)	17.67	(7.96)	(34.48)
	Net Margin (%)	(13.01)	(15.71)	6.67	(2.49)	(24.67)
	Earnings Per Share (NT\$)	(2.81)	(3.33)	1.55	(0.42)	(3.48)
	Cash Flow Ratio (%)	30.20	68.01	72.09	49.99	35.90
Cash flow	Cash Flow Adequacy Ratio (%)	52.72	97.31	125.39	137.56	145.26
	Cash Flow Reinvestment Ratio (%)	7.83	8.99	8.74	4.74	2.91
T	Operating Leverage	(2.10)	(7.06)	5.29	(12.90)	(1.49)
Leverage	Financial Leverage	0.88	0.76	1.11	0.79	0.96

# Notes to causes of changes in financial ratios in the most recent two years:

### 1. Times interest earned:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and decrease in earnings, and the decrease in times interest earned accordingly.

# 2. Profitability:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and decrease in earnings, and the declination of profitability accordingly.

#### Cash flow ratio:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and generation of current net loss, and the declination of cash flow from operating activities accordingly.

# 4. Cash re-investment ratio:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and generation of current net loss, and the declination of cash flow from operating activities causing the cash re-investment ratio to decrease accordingly.

# 5. Leverage:

Primarily a result of the economic cycle in 2019 resulting in the declination of gross margin and operating losses expanded, and the ascension of financial/operating leverages accordingly.

(Individual entity)

(Ilidividual eliti	*/					
Item	Year	2015	2016	2017	2018	2019
Financial	Debts Ratio (%)	26.04	24.02	17.09	13.85	14.65
Structure (%)	Long-term Fund to Property, Plant, and Equipment (%)	358.68	290.82	320.80	334.17	366.73
	Current Ratio (%)	128.01	230.07	269.65	253.96	301.34
Solvency (%)	Quick Ratio (%)	97.83	187.14	214.86	193.65	242.71
	Times Interest Earned (Count)	(15.31)	(19.55)	18.52	(27.37)	(99.00)
	Average Collection Turnover (Count)	2.00	2.11	2.19	2.07	1.78
	Days Sales Outstanding	183	173	167	177	204.58
	Average Inventory Turnover (Count)	6.00	5.58	4.96	4.01	4.05
Operating Performance	Average Payment Turnover (Count)	7.64	6.12	5.96	6.32	6.43
	Average Inventory Turnover Days	61	65	76	95	90.22
	Property, Plant and Equipment Turnover (Count)	1.48	1.34	1.21	1.06	0.86
	Total Assets Turnover (Count)	0.32	0.34	0.35	0.29	0.23
	Return on Total Assets (%)	(3.84)	(4.89)	2.75	(0.72)	(6.75)
	Return on Equity (%)	(5.41)	(6.92)	3.28	(0.91)	(7.94)
Profitability	Pre-tax Income to Paid-in Capital Ratio (%)	(29.93)	(38.12)	15.89	(7.56)	(33.27)
	Net Margin (%)	(12.91)	(15.13)	7.52	(2.65)	(30.21)
	Earnings Per Share (NT\$)	(2.81)	(3.33)	1.55	(0.42)	(3.48)
	Cash Flow Ratio (%)	17.90	42.01	101.65	89.82	68.41
Cash flow	Cash Flow Adequacy Ratio (%)	61.76	89.71	118.13	138.28	125.15
	Cash Flow Reinvestment Ratio (%)	2.74	5.58	10.77	9.67	3.60
Lavianosa	Operating Leverage	(1.25)	(23.73)	5.76	(16.46)	(1.49)
Leverage	Financial Leverage	0.93	0.56	1.06	0.94	0.99

# Notes to causes of changes in financial ratios in the most recent two years:

# 1. Times Interest Earned:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and decrease in earnings, and the decrease in times interest earned accordingly.

# 2. Total Assets Turnover:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and decrease in earnings, and the declination of total assets turnover.

### 3. Profitability Analysis:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and decrease in earnings, and the declination of profitability accordingly.

# 4. Cash Flow Ratio:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and generation of current net loss, and the declination of cash flow from operating activities accordingly

### 5. Cash Flow Reinvestment Ratio:

Primarily a result of the intensive market competition in 2019 resulting in the declination of gross margin and generation of current net loss, and the declination of cash flow from operating activities causing the cash re-investment ratio to decrease accordingly

# 6. Leverage:

Primarily a result of the economic cycle in 2019 resulting in the declination of gross margin and operating losses expanded, and the ascension of financial/operating leverages accordingly.

### Glossary — Taiwan-IFRSs version:

- 1. Capital Structure Analysis
  - (1) Debt Ratio = Total Liabilities / Total Assets
  - (2) Long-term Fund to Property, Plant and Equipment Ratio = (Shareholders' Equity + Noncurrent Liabilities)

    / Net Property, Plant and Equipment

#### 2. Liquidity Analysis

- (1) Current Ratio = Current Assets / Current Liabilities
- (2) Quick Ratio = (Current Assets Inventories Prepaid Expenses) / Current Liabilities
- (3) Times Interest Earned = Earnings before Interest and Taxes / Interest Expenses

# 3. Operating Performance Analysis

- (1) Average Collection Turnover = Net Sales / Average Trade Receivables
- (2) Days Sales Outstanding = 365 / Average Collection Turnover
- (3) Average Inventory Turnover = Cost of Sales / Average Inventory
- (4) Average Payment Turnover = Cost of Sales / Average Trade Payables
- (5) Average Inventory Turnover Days = 365 / Average Inventory Turnover
- (6) Property, Plant and Equipment Turnover = Net Sales / Average Net Property, Plant, and Equipment
- (7) Total Assets Turnover = Net Sales / Average Total Assets

### 4. Profitability Analysis

- (1) Return on Total Assets = (Net Income + Interest Expenses \* (1 Effective Tax Rate))/Average Total Assets
- (2) Return on Equity = Net Income / Average Equity
- (3) Net Margin = Net Income / Net Sales
- (4) Earnings Per Share = (Net Income Preferred Stock Dividend) /Weighted Average Number of Shares Outstanding

### 5. Cash Flow

- (1) Cash Flow Ratio = Net Cash Provided by Operating Activities / Current Liabilities
- (2) Cash Flow Adequacy Ratio = Five-year Sum of Cash from Operations / Five-year Sum of Capital Expenditures, Inventory Additions, and Cash Dividend
- (3) Cash Flow Reinvestment Ratio = (Cash Provided by Operating Activities Cash Dividends)/(Gross Property, Plant and Equipment + Long-term Investments + Other Noncurrent Assets + Working Capital)

#### 6. Leverage

- (1) Operating Leverage = (Net Sales Variable Cost) / Income from Operations
- (2) Financial Leverage = Income from Operations / (Income from Operations Interest Expenses)

- 6.3 Audit Committee's Review Report for the Most Recent Year: See Appendix 1.2 (Page 172)
- 6.4 Financial Statements for the Most Recent Year (including the consolidated financial statements of the parent and subsidiaries): See Appendix 1.4 (Pages 174~286)
- 6.5 The Latest Individual Auditor's Report and Financial Statements Audited and Certified by CPA: See Appendix 1.5 (Pages 287~399)
- 6.6 The Company or its affiliates have experienced financial difficulties in the most recent fiscal year or during the current fiscal year up to the date of printing of the annual report: None.

# 7. Review of Financial Conditions, Financial Performance, and **Risk Management**

# 7.1 Analysis of Financial Status

(Consolidated entities)			Uni	t: NT\$ thousand
Year Item	Dec. 31, 2018	Dec. 31, 2019	Difference	%
Current Assets	23,522,686	20,257,048	(3,265,638)	(13.88)
Non-current Financial Assets at Fair Value through Profit or Loss	0	157,762	157,762	100.00
Financial Assets at Fair Value through other comprehensive income-noncurrent and investment under equity method	4,382,833	4,386,511	3,678	0.08
Property, Plant, and Equipment	22,435,949	20,577,106	(1,858,843)	(8.29)
Right-of-use Asset	0	1,564,443	1,564,443	Note
Intangible Assets	7,683,928	7,501,798	(182,130)	(2.37)
Other Assets	4,713,246	4,285,942	(427,304)	(9.07)
Total Assets	62,738,642	58,730,610	(4,008,032)	(6.39)
Current Liabilities	9,113,835	6,995,560	(2,118,275)	(23.24)
Non-Current liabilities	2,716,897	4,539,692	1,822,795	67.09
Total Liabilities	11,830,732	11,535,252	(295,480)	(2.50)
Share Capital	10,887,014	10,887,014	0	0
Capital Surplus	39,515,679	39,212,772	(302,907)	(0.77)
Retained Earnings	479,888	(3,269,622)	(3,749,510)	(781.33)
Other Equity Interest	(1,317,990)	(1,285,485)	(32,505)	(2.47)
Treasury Stocks	(211,008)	(325,490)	114,482	(54.25)
Non-Controlling Interest	1,554,327	1,976,169	421,842	27.14
Total Equity	50,907,910	47,195,358	(3,712,552)	(7.29)

Note: Titles reclassified due to adoption of IFRS 16 as of 2019.

# 7.1.1 Analysis on main causes for the change by more than 20% and amounting to NT\$10,000

- 1. Increase in non-current financial assets at fair value through profit or loss: In 2018 these were all rated as unrealized losses due to the higher market risk associated with fair value; in 2019 there was an increase in financial assets due unrealized gains from shares of companies not listed on TWSE/TPEx at fair value.
- 2. Increase in right-of-use asset: This was due mainly to the introduction of IFRS16 in 2019. Leased assets included land, property, plant and machinery, transportation and office equipment. The lease terms range from 2 to 50 years.
- 3. Decrease in current liabilities: This was due mainly to a reduction in accounts payable and payables on equipment in 2019 that in term led to a reduction in current liabilities.

- 4. Increase in non-current liabilities:
  - This was due mainly to long-term loans from banks for operating funds as well as the introduction of the new IFRS16 standards in 2019. Operating lease contracts increase both the amount of assets and liabilities, so the amount of Lease Liabilities Non-current was added.
- 5. Decrease in retained earnings: Primarily a result of the intensive market competition in 2019 resulting in the market price decline, decrease in operating revenue, generation of current net loss, and decrease in retained earnings accordingly.
- 6. Increase in treasury stocks:
  - This was due mainly to the buyback of treasury stock in 2019.
- 7. Increase in non-controlling interest:
  - This was due mainly to an increase in non-controlling subsidiaries in 2019.

# 7.1.2 Major Impact on Financial Position: Said deviations had no major impact on EPISTAR's financial position.

### 7.1.3 Future Plan on Financial Position: N/A.

# 7.2 Analysis of Financial Performance

(Consolidated entities)

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Year Item	2018	2019	Difference	%
Net Revenue	20,306,412	15,959,831	(4,346,581)	(21.40)
Cost of Revenue	(17,651,741)	(16,393,199)	(1,258,542)	(7.13)
Unrealized (gain) loss	23,878	1,471	(22,407)	(93.84)
Gross Margin (loss) Profit	2,678,549	(431,897)	3,110,446	116.12
Operating Expenses	(3,578,341)	(3,517,185)	(61,156)	(1.71)
Other Operating Income and Expenses	220,949	257,529	36,580	16.56
Operating (loss) Profit	(678,843)	(3,691,553)	3,012,710	443.80
Non-Operating Income and Expenses	(188,298)	(62,549)	(125,749)	(66.78)
(Loss) Profit before Income Tax	(867,141)	(3,754,102)	2,886,961	332.93
Income Tax Benefit (Expense)	361,277	(183,418)	544,695	150.77
Net (Loss) Profit	(505,864)	(3,937,520)	3,431,656	678.38
Other comprehensive (loss) income	(597,231)	(19,997)	(577,234)	(96.65)

# 7.2.1 Analysis on main causes for the change by more than 20% and amounting to NT\$10,000 thousand

- 1. This was due to a reduction in losses from unrealized sales between companies.

  This was due mainly to transactions between related parties. Inventory stock was progressively sold to end-customers leading to the realization of unrealized losses.
- 2. Increase in gross marginloss, operating loss, net loss etc.
  - This was due mainly to a major increase in production capacity by other LED companies in 2019, along with the US-China trade conflict, and weaker-than-expected overall market demand, that upset the balance between global LED supply-and-demand again. Increased market competition, plummeting market prices and decline in revenues led to an increase in gross loss. The Company's continued investment in the R&D of Mini LED applications as well as other new products and technologies to improve our future competitiveness meant an increase in both operating loss and net loss for this period.
- 3. Decrease in non-operating income and expenses

  Despite an increase in write-down on investment losses in 2019, large increases in the amount of
  gains from financial assets, reductions in asset impairment, and gains on bargain purchases all
  resulted in a reduction in non-operating expenses.
- 4. Increase in Income Tax Expense
  This was due mainly to temporary increase in deferred income tax assets from 2019.

5. Decrease in other comprehensive loss

This was due mainly to an increase in Unrealized gains (losses) from investments in equity instruments measured at fair value through other comprehensive income in 2019.

# 7.2.2 Forecast of sales volume and the basis thereof, and the effect thereof upon the Company's financial operations as well as measures to be taken in response

Though there is still a glut of production capacity and intense competition in the LED industry, the importance of energy-efficiency and environmental protection issues along with successes in LED miniaturization technology have led to an increasing number of new applications. There are still potential growth opportunities in the LED market. For example, demand is increasing from the application of Mini LED to super-fine pitch high-end displays and monitors. LED's penetration rate in automotive and other applications have continued to increase, there is increasing interest in LED plant lighting, as well as the use of infra-red (IR) LED in security surveillance and smart phone sensing, etc. Epistar's die shipments are therefore expects to top 689,238 million units in 2020. Due to the trend towards smart technology and high cost vs. performance ratios, continued investment in R&D to refine technologies and reduce costs will be needed in the future. Epistar will continue to release new products to improve our resource utilization, enhance the added value of our products and optimize our product combinations in a bid to secure more high-quality orders. It is hoped that the company will be back in the black again this year.

# 7.2.3 Analysis on changes of gross profit by 20%

(Consolidated entities)

Unit: NT\$ thousand

	Increase/decrease	Cause - advantageous (disadvantageous)			
Item	in previous and	Difference in	Difference in	Difference in	Difference in
	current periods	selling price	cost price	product portfolio	quantity
Gross Profit	(3,110,446)	(931,844)	(1,890,393)	257,604	(545,813)

# Notes to cause of increase/decrease:

Primarily a result of the production capacity expanded by peer companies in the LED market resulting in the inbalanced supply and demand in the market and the declination of utilization rate and changes of product portfolio, and decrease in gross profit accordingly.

# 7.3 Analysis of Cash Flow

# 7.3.1 Analysis of cash flow changes

(Consolidated entities) Unit: NT\$ thousand

Year Item	2018	2019	Difference	%
From Operating Activities	4,556,212	2,511,260	(2,044,952)	(44.88)
From Investing Activities	(3,789,426)	(2,523,482)	(1,265,944)	(33.41)
From Financing Activities	(1,942,297)	(128,030)	(1,814,267)	(93.41)

# Analysis of Cash Flow

### 1. Operating activities

This was due mainly to a decrease in operating income and EBITDA in 2019 that resulted in a decrease in cash inflow from operating activities. Cash inflow from operating activities in 2019 was therefore less than 2018.

# 2. Investing activities

This was due mainly to re-investments being classified in 2018 as financial assets at fair value through other comprehensive income resulting in an increase in cash outflow from investing activities. In 2019, this happened less often. A decrease in other financial assets and the inclusion of subsidiaries for the first time led to cash outflow from investment activities in 2019 being less than 2018.

#### 3. Financing activities

This was due mainly to the amount of long-term liabilities repaid in 2018 being higher than 2019. Cash outflow from financing activities in 2019 was therefore less than 2018.

#### Remedial Actions for Liquidity Shortfall:

The Company's net cash inflow from operating activities reached NT\$2.51 billion at the end of 2019 so there is no liquidity shortfall at this time.

#### 7.3.2 Liquidity Analysis for 2020

(Consolidated entities)

Unit: NT\$ thousand

Cash balance - beginning	Anticipated bet cash flow from operating activities in a year	Anticipated bet cash flow from investing and financing activities in a year	Anticipated Cash surplus (deficit)		ctions against deficit
(a)	(b)	(c)	(a)+(b)+(c)	Investing plan	Wealth management plan
5,252,823	3,786,000	(3,335,000)	5,703,823	-	_

Analysis of changes in cash flow for 2020

- 1. Operating Activities:
  - primarily a result of the profit earned upon deducation of such expenses without cash flow as depreciations and amortizations resulting in the net cash inflow.
- 2. Investing Activities:
  - Cash outflow was due mainly to capital expenditure on the introduction of new production equipment and for expansion of production capacity to support the development of new businesses.
- 3. Financing activities:
  - Cash inflow was due mainly to an increase in long-term borrowings.
- 7.4 Major Capital Expenditure Items and impact to finance and business for the most recent year
- 7.4.1 Major capital expenditures and capital sources of the Company and its subsidiaries in 2019:

Unit: NT\$ thousand

Project	Capital sources	Total funding
Purchase belong to equipment for business use	Own fund	2,982,472

#### 7.4.2 Impact on financial business

In 2019, in response to the needs for introducing new product, enhancing product specifications, developing III-V semiconductor foundry and improving competitiveness, the Company added new advanced process equipment, clean rooms, R&D equipment and machine upgrades, and also invested in strengthening environmental protection and safety facilities. The Company has also carefully evaluated the funding need for purchase of machine and equipment, and planned the utilization of working capital adequately. The following table shows that various turnover ratios are maintained stably. Meanwhile, the Company's consolidated operating revenue sources are stable and sufficient, and the Company is free from the risk over insufficient fund resulting from purchase of machine and equipment. Therefore, no significant adverse effect is produced to the financial situation of the Company and its subsidiaries.

Item	Year	2018	2019
Property, Plant, and Equipment Turnover (Times)		0.87	0.74
Current Ratio (%)		258.10	289.57

Note: The financial ratios are calculated based on the consolidated financial statements prepared by IFRSs and audited (reviewed) by the CPA.

7.5 Investment Policy for the most recent year, Main Causes for Profits or Losses, Improvement Plans, and the Investment Plans for the Coming Year

#### 7.5.1 Investment policies in the most recent year

The Company and subsidiaries' re-investment focus in the most recent year continued to be on III-V semiconductor foundry and new LED product applications. Investment relationships were used to expand target markets for the Company's products and to promote strategic partnerships that facilitate the effective utilization of resources, accelerate improvements in business performance and boost profitability.

#### 7.5.2 Analysis on investment income

The Company focuses mainly on strategic investments in LED-related industries. There was a slight easing in the US-China trade war after a "Phase 1" trade deal was reached in 2019 Q4. The Taiwanese stock market improved on its performance from last year on the back of record highs in Western stock markets, the emergence of high-tech product applications such as 5G, and the repatriation of Taiwanese companies. Re-investment gains totaling NT\$643,337 thousand were recognized by the Group in 2019 (Current financial assets at fair value through profit or loss, Non-current financial assets at fair value through other comprehensive income, and Investments accounted for using equity method).

#### 7.5.3 Corrective actions against investment and investment plan for following year

The Company shall continue to make adjustments to the investment structure in support of the Group's development strategy. Investments will continue to focus on III-V semiconductor foundry and new LED product applications in the coming year to actively search for an investment niche. Strategic cooperation will hopefully facilitate rapid business expansion, increase production penetration in different application markets, as well as increase the Company's overall competitiveness, growth and profit margin.

#### 7.6 Analysis of Risk Management

#### 7.6.1 Risk Management Policies and Organizational Structure

The Group's capital management policy is established by taking into account the industry characteristics, the Group's future development and changes in external environments. The Group plans the working capital of capital expenditures, investments and dividends required for the future based on the capital management policy, makes financial analysis, and examines its capital structure periodically and makes appropriate adjustments to ensure each of the Group members may grow and operate sustainably.

The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk, and price risk), credit risk, and liquidity risk. The Group's overall risk management policy focuses on the unpredictability of financial

markets and seeks to minimize potential adverse effects on the Group's financial position and financial performance. The risk management operations are executed by the Group's financial and accounting departments per the policy approved by the Board of Directors. The Group's financial and accounting departments work with the various business units within the Group closely to identify, assess and evade financial risk.

#### 1. Market risk

#### (1) Foreign exchange risk

The Company operates internationally and is exposed to foreign exchange risk arising from various currencies, primarily NTD, USD and RMB. Foreign exchange risk arises from future commercial transactions, recognized assets and liabilities and net investments in foreign operations. The Group has defined the relevant policy requiring that the entities within the Group should manage the foreign exchange rate risk over their respective functional curriencies. The various entities should hedge against the overall foreign exchange rate risk via Financial Dept. of the Group.

#### (2) Interest rate risk

The Group's interest rate risk arises from bank deposits and long-term borrowings. Borrowings issued at variable rates expose the Group to cash flow interest rate risk that is partially offset by cash and cash equivalents held at variable rates. Borrowings issued at fixed rates expose the Group to fair value interest rate risk. The Group's borrowings at variable rate were denominated in the RMB, USD, and NTD.

The analysis on sensitivity of interest rate risk refers to stimulation of the maximum effect of changes in interest rate to net profit after tax. The stimulation is carried out per quarter in order to ensure that the maximum loss falls within the limit set by the management.

#### (3) Price Risk

The Group's investments focus on domestic listed and unlisted equity instruments classified on the consolidated balance sheets as financial assets at fair value through profit or loss, financial assets at fair value through other comprehensive income, and financial assets available-for-sale. The price of such equity instruments would change due to the uncertainty in the future value of the investment portfolio. Therefore, the Group is exposed to the equity instrument price risk, while the Companny is not exposed to the commodity price risk.

#### 2. Credit risk

When the Group sold products, we set up a credit policy, evaluate risk of individual client, and factors that will affect payment, including financial position, credit rating, historical transaction records and other, and monitor credit limits.

Credit risk also arises from cash and cash equivalents, derivative financial instruments and deposits with banks and financial institutions. For banks and financial institutions, the Group decides whether to transact with them and the transaction amount based on their credit rating and financial position.

#### 3. Liquidity risk

Cash flow forecasting is performed by the entities within the Group individually and then summarized by the Group's Treasury Dept. The Group's Treasury Dept. monitors rolling forecasts of the Group's liquidity requirements to ensure it has sufficient cash to meet operational needs while maintaining sufficient headroom on its undrawn committed borrowing facilities at all times, so that the Group does not breach borrowing limits or covenants on any of its borrowing facilities. Such forecasting takes into consideration the Group's debt financing plans, covenant compliance, compliance with internal balance sheet ratio targets and external regulatory or legal requirements.

Surplus cash is invested in interest bearing current accounts, time deposits, money market deposits, and marketable securities, with appropriate maturities or sufficient liquidity to provide sufficient headroom and meet the above-mentioned forecasts.

7.6.2 Effects of Changes in Interest Rates, Foreign Exchange Rates and Inflation on Corporate Finance, and Future Response Measures

#### 1. Interest rate

- (1) For the Company's and its subsidiaries' net deposit, though the interest rate fluctuates under the government's policy, such fluctuation is still held acceptable. Therefore, the fluctuation in interest rate renders limited effect to the profitability.
- (2) The Company and its subsidiaries will keep watching the trend of interest rate in the financial market, strictly control the deposit and loan subject to floating and fixed interest rates, solicit for high-yield investment portfolio insofar as it is considered safe, seek the market average interest rate when evaluating the interest on bank loans, and keep in touch with banks to strive for the most favorable loan interest rate, in hopes of mitigating the risk potentially resulting from the fluctuation in interest rate.

#### 2. Foreign exchange rates

The Company's and its subsidiaries' consolidated exchange (losses) and profit were NT\$122,828 thousand and (NT\$127,760) thousand in 2018 and 2019. Based on the Company's and its subsidiaries' functional currency and the correspondent foreign currency, the Company judges the trend of foreign exchange rate and adopts adequate hedging strategies, and continues to strengthen the control over foreign currency position and adjust the exchange currency insofar as it is controllable, in order to reduce the Company's and its subsidiaries' foreign currency asset/liability difference and mitigate the effect of fluctuation in foreign exchange rate to the Company's income.

The Group keeps controlling foreign currency assets and liabilities, and hedges against the entire foreign exchange risk. Therefore, no material market risk is expected.

#### 3. Inflation

The Company and its subsidiaries will keep watching the changes in supply & demand and price of raw materials and supplies, and adjust inventory in a timely manner, and seek to reduce the operating cost through research and development of low-cost alternative raw materials and upgrading of the product brightness, in hopes of mitigating the effect of fluctuation in foreign exchange rate to the Company's income.

7.6.3 Policies, Main Causes of Gain or Loss and Future Response Measures with Respect to High-risk, High-leveraged Investments, Lending or Endorsement Guarantees, and Derivatives Transactions

#### 1. Loans to others

The total facility of Epistar to other companies or firms should be limited to 30% of the net worth of Epistar; however, in the case of loans to other companies or firms with the necessity of short-term financing demand, Epistar should only approve loans up to 10% of Epistar's net worth. Epistar may loan to the foreign companies of which Epistar directly or indirectly holds shares for 100% voting rights, but the amount limits of loans shall not exceed forty percent (40%) of Epistar's net worth, and the duration of loans shall be no longer than three years.

The limit of loan made by the subsidiary indirectly owned by the Company, Episky Corporation (Xiamen) Ltd., shall be no more than 50% of the net worth in the latest financial statements of Episky Corporation (Xiamen) Ltd. The limit of loan made by Episky Xiamen to any single counterpart shall be no more than 40% of the net worth in its latest financial statement.

The limit of loan made by the subsidiary indirectly owned by the Company, Epicrystal Corporation (Chang Zhou) Ltd., shall be no more than 30% of the net worth in the latest financial statements of Epicrystal Corporation (Chang Zhou) Ltd. The limit of loan made by Epicrystal (Chang Zhou) to any single counterpart shall be no more than 20% of the net worth in its latest financial statement.

The limit of loan made by the subsidiary indirectly owned by the Company, Yen-Rich Opto (Hong Kong) Limited, shall be no more than 40% of the net worth in the latest financial statements of Yen-Rich Opto (Hong Kong) Limited. The limit of loan made by Yen-Rich (Hong Kong) to any single counterpart shall be no more than 40% of the net worth in its latest financial statement.

December 31, 2019 Unit: NT\$ thousand

Lender	Borrower	Balance of loan A	Actual drawdown	A to 2019 Q4 Net value ratio (%)
EPISTAR Corporation	Jiangsu Canyang Optoelectronics Ltd.	430,500	86,160	0.95
EPISTAR Corporation	Episky Corporation (Xiamen) Ltd.	861,000	0	1.90
EPISTAR Corporation	Unikorn Semiconductor Corporation	300,000	300,000	0.66
_	Jiangsu Canyang Optoelectronics Ltd.	0	0	0.00
1 2 2	Jiangsu Canyang Optoelectronics Ltd.	344,400	172,200	7.86
Yen-Rich Opto (Hong Kong) Limited	Ecoled Venture Co., Limited	0	0	0.00
Yen-Rich Opto (Hong Kong) Limited	Lighting Investment Corp.	95,936	95,936	32.43
Total subsidiaries		2,031,836	654,296	4.49

Note: The net worth in the financial statements of the Company, Episky Xiamen and Epicrystal (ChangZhou), Yen-Rich (Hong Kong) 2019 was NT\$45,219,189 thousand, RMB498,639 thousand, RMB1,017,303 thousand and USD9,866 thousand respectively.

#### 2. Provision of endorsements and guarantees to others

In accordance with the Company's procedures for loaning to others: the ceiling on total endorsements/guarantees is 20% of the Company's net assets, and the limit on endorsements/ guarantees to a single party is 10% of its net assets. In addition, the total endorsements/guarantees made by the Company and its subsidiaries for others as a whoe shall be no more than 30% of the net worth referred to in its latest financial statement.

December 31, 2019 Unit: NT\$ thousands

Endorser/guarantor	Endorsee/guarantee	Balance of guaranty	Actual drawdown	A to 2019 Q4 Net value ratio (%)
EPISTAR Corporation	EPISKY Corporation (Xiamen) Ltd.	2,518,320	953,164	5.57
EPISTAR Corporation	Jiangsu Canyang Optoelectronics Ltd.	389,740	206,640	0.86
EPISTAR Corporation	Unikorn Semiconductor Corporation	699,900	175,658	1.55
EPISTAR Corporation	Yenrich Technology Corporation	149,900	0	0.33
Total consolidated su	bjects	3,757,860	1,335,462	8.31

Note: The net worth in the financial statement 2019 was NT\$45,219,189 thousand.

#### 3. Trading of derivatives

The Company and Luxlite (Shenzhen) Corporation Limited are engaged in trading of derivatives primarily in order to hedge against risk, in accordance with the "Acquisition or Disposal Procedures of Assets" and regulations governing trading of financial derivatives. The maximum loss limits on total trading and for individual contracts are both 15% of the contract amount.

From the beginning of 2019 until the date of publication of the annual report, the Company did not engage in trading of derivatives. To meet the need for hedging foreign exchange rate risk, Luxlite (Shenzhen) Corporation Limited was only engaged in forward foreign exchanges, but was not engaged in other high-risk transactions.

#### 7.6.4 Future Research & Development Projects and Corresponding Budget

The Company's and its subsidiaries' R&D entities are all based in Taiwan. The main R&D plan is led by the Company. The R&D expenditure scheduled to be invested in 2020 will remain growing stably. For details, please see Pages 103~104 herein.

7.6.5 The impact of material changes of local and foreign government policies and regulations In 2019, a major increase in production capacity by other LED companies, along with the US-China trade conflict and weaker-than-expected market demand all increased idle production capacity and increased our losses. The Company will continue to launch new products in the future to improve utilization and boost product value. Product combinations will also be optimized to secure more high-end orders in order to alleviate the pricing pressures in the traditional LED market. The Company is therefore monitoring and responding quickly to changes in local and foreign governments and policies.

7.6.6 Effects of and Response to Changes in Technology and the Industry Relating to The Company will take advantage of the new business opportunities offered by the coming of 5G through new technologies such as Mini LED, and III-V semiconductors such as GaN on Si and VCSEL.

The Company signed a strategic cooperation agreement with GCS Holdings (hereafter referred to as GCS-KY) at the start of 2019 for the Company and our Unikorn Semiconductor Corp. subsidiary to provide GCS-KY with 6" foundry services. GCS-KY and subsidiaries will in turn provide technical support for the III-V semiconductor production process. This strategic cooperation will hopefully combine the production capacity and technical strengths of both companies. It will facilitate further expansion of OEM products and customers in order to increase the scale of our operations and improve profitability.

The Company also announced at the end of 2019 a creation of joint venture with Leyard Optoelectronics (hereafter referred to as "Leyard"). The two groups made up of Yenrich Technology Corp. (a fully-owned subsidiary of Epistar), Episky Corp. (Xiamen), Leyard and its subsidiary will each own a 50% share in the new company to promote the research, development, production and application of Mini LED and Micro LED in order to better satisfy the demand from the LED market.

7.6.7 The Impact of Changes in Corporate Image on Corporate Risk Management, and the Company's Response Measures

The Company attaches great importance to corporate governance. The support of shareholders resulted in the 10th Board having a majority of independent directors. The introduction of professionals from different backgrounds with extensive professional knowledge, experience and insight injects new blood into the Company.

Epistar has always valued the relationship with clients because we believe that, in the tightly-interwoven LED industry, working closely with clients is critical to producing the highest quality end-products. That is why Epistar has developed a unique "Co-Activation Service Model," working alongside clients as their partner to co-design chips and production processes, while perfecting quality control. Through such close-knit partnerships, Epistar is able to meet the diverse needs of downstream businesses and consumers, and in essence, satisfy every Epistar partner's client.

7.6.8 Expected Benefits from, Risks Relating to and Response to Merger and Acquisition Plans

The Company conducts organization reform continually to reach internal efficiency and effectiveness through operation management.

ProLight Opto Technology Corporation is an important strategic partner of the Group. To promote industry cooperation through the integration of upstream and downstream resources in response to the business opportunities from VCSEL/Mini LED applications and the development of their packaging technology, ProLight Opto Technology Corporation became a subsidiary of the Epistar Group in April, 2019, through the acquisition of a 52.60% share in the company as disclosed in the consolidated statement. To respond more quickly to the needs of customers for Mini LED applications, Epistar is continuing to make ProLight Opto the contract manufacturer for the new Mini LED packaging. The strategic direction provided by Epistar Group should generate opportunities for profitability and increase shareholder returns.

7.6.9 Expected Benefits from, Risks Relating to and Response to Factory Expansion Plans In addition to continuing to consolidate sites and equipment to increase the size and management efficiency of individual plants, the Company is also adding advanced production equipment, clean rooms, R&D equipment, machine upgrades, environmental protection and industrial safety facilities in response to the introduction of new Mini LED products, product upgrades, research and development in the III-V semiconductor contract manufacturing business, and improvements to competitiveness. Capital expenditure in 2020 is estimated to be NT\$6 billion. Once mass production scheduled to commence in 2020 Q4 it should boost the Company's revenues and profits.

## 7.6.10 Risks Relating to and Response to Excessive Concentration of Purchasing Sources and Excessive Customer Concentration

#### 1. Purchase

There were no material changes in the single supplier of major raw materials for the most recent two years. Notwithstanding, since the suppliers are the Company's important long-term partners, in order to maintain the fair code of business ethics with all suppliers, maintain the Company's corporate identity and honest enterprise culture, all suppliers shall comply with the Company's requirements about integrity. Among the other things, the purchase amount from the top ten suppliers does not exceed 20% of the total purchase amount. Apparently, there is no risk over concentration of purchases.

Due to the recent impact of the coronavirus epidemic on the supply chain, the Company is liaising closely with suppliers to ensure the continuity of supply and keep the production expansion on schedule.

#### 2. Sales

In terms of the top ten customers in the consolidated statements, the sales to customers have not exceeded 20% of the total operating revenue for the most recent two years. The Company will continue to solidify the cooperative relationshihp with existing customers and also utilize the core technology to develop existing LEDs and other III-V semiconductor products to help the Company develop in different fields. Meanwhile, the Company will engage in the patent or technology cooperation or strategic cooperation with the customers of the Company's product-related applications to accelerate the virtual vertical integration of industries, expand the product marketing channels and co-develop products and markets. Therefore, there is no risk over sales concentrated on any specific company.

7.6.11 Effects of, Risks Relating to and Response to Large Share Transfers or Changes in Shareholdings by Directors, Supervisors, or Shareholders with Shareholdings over 10%:

In consideration of tax planning, Chairman Biing-Jye Lee bestowed 700,000 common shares of Epistar (2448-TW) to his spouse in April 2019, while no effect would be produced to the Company's right of management.

Full board elections were held at the Company's 2019 General Shareholders' Meeting. The support of shareholders saw a majority of independent directors elected to the 10th Board. Even though the legal person directors from the 9th Board have now resigned, the Company still maintains close and friendly relationships with all of them. There were no large changes in shareholder at the time of this report's publication.

7.6.12	Effects None.	of,	Risks	Relating	to an	d F	Response	to	the	Changes	in	Management	Rights:

	Beginning d
	Amount of the dispute
Non-litigeous Matters	General issue
7.6.13 Litigeous or	Case

Case	General issue	Amount of the dispute	Beginning date of the lawsuit	Litigant	Current progress
Patent litigation	On October 12, 2012, Trustees of Boston University filed suit against the Company, alleging patent infringement of US5,686,738, which is related to a blue LED chip containing non-single crystalline GaN buffer.	Subject to the outcome of the proceeding	2012.10.12	Trustees of Boston University	The appeal court revoked the district court's judgment on July 5, 2018 and held that the patent at issue should be invalid. Accordingly, the Company won the appeal.
Civil action arising from accounts receivable & product defect	Disputes of accounts receivable & defective product between the Company and Customer cannot be settled, and both parties filed the complaint.	Customer filed a complaint accusing the damage caused by the defective product and claimed NT 25,867 thousand dollars to Epistar; Epistar made a counterclaim to demand that customers should pay NT 2,917 thousand dollars for the late payment of products.		Customer: Alder Optomechanical Corp.	The Company and Customer already reached settlement. After Customer paid NT 1,000,000 dollars to the Company as the settlement, both parties have withdrawn the lawsuit on January 28, 2019.
Patent litigation	The Company sued Lowe's for patent infringement under five US patents, which are US6,346,771 · US8,492,780 · US7,560,738 · US8,791,467 and US8,587,020. The products at issue are LED filament and light bulb.	Subject to the outcome of court judgement	2017.04.28	Lowe's	The case is currently pending trial by the United States District Court of California.
Patent litigation	The Company sued All Star Lighting Supplies for patent infringement under eight US patents, which are US7,355,208 · US7,489,068 · US7,560,738 · US8,791,467 · US9,065,022 · US9,257,604 · US9,488,321 US9,664,340. The products at issue are LED filament and light bulb.	Subject to the outcome of court judgement	2017.10.13	All Star Lighting Supplies	Already reached settlement.

#### 7.6.14 Other important risks, and mitigation measures being or to be taken:

Following the global development of Fintech, the information security risk to be dealt with by enterprises is increasing day by day. Meanwhile, in order to protect the staff's painstaking results, the Company established the "Information Security Management Review Committee" and "Trade Secrets Committee" in 2010 and 2018.

#### Information Security Management Review Committee

The Committee holds the meeting once per six months, which shall be attended by the Committee members. The meeting is held in April and October of each year and responsible for reviewing and resolving the (1) information security policy, (2) validity of the information security policy and control measures, (3) resources required by information security. The structure, information security policy and specific control programs of the Company's information security risk management are stated as following:

#### 1. Policy and principles

- (1) The information risk assessment on information assets shall take into account the related laws and business needs, in order to ensure the needs for information security, establish the standard operating procedures, take appropriate information security control measures and ensure the security of information assets.
- (2) Establish the assessment or appraisal system based on the personnel's functions and competencies, and organize the information security educational training and promotional activities, if necessary.
- (3) The granting of the right to access information assets shall be subject to the business needs and take into account the minimum authority, separation of responsibilities and review of independence.
- (4) Establish the information security incidents management procedure to ensure timely response to and control and processing of any incidents, and prepare the business continuity plan and perform periodic drills to ensure the continuing operation of the information system or information service.
- (5) Process and protect personal information and intellectual property rights in accordance with the Personal Information Protection Act and intellectual property rights.
- (6) Conduct the information security audit periodically to ensure that the information security management system is practiced.
- (7) Any violations of the policy and information security-related requirements shall be subject to the punishment rendered by related laws or the Company's personnel regulations.
- (8) Establish the "Declaration of Information Security" for the Company's staff separately, in order to ensure that the staffs are aware of the Company's information security requirements.

#### **Declaration of Information Security**

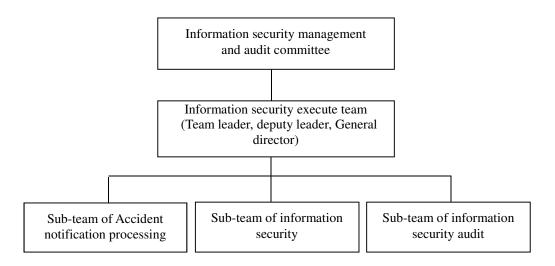
The ultimate goal for the Company's information security operations resides in: ensuring the effective operation of the Company's key business information processing operations through the control over personnel, operations and information technology to prevent any security incidents about confidentiality, completeness and availability affecting the key business operations from arising during the processing of information and support the

Company to achieve the goal for becoming a global photoelectrics manufacturing center.

The Company's information security operations are based on the systematic risk assessment and risk management, and implement the risk control measures by weighing management and technology evenly. The same are practiced by the staff in their daily life, so that they may work with each other to realize the Company's information security goals identified as following:

- The protection of information related to key business completely satisfies the Company's requirement and related laws & regulations.
- The information processing procedure and processing result for key business and support of administrative operations shall be accurate and correct completely.
- The information system and information processing services shall be non-interrupted.

#### 2. Structure



#### 3. Members, operations and functions

(1) Committee members

President, VP of Information Technology Center, internal auditor officer, Director-General of Intellectual Property & Legal Affairs Div., and manager of Legal Affairs Dept. of Intellectual Property & Legal Affairs Div.

(2) Execution team members

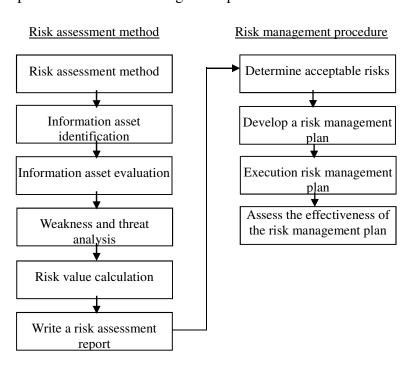
Team leader, deputy leader and secretary

(3) Operations & functions

Position/Role	Operations & Functions
Information Security	• Responsible for reviewing and resolving the motions related to
Management Review	the Company's information security management.
Committee	<ul> <li>Review and approve information security policy.</li> </ul>
Chairperson	<ul> <li>Review the validity of information security policy-based goals and control measures.</li> </ul>
	<ul> <li>Review the scope of resources required by information security.</li> </ul>
Information Security	• Responsible for reviewing and resolving the motions related to
Management Review	the Company's information security management.
Committee	<ul> <li>Review and approve information security policy.</li> </ul>
Convener	

Position/Role	Operations & Functions
	• Review the validity of information security policy-based goals
	and control measures.
	• Review the scope of resources required by information
	security.
	<ul> <li>Coordinate information security-related operations.</li> </ul>
	• Continue to improve information security management system.
inicimation security	• Responsible for reviewing and resolving the motions related to
Management Review	the Company's information security management.
Committee	<ul> <li>Review and approve information security policy.</li> </ul>
Member	• Review the validity of information security policy-based goals
	and control measures.
	• Review the scope of resources required by information
	security.
imonimum security	• Select competent personnel based on the specific information
Execution Team	security role and position.
Beader	<ul> <li>Maintain the awareness toward information security.</li> </ul>
	<ul> <li>Coordinate information security-related operations.</li> </ul>
	<ul> <li>Confirm information security risk and implement risk management.</li> </ul>
	• Conduct independent audit on information security
	management system.
	<ul> <li>Continue to improve information security management system.</li> </ul>
	• Help the team leader select competent personnel based on the
Execution Team	specific information security role and position.
Deputy Leader	• Help the team leader maintain the awareness toward
	information security.
	• Help the team leader coordinate information security-related
	operations.
	• Help the team leader confirm information security risk and
	implement risk management.
	Help the team leader conduct independent audit on information
	security management system.
	Help the team leader continue to improve information security
	management system.

#### 4. Risk evaluation procedure and risk management procedure



- 5. Timing and approach to conduct the risk evaluation
  - (1) Timing to conduct the risk evaluation
    - The risk evaluation shall be conducted once per six months, and the scope of evaluation shall be decided by the Information Security Execution Team Leader.
    - In the event of changes in organization, operating procedures or information assets, or outbreak of material information security incidents, it is allowed to conduct the risk evaluation on information assets falling in the specific scope.

#### (2) Approach to conduct the risk evaluation

- The value of risk (RoA) of information assets consists of such elements as the value of information assets, vulnerability of assets, possibility of threats and effect thereof, and is calculated by multiplying by the value of information assets, vulnerability and possibility of threats and taking into account the effect produced by the threats on the confidentiality, completeness and availability.
- Identification of information assets (identification and inventory taking) refers to the inventory taking of information assets pursuant to the "Operating Procedures for Managing Information Assets" (PIS090003).
- Valuation of information assets (assessment on value) refers to the evaluation conducted by the information assets owner on the confidentiality, completeness and availability, and subject to the characteristics of organization, and requirements by laws and regulations.
- 6. Management system/internal audit/periodic reporting to Board of Directors / preventive measures

#### (1) Frequency of audit

Conduct the information security internal audit per six months (may be integrated into the Company's internal audit operations, if necessary), and conduct the audit on such specific purposes as information security incidents and material changes in the information system from time to time.

#### (2) Requirements about internal auditors

In order to ensure the objectivity and independence in the process of audit, the self-audit shall be avoided. The internal auditors shall have the experience in audit on information security systems or attending information security audit-related training programs (including the Company's internal training courses).

#### (3) Audit plan

• It is necessary to plan and prepare the information security audit plan in advance as the guide for audit. The contents thereof shall include the basis, scope, procedure, personnel, items and schedule of the audit, and executed upon approval of the Convener of Information Security Management Review Committee. The audit plan format may refer to the document numbers and standards under the information security management system.

• If the information security audit is integrated into the Company's interal audit operations, the information security plan shall be subject to the approval of the Convener of Information Security Management Review Committee and provided to the Audit Office to be included into the Company's internal audit plan for implementation.

#### (4) Reporting to Board of Directors

The contents about computerized information system processing and information security inspection have been reported to the Board of Directors on November 12, 2018, and relevant suggestions were posed toward the deficiencies. The deficiencies were followed up and corrected.

#### (5) Preventive measures

The Company has not yet taken out any information security insurance. Notwithstanding, the Company still spares no efforts to govern the information security and enhance its defensive ability. So far, no infringement upon suppliers' or customers' privacy, disclosure of confidential information or hacking into systems had been found.

The Information Security Execution Team performs the business continuity drill and information security phishing mail drill from time to time, and the restoration procedure in the event of any abnormality in the drilled system, and conducts period audits thereon. The staff accepting the phishing mail shall attend the training and post-test about the information security phising mails again, in order to reduce the staff's chances to suffer attacks of virus, abducted encryption of data, disclosure of confidential information due to horizontal infection, or system invasion and paralisis.

#### **Trade Secrets Committee**

The information security is very important. Notwithstanding, it is also necessary to protect the security of the Company's trade secrets and a third party's confidential information held by the Company to ensure the staff's results, maintain the Company's competitiveness and prevent the Company's important information from being disclosed. On January 26, 2018, the Company formed the "Trade Secrets Committee".

#### 1. Structure

Formed by the President and the senior management of such units as Information Technology Center, Audit Office, Human Resources Center, Intellectual Property & Legal Affairs Div., and holding the meeting once a month.

#### 2. Scope and duty of protection

The confidential information includes any information, document, file, formula, product and sample of the Company and its subsidiaries which has not yet been disclosed to the public, or is identified confidential, sensitive or essential. Any violations of the regulations governing protection of trade secrets shall be punished upon the resolution made by Trade Secrets Committee, subject to the materiality of the case.

#### 3. Implementation of educational training

- 3.1. Periodic circulation of e-news to perform the educational training and promote laws & regulations to the whole staff.
- 3.2. Irregular arrangement for related experts/trainees to perform educational training on specific employees

#### 7.7 Other important notes:

The 2019 novel coronavirus disease (COVD-19, or commonly referred to as "Wuhan Pneumonia") was designated by the Ministry of Health and Welfare on January 15, 2020, as category 5 communicable disease under the name "Severe Special Infectious Pneumonia." The Company is dynamically adjusting our prevention and response plan based on developments in the epidemic. These include the definition of multi-tiered epidemic control and response measures as outlined below. We hope this will help safeguard the health of our employees by preventing the intrusion and spread of the disease.

#### 7.7.1 Epidemic Reporting Measures

Must be reported to the Company with a public statement is to be issued by the spokesperson if necessary.

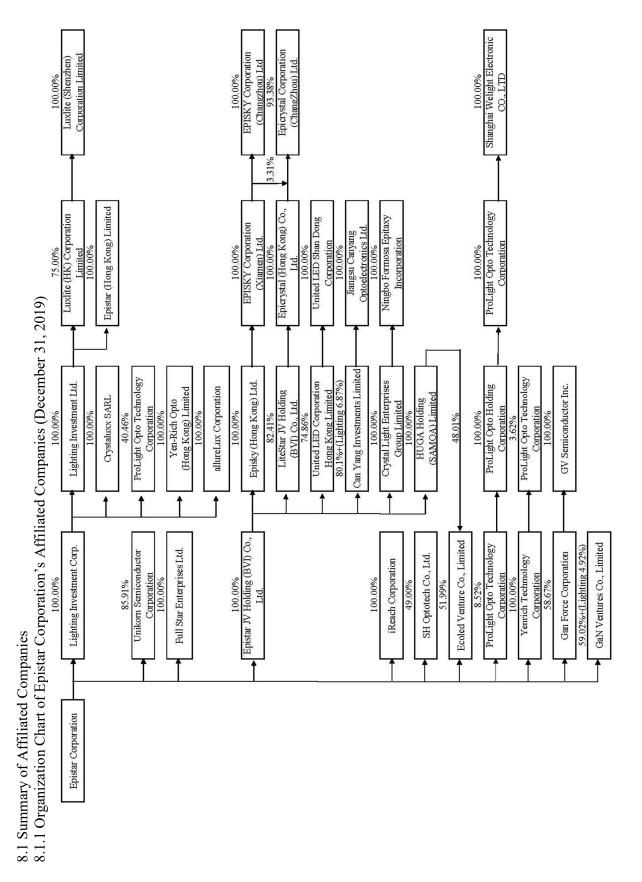
#### 7.7.2 Epidemic Prevention Measures

- 7.7.2.1 Regular temperature screenings for employees and online registration system. All personnel that enter Company premises must wear a face mask at all times. If necessary, no visitors will be allowed into the plants.
- 7.7.2.2 Minimize movement between plants and unnecessary meetings. Meetings are to be conducted through video-conferencing if necessary and all overseas business trips are suspended.
- 7.7.2.3 Strengthening of environmental hygiene management and disinfection.
- 7.7.2.4 A switch to lunch boxes during meal times. Employee meal times will be staggered. Employees will be separated by empty rows and seats, and the frequency of conversations reduced.
- 7.7.2.5 Increase education on protective self (personal) hygiene, frequent hand washing, minimize entry into crowded public spaces, as well as the provision of proactive care and support.
- 7.7.2.6 Planning for data backup operations, alternative offices and back-up manpower including separation of office areas.

#### 7.7.3 Administrative Management

- 7.7.3.1 Attendance and absenteeism regulations for self-health management and home quarantines shall be handled in accordance with government policy and the relevant Company regulations.
- 7.7.3.2 Employees will work from off-site if necessary. Business continuity planning and measures have been devised to ensure continuity of operations.

# 8. Special Disclosure



8.1.2 Basic Information of Affiliates

			Unit: \$ t	Unit: \$ thousandsUSD, RMB and EUR
Company Name	Date of establishment	Address	Capital Stock	Major business
Lighting Investment Corp.	2007.11.08	2F., No.62, Guanghua 2nd St., North Dist., Hsinchu City 300, Taiwan (R.O.C.)	NTD 2,514,785	Professional investment.
Epistar JV Holding (BVI) Co., Ltd.	2010.01.21	Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands	USD 482,780	Professional investment.
Yenrich Technology Corporation	2009.12.11	9F1, No.67, Ziyou Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)	NTD 600,000	Manufacture & sales of Electronic component
iReach Corporation	2018.01.09	3F., No.50, Yuanqu 2nd Rd., Hsinchu Science Park, Hsinchu 300, Taiwan (R.O.C.)	NTD 45,000	Design, manufacture & sales of semiconductor light emitting device, package and module
SH Optotech Co., Ltd.	2009.09.25	1F 22, Keya Rd., Central Taiwan Science Park, Taichung 42881, Taiwan	NTD 64,881	Manufacture & sales of LED products.
Ecoled Venture Co., Limited	2014.11.26	Unit 1405-1406, Dominion Centre 43-59 Queen's Road East Wanchai, Hong Kong	USD 3,313	Sales of Smart Lighting prodeuts.
Unikorn Semiconductor Corporation	2018.10.11	1F, 5, Li-hsin 5th Rd., Hsinchu Science Park, Hsinchu 300, Taiwan	NTD 582,000	III-V Semiconductor Foundry business
Full Star Enterprises Limited	2008.10.03	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 8,660	Professional investment.
GaN Ventures Co., Limited	2016.08.04	Unit 1405-1406, Dominion Centre 43-59 Queen's Road East Wanchai, Hong Kong	USD 14,004	Investment & sales of electronic Components.
Lighting Investment Ltd.	2008.05.16	Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands	USD 4,564	Professional investment.
Crystaluxx SARL	2013.02.28	40, avenue Monterey, L-2163 Luxembourg	EUR 3,320	Professional investment.
Yen-Rich Opto (Hong Kong) Limited	2013.03.22	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 8,010	Sales of LED products.
allureLux Corporation (Note 1)	2018.03.02	9F-1, No.69, Ziyou Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)	NTD 3,000	LED lighting fixture development and design and technical services

			Unit: \$ th	Unit: \$ thousandsUSD, RMB and EUR
Company Name	Date of establishment	Address	Capital Stock	Major business
Episky (Hong Kong) Ltd.	2008.05.06	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 68,000	Professional investment.
United LED Corporation Hong Kong Limited	2009.10.29	Room 2702-03, C.C.Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 89,500	Professional investment.
LiteStar JV Holding (BVI) Co., Ltd.	2010.02.22	Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands	USD 132,050	Professional investment.
Can Yang Investments Limited	2009.11.24	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 76,000	Professional investment.
Crystal Light Enterprises Group Limited	2001.09.28	TrustNet Chambers, P.O. Box3444 Road Town, Tortola, British Virgin Islands	USD 200	Professional investment.
HUGA Holding (Samoa) Limited	2011.01.13	Vistra Corporate Services Centre, Ground Floor NPF Buildinf, Bach Road, Apia Somoa.	USD 12,551	Professional investment.
GV Semiconductor Inc.	2017.06.28	1245 South Winchester Blvd, Suite 300, San Jose, CA 95128 United States of America	USD 6,680	Manufacturing of Semiconductors and seller of technology components
Luxlite (HK) Corporation Limited	2008.12.18	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 3,800	Professional investment.
Epistar (Hong Kong) Limited	2013.04.25	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 83	Professional investment.
EPISKY Corporation (Xiamen) Ltd.	2006.12.13	99, Xiang Xing Rd., Xiang'An Branch, Torch Hi-Tech Industrial Development Zone, Xiamen, China	USD 68,000	Manufacture & sales of LED products.
United LED Shan Dong Corporation	2010.02.25	NO.6688 Chongwen Road Jining High & New Technology	USD 84,000	Manufacture & sales of LED products.
Epicrystal (Hong Kong) Co., Ltd.	2010.03.05	Room 2702-03, CC Wu Building, 302-8 Hennessy Road, Wanchai, Hong Kong	USD 146,600	Professional investment.
Jiangsu Canyang Optoelectronics Ltd.	2009.10.12	No.9, Zhouzhuanghe Road, Economic Development Zone, Yangzhou, Jiangsu Province, PRC, 225009	USD 192,000	Production and sales of Light-emitting diode epi wafers and chips.
Ningbo Formosa Epitaxy Incorporation	2004.06.23	Room 5088-17, 5F, No.1558, Jiangnan Road Ningo, China	USD 200	Sales of LED products.

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Unit	;

Company Name	Date of establishment	Address	Capital Stock	Major business
Luxlite (Shenzhen) Corporation Limited	2009.02.16	Room 1501,15F, Zhiju Building, No.1 QiTian Road, Linyi Avenue, Taoyuan Street, Nanshan District, Shenzhen	USD 3,000	Sales of LED products.
EPISKY Corporation (Changzhou) Ltd.	2014.02.27	F1, Building 10, No.377 South Wuyi Road, Wujin National Hi-tech Industrial Zone	RMB 20,000	Manufacture & sales of LED products.
Epicrystal Corporation (ChangZhou) Ltd.	2010.04.07	No.66-8, Yanghu Rd. Wu Jin Hi-Tech Industrial Development Zone, Changzhou, Jiangsu	USD 157,000	Manufacture & sales of LED products.
ProLight Opto Technology Corporation	2004.10.22	No.89, Xiyuan Rd., Zhongli Dist., Taoyuan City 320, Taiwan (R.O.C.)	NTD 680,620	Manufacture & sales of LED packaging.
ProLight Opto Holding Corporation	2010.11.11	No.24, Lesperance Industrial Estate, MAHE Seychelles	USD 150,000	Professional investment.
ProLight Opto Technology Corporation	2010.11.15	No.24, Lesperance Industrial Estate, MAHE Seychelles	USD 150,000	Professional investment.
Shanghai Welight Electronic Co., Ltd.	2011.12.02	Room 2308, No. 915 Zhenbei Road, Putuo District, Shanghai	USD 150,000	Sales of LED products.
Gan Force Corporation	2019.10.07	9F1, No.69, Ziyou Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)	NTD 1,812	Manufacturing of Semiconductors and seller of technology components

Note 1: allureLux Corporation renamed to GaNrich Semiconductor Corporation in February 2020.

8.1.3 Shareholders representing both holding companies and subordinates: None.

8.1.4 Industries Covered by all the Affiliates: Including optoelectronic industry and investment industry.

8.1.5 Name of each affiliated company's Director, Supervisor, and President

				As of December 31, 2019	r 31, 2019
N. Company	Ę÷:E	Name or Representative	ative	Shareholding	<b>b</b> 0
Company Ivame	11116	Name	Legal representative	Shares	%
Lighting Investment Corp.	Chairman	Epistar Corporation	Chin-Yung Fan	251,478,518 100.00%	100.00%
	Director	Epistar Corporation	Min-Hsun Hsieh		
	Director	Epistar Corporation	Tzu-Hsiang Tai		
	Supervisor	Epistar Corporation	Tao-jung Lin		
	President	Yung-Sheng Yu		0	0.00%

As of December 31, 2019

		Name or Rengesentative	tative	Shareholding	(1)
Company Name	Title	Nama	I agal rapracantativa	Charae	0%
Enistar IV Holding (BVI) Co. 1.td	Chairman	Biing-Ive I ee	rogai representative	Omaco	%000
Lpism 3 troums (D'1) co., Lm.	Chamman	Line syc acc			0,00.0
Yenrich Technology Corporation	Chairman Director	Epistar Corporation	Biing-Jye Lee Min Ham Heish	60,000,000	100.00%
	Discusi	Entrancoupolation	Ct.:t. Ct.: Ct.:		
	Director 2 .	Epistar Corporation	Shin-Shien Chang		
	Supervisor	Epistar Corporation	Yung-Sheng Yu		500
	Fresident	omn-onien Chang		0	0.00%
iReach Corporation	Chairman	Epistar Corporation	Tao-jung Lin	7,000,000	100.00%
	Director	Epistar Corporation	Shih-Shieh Chang		
	Director	Epistar Corporation	Chin-Yuan Chen		
	Director	Epistar Corporation	Rong-Yih Hwang		
	Director	Zhi-Jiang Lu		preference share 520,000	5.78%
	Supervisor	Liu Jui Chen		0	0.00%
SH Optotech Co., Ltd.	Chairman	Seoul Optodevice Co., Ltd.	Hyeon Jong Yu	2,725,007	42.00%
	Director	Seoul Optodevice Co., Ltd.	Woo Chul Kwak		
	Director	Epistar Corporation	Lin-Tien Yang	3,179,176	49.00%
	Director	Epistar Corporation	Wen-Chung Lee		
	Supervisor	Tao-jung Lin		0	0.00%
	Supervisor	Seoul Semiconductor Co., Ltd.	Jong Hyeon Chae	583,928	%00.6
	President	Lin-Tien Yang		0	0.00%
Ecoled Venture Co., Limited	Chairman	Shih-Shieh Chang		0	0.00%
	Director	Yung-Sheng Yu		0	0.00%
Unikorn Semiconductor Corporation	Chairman	Epistar Corporation	Biing-Jye Lee	100,000,000	85.91%
	Director	Epistar Corporation	Yung-Sheng Yu		
	Director	Epistar Corporation	Ming-Da Jin		
	Director	Epistar Corporation	Wei-Shih		
	Director	Epistar Corporation	Shi-Yi Chen		
	Supervisor	Epistar Corporation	Tao-jung Lin		
	President	Wei-Shih		0	0.00%
Full Star Enterprises Limited	Director	Shih-Shieh Chang		0	0.00%
GaN Ventures Co., Limited	Chairman	Biing-Jye Lee		0	0.00%
	Director	DHAYAGUDE Tushar Heramb		0	0.00%
	Director	SHAH Ashok Deepak		0	0.00%
	Director	Min-Hsun Hsieh		0	0.00%
	Director	Ivan-rang wu		l 0	0.00%

As of December 31, 2019

		N D.		CI1-11:	
Company Name	Title	Name of Representative	lalive	Snarenolding	
String time	ATTI-	Name	Legal representative	Shares	%
Lighting Investment Ltd.	Director	Chin-Yung Fan		0	0.00%
Crystaluxx SARL	Director Director	Lighting Investment Corp. Lighting Investment Corp.	Chin-Yung Fan Tzu-Hsiang Tai	33,200	100.00%
Yen-Rich Opto (Hong Kong) Limited	Chairman	Shih-Shieh Chang		0	0.00%
allureLux Corporation (Note3)	Chairman	Lighting Investment Corp.	Shih-Shieh Chang	3,000,000	100.00%
	Director	Lighting Investment Corp.	Yung-Sheng Yu		
	Director	Lighting Investment Corp.	Chin-Yung Fan		
	Supervisor	Lighting Investment Corp.	Liu Jui Chen		
Episky (Hong Kong) Ltd.	Director	Chin-Yung Fan		0	0.00%
United LED Corporation Hong Kong Limited	Chairman	Jen-Chau Wu		0	0.00%
	Director	Lin-Tien Yang		0	0.00%
	Director	Chang Bao		0	0.00%
	Director	Chau-Shen Yu		0	0.00%
	Director	Mong Ting Hung		0	0.00%
	Supervisor	Yung-Sheng Yu		0	0.00%
	Supervisor	Yi-Chi Liou		0	0.00%
LiteStar JV Holding (BVI) Co., Ltd.	Director	Biing-Jye Lee		0	0.00%
	Director	Jen-Chau Wu		0	0.00%
	Director	Yuan-Ping Chuang		0	0.00%
Can Yang Investments Limited	Chairman	Chin-Yung Fan		0	0.00%
	Director	Jen-Chau Wu		0	0.00%
	Director	Chen Ou		0	0.00%
	Director	Cheng-Chi Chiang		0	0.00%
	Director	Lin-Tien Yang		0	0.00%
	Director	Suntrap Corporation Limited	Ching-Huei Wu	2,679,063	3.53%
Crystal Light Enterprises Group Limited	Director	Lin-Tien Yang		0	0.00%
HUGA Holding (Samoa) Limited	Director	Epistar JV Holding(BVI) Co., Ltd	Chin-Yung Fan	12,551,035	100.00%
GV Semiconductor Inc.	Chairman	Biing-Jye Lee		0	0.00%
	Director	DHAYAGUDE Tushar Heramb		0	0.00%
	Director	Min-Hsun Hsieh		0	0.00%
	Director	Nan-Yang Wu		0	0.00%

0.00% 12.50% 12.50% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% As of December 31, 2019 0.00% 100.00% 100.00% 100.00% 100.00% Shareholding 475,000 0 0 0 NA (Note 1) NA (Note 1) NA (Note 1) NA (Note 1) 0 0 000 NA (Note 1) NA (Note 1) NA (Note 1) 475,000 Shares Legal representative Shih-Shien Chang Rong-Yih Hwang Rong-Chang Lin Wen-Chieh Kuo Nam Han-Yong Ching-Huei Wu Chin-Yung Fan Lin-Tien Yang Hui-Nin Chen Jen-Chau Wu Jen-Chau Wu Jen-Chau Wu Jen-Chau Wu Jimbo Wang Chang Bao Talung Ho Chen Ou Name or Representative Crystal Light Enterprises Group Limited Crystal Light Enterprises Group Limited Crystal Light Enterprises Group Limited United LED Corporation Hong Kong Limited United LED Corporation Hong Kong Limited Can Yang Investments Limited Episky (Hong Kong) Ltd. Name Kuang-Chung Chen Yuan-Ping Chuang Cheng-Chi Chiang Shih-Shien Chang Hsien-Chun Weng Rong-Yih Hwang Wen-Chieh Kuo Chen-Chen Liu Yung-Sheng Yu Chin-Yung Fan Chin-Yung Fan Lin-Tien Yang Lin-Tien Yang Biing-Jye Lee Jen-Chau Wu Wei-Kuo Su Chang Bao Executive Director Title Supervisor Supervisor Supervisor Chairman Chairman Chairman President President President Director Ningbo Formosa Epitaxy Incorporation Jiangsu Canyang Optoelectronics Ltd. United LED Shan Dong Corporation EPISKY Corporation (Xiamen) Ltd. Luxlite (HK) Corporation Limited Epicrystal (Hong Kong) Co., Ltd. Company Name Epistar (Hong Kong) Limited

100.00% (Note 2) 2.66% 0.87% 0.00% 0.00% 3.31% 1.68% As of December 31, 2019 100.00% 0.00% 93.38% 100.00%40.46% 8 Shareholding NA (Note 1) 590,241 NA (Note 1) 1,141,000 1,813,710 27,539,234 Shares Legal representative Kuang-Chung Chen Yuan-Ping Chuang Shih-Shien Chang Hsien-Chun Weng Rong-Yih Hwang Liang-Sheng Chi Feng-Ming Chen Li-Cheng Hung Tzu-Hsiang Tai Chin-Yung Fan Tzu-Hsiang Tai Tzu-Hsiang Tai Li-Yuan Huang Chen-Chen Liu Lin-Tien Yang Lin-Tien Yang Jen-Chau Wu Biing-Jye Lee Jen-Chau Wu Tao-jung Lin Tao-jung Lin Chang Bao Chang Bao Talung Ho Name or Representative Lite-On Electronics (Tianjin) Co., Ltd PISKY Corporation (Xiamen) Ltd., EPISKY Corporation (Xiamen) Ltd. EPISKY Corporation (Xiamen) Ltd. EPISKY Corporation (Xiamen) Ltd. EPISKY Corporation (Xiamen) Ltd. **EPISKY** Corporation (Xiamen) Ltd. EPISKY Corporation (Xiamen) Ltd. EPISKY Corporation (Xiamen) Ltd Luxlite (HK) Corporation Limited Juxlite (HK) Corporation Limited Luxlite (HK) Corporation Limited Epicrystal (Hong Kong) Co., Ltd., Luxlite (HK) Corporation Limited Epicrystal (Hong Kong) Co., Ltd. Epicrystal (Hong Kong) Co., Ltd Ding Geng Investment Co., Ltd. ighting Investment Corp. Lighting Investment Corp. Lighting Investment Corp. Name Chen-Chen-Lun Hsing Cheng-Chi Chiang Hui-Chung Chiang Che-Hsiung Chen Evervaliant Corp. Liang-Sheng Chi Lin-Tien Yang Chih-Ta Yen Independent director Independent director Independent director Title Supervisor Supervisor Supervisor Chairman Chairman Chairman Chairman President President President Director Epicrystal Corporation (ChangZhou) Ltd. Luxlite (Shenzhen) Corporation Limited EPISKY Corporation (Changzhou) Ltd. ProLight Opto Technology Corporation Company Name

		;		As of December 31, 2019	r 51, 2019
	Title	Name or Representative	ative	Shareholding	50
	11110	Name	Legal representative	Shares	%
	Director	Chen-Chen-Lun Hsing		NA (Note 1)	0.00%
ProLight Opto Technology Corporation	Director	Chen-Chen-Lun Hsing		NA (Note 1)	0.00%
Shanghai Welight Electronic Co., Ltd.	Chairman	ProLight Opto Technology Corporation	Tung Kuan	NA (Note 1)	100.00%
	Supervisor	ProLight Opto Technology Corporation	Ming-Hsien Shih		
	Chairman	Epistar Corporation	Biing-Jye Lee	1,063,000	64.31%
	Director	Epistar Corporation	Min-Hsun Hsieh		
	Director	Wu Nan-Yang		0	0.00%
	Director	DHAYAGUDE Tushar Heramb		preference share 159,000	100.00%
	Director	Tzu-Hsiang Tai		0	0.00%
	President	DHAYAGUDE Tushar Heramb		preference share 159,000	100.00%

Note 1: Given the type of limited company, the quantity of shares is not applicable.

Note 2: Appointed by shareholders jointly pursuant to PRCCompany Act, and recorded by State Administration for Industry & Commerce for the People's Republic of

Note 3: allureLux Corporation renamed to GaNrich Semiconductor Corporation in February 2020.

8.1.6 Affiliates' Operating Results

					As of Do	As of December 31, 20	2019 Unit: NT	in thousands
Company	Capital Stock	Assets	Liabilities	Net Worth	Net Revenues	Income (Loss) from Operation	Net Income (Loss)	Basic Earning (Loss) Per Share
Lighting Investment Corp.	2,514,785	2,286,323	98,377	2,187,946	121,192	67,162	135,696	0.54
Epistar JV Holding (BVI) Co., Ltd.	14,960,129	9,123,035	0	9,123,035	0	(3,095)	(666,350)	Note 1
Yenrich Technology Corporation	000,009	1,412,430	289,415	1,123,015	587,799	(94,816)	(28,223)	(4.70)
GaN Ventures Co., Limited	323,889	22,281	868	21,888	0	(18,203)	(90,478)	Note 1
SH Optotech Co., Ltd.	64,881	18,011	11,497	6,514	78,353	698	1,076	0.17
Ecoled Venture Co., Limited	0	0	0	0	7,164	(7,089)	19,736	Note 1
Full Star Enterprises Limited	262,991	257,947	40	257,907	0	(2,076)	7,599	Note 1
Episky (Hong Kong) Ltd.	2,124,096	2,083,512	0	2,083,512	0	0	(284,375)	Note 1
Lighting Investment Ltd.(BVI)	152,701	886,609	17,220	592,768	0	(5,388)	52,468	Note 1
United LED Corporation Hong Kong Limited	2,689,036	467,293	(435)	467,728	0	52	(165,085)	Note 1
LiteStar JV Holding (BVI) Co., Ltd.	4,169,444	4,054,254	32	4,054,222	0	(22)	(119,528)	Note 1
HUGA Holding (Samoa) Limited	313,322	79,880	0	088'6L	0	(104)	51,872	Note 1
Crystaluxx SARL	111,519	14,059	1,324	12,735	0	(1,367)	(1,844)	Note 1
Yen-Rich Opto (Hong Kong) Limited	240,140	299,528	3,748	295,780	19,721	(9)	7,113	Note 1
Crystal Light Enterprises Group Limited	6,754	26,093	0	26,093	0	0	(311)	Note 1
Can Yang Investments Limited	2,324,763	1,828,020	61,094	1,766,926	0	(82)	(275,527)	Note 1
Episky Corporation (Xiamen) Ltd.	1,920,234	4,919,883	2,836,378	2,083,505	3,514,320	(184,333)	(284,408)	Note 1
Luxlite (HK) Corporation Limited	113,924	435,988	7,776	428,212	0	(55)	120,918	Note 1
Epistar (Hong Kong) Limited	2,556	2,248	167	2,081	0	(32)	(32)	Note 1
United LED Shan Dong Corporation	2,519,400	570,055	114,202	455,853	6	(164,326)	(165,485)	Note 1

Company	Capital Stock	Assets	Liabilities	Net Worth	Net Revenues	Income (Loss) from Operation	Net Income (Loss)	Basic Earning (Loss) Per Share
Epicrystal (Hong Kong) Co., Ltd.	4,403,034	4,053,019	0	4,053,019	0	0	(119,460)	Note 1
Ningbo Formosa Epitaxy Incorporation	966'5	26,093	0	26,093	0	0	(311)	Note 1
Jiangsu Canyang Optoelectronics Ltd.	5,756,160	3,282,743	1,462,038	1,820,705	1,317,553	(256,486)	(275,384)	Note 1
Luxlite (Shenzhen) Corporation Limited	87,767	2,050,541	1,733,040	317,501	3,623,048	190,996	125,395	Note 1
Epicrystal Corporation (ChangZhou) Ltd.	4,366,122	5,584,760	1,244,411	4,340,349	2,648,542	(130,536)	(127,901)	Note 1
iReach Corporation	35,000	107,030	48,056	58,974	140,037	11,469	11,469	1.64
GV Semiconductor Inc.	200,266	36,554	3,886	32,668	8,032	(88,531)	(87,413)	Note 1
allureLux Corporation (Note 5)	30,000	7,739	100	7,639	0	(1,283)	(4,423)	(1.47)
Unikorn Semiconductor Corporation	582,000	1,179,541	522,365	657,176	125,380	(442,657)	(436,932)	(3.75)
ProLight Opto Technology Corporation	680,620	1,111,279	303,467	807,812	597,893	(50,624)	(55,888)	(0.86)
ProLight Opto Holding Corporation	4,497	(1,446)	65	(1,505)	0	0	2,364	Note 1
ProLight Opto Technology Corporation	4,497	(1,448)	30	(1,478)	0	0	2,364	Note 1
Shanghai Welight Electronic CO., LTD	4,497	166,297	167,435	(1,138)	238,446	2,631	2,689	Note 1
Gan Force Corporation	1,812	87,529	11	87,518	0	(53)	(11,533)	(86.98)
EPISKY Corporation (Changzhou) Ltd	0	0	0	0	6	(7,438)	(9,237)	Note 1, Note 2
AllureLux Inc.	0	0	0	0	0	(2,977)	(2,977)	Note 1, Note 3
EPIRICH (Guangzhou) Co., Ltd.	0	0	0	0	0	0	(69)	Note 1, Note 4

Note 1: Not applicable, as it is an offshore company.

Note2: EPISKY Corporation (Changzhou) Ltd was liquidated on December, 2019. Note3: AllureLux Inc. was liquidated on February, 2019.

Note4: EPIRICH (Guangzhou) Co., Ltd. was liquidated on April, 2019.

Note5: allureLux Corporation renamed to GaNrich Semiconductor Corporation in February 2020.

- 8.1.7 Affiliates Consolidated Financial Statements: See Appendix 1.3 (Page 173)
- 8.1.8 Relationship Report: N.A.
- 8.1.9 Information about endorsement/guarantee to affiliates, loaning to others and trading of financial derivatives
  - 1. Endorsement/guarantee for others: N/A
  - 2. Loaning to others

The limit of total loan made by the subsidiary wholly owned by the Company directly, Episky Corporation (Xiamen) Ltd., and the limit of loan made by it any single counterpart shall be no more than 50% and 40% of the net worth in the latest financial statements of Episky Corporation (Xiamen) Ltd,.

The limit of total loan made by the subsidiary wholly owned by the Company directly, Epicrystal Corporation (ChangZhou) Ltd., and the limit of loan made by it any single counterpart shall be no more than 30% and 20% of the net worth in the latest financial statements of Epicrystal Corporation (ChangZhou) Ltd,.

The limit of total loan made by the subsidiary wholly owned by the Company directly, Yen-Rich Opto (Hong Kong) Limited, and the limit of loan made by it any single counterpart shall be no more than 40% and 40% of the net worth in the latest financial statements of Yen-Rich Corporation (Hong Kong) Limited.

December 31, 2019 Unit: NT\$ thousand

Lender	Borrower	Balance of loan A	Actual drawdown	A to 2019 Q4 Net value ratio (%)
EPISKY Corporation (Xiamen) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	0	0	0.00
Epicrystal Corporation (ChangZhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	344,400	172,200	7.86
Yen-Rich Opto (Hong Kong) Limited	Ecoled Venture Co., Limited	0	0	0.00
Yen-Rich Opto (Hong Kong) Limited	Lighting Investment Corp.	95,936	95,936	32.43
Total subsidiaries		440,336	268,136	0.97

Note: The net worth in the financial statements of the Company, Episky Xiamen and Epicrystal (ChangZhou), Yen-Rich (HongKong) 2019 was NT\$45,219,189 thousand, RMB498,639 thousand, RMB1,017,303 thousand and USD9,866 thousand respectively.

3. Trading of derivatives: N/A

# 8.2 Private Placement Securities in the Most Recent Years and up to the date of publication of the annual report

Title					ivate placement at the
	shareholders	meeting on Ju	ine 20, 2019 (1	Note).	
Type of securities in private placement		res of Epistar			
Date on which the private placement was approved at a shareholders meeting and the amount thus approved	shares for ca no more than made at the g	sh to sponsor in 120 million general shareho	issuance of the shares. The m olders' meeting	e global deposition was app on June 20, 2	
Basis for and reasonableness of the pricing					o less than 80% of the he price determination
	The simp three or determin dividends     The simp consecution date, aft	five consecu- ation date, as, cash dividen- ple average cover business of er adjustment	tive business after adjustme ds, or capital r losing price of days immediat for any dis	days immediant for any eduction.  of the commonety before the	tock of either the one, ately before the price distribution of stock on stock of the thirty he price determination stock dividends, cash
		s, or capital re			
Manner in which the	The specific investor shall be mainly defined in compliance with Article 43-6 of the Securities and Exchange Act and related letter by the Financial Supervisory Commission, R.O.C., which do not cause significant changes in the future under the premise of the right to operate the Company and shall be a strategic investor who is able to promote the Company's business.				
specified persons were selected	of the Securities and Exchange Act and related letter by the Financial Supervisory Commission, R.O.C., which do not cause significant changes in the future under the premise of the right to operate the Company and shall be a strategic investor who is able to promote the Company's business.				
selected	Supervisory Commission, R.O.C., which do not cause significant changes in the future under the premise of the right to operate the Company and shall be a strategic investor who is able to promote the Company's business.				
	the future under the premise of the right to operate the Company and shall be a strategic investor who is able to promote the Company's business.  te Based on the status of the capital market, timeliness, and feasibility of				
Reasons why the private	strategic investor who is able to promote the Company's business.  Based on the status of the capital market, timeliness, and feasibility of				
placement was necessary	Based on the status of the capital market, timeliness, and feasibility of fundraising, issuance cost, and/or the development of the Company, the				
pracement was necessary	Based on the status of the capital market, timeliness, and feasibility of				
					operation between the
					he stability of running
					by private placement.
Date of completion of		<u> </u>	, ,		7 1 1
payment	NA				
Information about offerees	Targets of	O1:6:4:	Carla a suimti a	Relationshi	Participation in the
	the private	Qualificati	Subscriptio	p with the	operations of the
	placement	ons	n amounts	Company	Company
	No offerees h	nave been arra	nged so far.		
Actual subscription price	NA				
Difference between actual					
subscription price and	NA				
reference price					
Effect of the private					es in private placement
placement to shareholders'					f the global depository
equity					y of issued shares will
			urrent (Februa	ry 26, 2020) p	aid-in capital upon the
	capital increa	ise.			
Status of use of the capital					
raised through the private	NT A				
placement of common	NA				
shares and implementation					
progress of the plan  Realization of the benefits of					
	NA				
the plan					

Note: As of the date of printed of the annual report, the motion was discontinued upon resolution made by the board of directors meeting on 26 February 2020, for lack of qualified strategic investor.

8.3 The Shares in the Company Held or Disposed of by Subsidiaries in the Most Recent Years and up to the date of publication of the annual

										Unit: NT\$	Unit: NT\$; Shares; %
Company	Capital Stock (NT\$ K)	Capital sources	The Company's shareholdings	Date of acquisition or disposition	Quantity and amount of shares as acquired	Quantity and amount of shares as disposed of	Invest ment income	Quantity and amount of shares held until the date of publication of the annual annual annual  Amount of endorsemen t'guarantee t'guarantee t'guarantee t'guarantee t'guarantee t'guarantee t'guarantee for its subsidiary	Status of pledge	Amount of endorsemen t/guarantee made by the Company for its subsidiary	Amount of loan made by the Company to its subsidiary
Lighting Investment Corp. (Note 1)	NT\$ 2,514,785 thousand	NA	100.00%	December 28, 2012 (acquired)	2,564,755 shares/ NT\$ 135,163 thousand	0 share/ NT\$0 thousand	İ	2,564,755 shares/ NT\$ 82,970 thousand	None	0	0
From 2019 until the date of publication of the annual report	publication of the	annual rep	ort		2,564,755 shares/ NT\$ 135,163 thousand	0 share NT\$0 thousand	I	2,564,755 shares/ NT\$ 82,970 thousand		0	0
135,163 NT\$0 82,970 thousand t		Topico de	See (molecular)	Control Control	135,163 thousand	NT\$0 thousand		82,970 thousand		7	)

Note: Subject to the resolution made by the special shareholders' meeting on September 28, 2012, the Company swapped shares with HUGA Optotech Inc. according to Article 29 of the Business Mergers and Acquisitions Act. The record date for the share swap was set as December 28, 2012. Accordingly, HUGA Optotech Inc. held the Company's shares. After that, according to the official letter under Tai-Tsai-Cheng-3-Tze No. 0920124301 dated June 18, 2003, Article 28-2 of the Securities and Exchange Act and Article 13 of the Business Mergers and Acquisitions Act, the Company registered cancellation of shares or transferred the shares. Then, the Company merged HUGA Optotech Inc. on September 29, 2016.

# 8.4 Other supplementary notes: None.

8.5 Any Events in 2019 the most recent year and up to the Date of publication of thise Annual Report that Had Significant Impacts on Shareholders' Right or Security Prices as Stated in Item 3, Paragraph 2 of Article 36 of Securities and Exchange Act of Taiwan: None.

#### Appendix 1.1

### Epistar Corporation Statement of Declaration on Internal Control System

February 26, 2020

Epistar Corporation has conducted a self-check on internal control in 2019. The results are as follows:

- 1. Epistar acknowledges that the Board of Directors and management personnel are responsible for establishing, performing, and maintaining an Internal Control System. Said system has already been duly established at Epistar. The purposes of the Internal Control System are to provide a reasonable assurance for the Company's efficient and effective operations (including profit, performance, safeguard of assets, etc.), reliability of financial reports, and compliance with applicable laws and regulations.
- 2. Epistar also acknowledges that the Internal Control System possesses inherent constraints irrespective of the intended impeccability of the system design and therefore could only provide a reasonable assurance of the three goals referred to above. Due to the changes in environment and circumstances, the effectiveness of the internal control system may vary accordingly. Nevertheless, the Internal Control System is equipped with self-monitoring mechanisms. Should any flaws be recognized, the Company would enforce corrective measures immediately.
- 3. The Company evaluates the effectiveness of the design and implementation of its Internal Control System in accordance with the "Guidelines for the Establishment of Internal Control System by Public Companies" (referred to as the "Guidelines" hereinafter). The evaluation on the internal control system adopted by the said Guidelines has the internal control system divided into the following five factors based on the process of the management control: (1) Environment control, (2) risk assessment, (3) control process, (4) information and communication, and (5) supervision. Each component comprises certain factors. Please refer to the Guidelines for the preceding items.
- 4. Epistar has assessed and evaluated the effectiveness of the internal control system design and implementation in accordance with the internal control system criteria referred to above
- 5. Based on the evaluation of said system, Epistar considered the Internal Control System as of December 31, 2019 (including supervision and management of subsidiaries), which, including the Design and performance of the known operation effectiveness and the degree of reaching the efficiency goals, reliability of financial reporting and compliance with the related internal control system under the relevant laws, are all effective. It can ensure that said goals will be reasonably reached.
- 6. This Statement of Declaration on Internal Control System is the main content of the annual report and prospectus, and will be publicly disclosed. Upon any unlawful acts like pretense and concealment involved in the above-mentioned statement, Epistar will assume the legal responsibilities according to Articles 20, 32, 171, and 174 of the Securities and Exchange Act.
- 7. This Statement of Declaration on Internal Control System had been approved by Epistar's Board of Directors at the meeting of February 26, 2020 with nine directors presented at the meeting and none disagreeing with this Statement of Declaration on Internal Control System.

**Epistar Corporation** 

Chairman Biing-Jye Lee President Chin-Yung Fan Appendix 1.2

**Audit Committee's Review Report** 

To: Epistar Corporation Annual General Shareholders' Meeting of 2020

The Board of Directors has prepared and submitted the Company's 2019 Business

Report, Financial Statements, and Proposal for Allocation of Loss. Ya-Huei Cheng,

CPA and Chih-Cheng Hsieh, CPA of PricewaterhouseCoopers have also audited the

financial statements and issued the auditors' report. The Business Report, Financial

Statements, and Proposal for 2019 Allocation of Loss have been reviewed and

determined to be correct and accurate by the Audit Committee members of Epistar

Corporation. According to article 14-4 of the Securities and Exchange Act and Article

219 of the Company Act, we hereby submit the report.

**Epistar Corporation** 

Chairman of the Audit Committee: Mr. Wei-Min Sheng

Date: February 26<sup>th</sup>, 2020

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#### Appendix 1.3

# Epistar Corporation Affiliates Consolidated Financial Statements Statement

The companies required to be included in the consolidated financial statements of affiliates in accordance with the "Criteria Governing Preparation of Affiliation Reports, Consolidated Business Reports and Consolidated Financial Statements of Affiliated Enterprises" for the year ended December 31, 2019 are all the same as the companies required to be included in the consolidated financial statements of parent and subsidiary companies as provided in International Accounting Standard 10 "Consolidated and Separate Financial Statements." Relevant information that should be disclosed in the consolidated financial statements of affiliates has all been disclosed in the consolidated financial statements of parent and subsidiary companies. Hence, we have not prepared a separate set of consolidated financial statements of affiliates.

**Epistar Corporation** 

Chairman Biing-Jye Lee

February 26<sup>th</sup>, 2020

#### REPORT OF INDEPENDENT ACCOUNTANTS

PWCR19000309

To the Board of Directors and Shareholders of Epistar Corporation

#### **Opinion**

We have audited the accompanying consolidated balance sheets of Epistar Corporation and its subsidiaries (the "Epistar Group") as at December 31, 2019 and 2018, and the related consolidated statements of comprehensive income, of changes in equity and of cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, based on our audits and the reports of other independent accountants, as described in the *Other matters* section of our report, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of Epistar Group as at December 31, 2019 and 2018, and its consolidated financial performance and its consolidated cash flows for the years then ended in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers" and the International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the Financial Supervisory Commission.

#### Basis for opinion

We conducted our audit of the consolidated financial statements as of and for the year ended December 31, 2019 in accordance with the "Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants", "Rule No. Financial-Supervisory-Securities-Auditing-1090360805 issued by the Financial Supervisory Commission on February 25, 2020" and generally accepted auditing standards in the Republic of China (ROC GAAS); and in accordance with the "Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants" and ROC GAAS for our audit of the consolidated financial statements as of and for the year ended December 31, 2018.

#### Key audit matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole and, in forming our opinion thereon, we do not provide a separate opinion on these matters.

The key audit matters in relation to the consolidated financial statements for the year ended December 31, 2019 are outlined as follows:

# Evaluation of Impairment Losses of Property, Plant and Equipment, and Goodwill <a href="Description">Description</a>

Please refer to Note 4(20) of the consolidated financial statement for the accounting policy on impairment losses on non-financial assets, Note 5(2) for the accounting estimates and assumptions in relation to impairment losses on non-financial assets, Note 6(11) for the explanations regarding impairment losses on non-financial assets. As of December 31, 2019, the balances of property, plant and equipment, and goodwill were NT\$20,577,106 thousand and NT\$6,324,659 thousand, respectively.

Epistar Group evaluates the recoverable amounts of idle property, plant and equipment through assessing the fair values after deducting the disposal costs, and of property, plant and equipment, and intangible assets through value in use. Epistar Group evaluates whether impairment losses will be provided for property, plant and equipment, and goodwill utilizing the aforementioned recoverable amounts. The evaluation of value in use for operational property, plant and equipment and intangible assets consists of the estimation of future cash flows and the determination of discount rates. Since the assumptions adopted in the estimation of future cash flows and the results of the estimation would have significant impact on value in use of operational property, plant, and equipment, and intangible assets, it was identified as one of the key audit matters.

#### How our audit addressed the matter

We have obtained the appraisal report of idle property, plant and equipment prepared by independent values from Epistar Group and assessed the reasonableness of evaluation methods and fair values utilized. For value in use of operational property, plant and equipment, and goodwill, the following procedures were conducted:

- 1. Interviewed with management and obtained an understanding of Epistar Group's operational procedures in estimating future cash flows and verified the consistency to operation plans approved by the Board of Directors.
- 2. Discussed operation plans with management to understand the product strategies and their respective execution status.
- 3. Assessed the reasonableness for assumptions utilized in estimating future cash flows, including projected sales volumes, unit prices and unit costs. Assessed the parameters adopted in determining discount rates, including calculating and comparing the weighted average cost of capital at risk-free rates, the industrial risk premium and the long-term rates of returns.

#### **Evaluation of Inventories**

#### **Description**

Please refer to Note 4(13) of the consolidated financial statement for the accounting policy on inventory valuation, Note 5(2) for the accounting estimates and assumptions in relation to inventory valuation, Note 6(5) for the explanations regarding inventory valuation. As of December 31, 2019, the balances of inventories and the allowance for valuation loss were NT\$4,048,813 thousand and NT\$796,510 thousand, respectively.

Epistar Group is primarily engaged in manufacturing and sales of LED wafers and chips. Due to rapid technological developments, short product lifespans and frequent fluctuations of market prices, the risk of decline in market value and obsolescence for inventories is high. Epistar Group evaluates net realized values for inventories which aged over a specific period of time and specific obsolete inventories in order to provide allowance for valuation loss. Since the identification of the above obsolete inventories and their respective net realizable values are subject to management's judgment, it was identified as one of the key audit matters.

#### How our audit addressed the matter

Our key audit procedures performed in respect of the above included the following:

- 1. Obtained an understanding of Epistar Group's operations and the nature of its industry and interviewed with management to understand the probability of future sales for those out-of-date inventories and to evaluate the reasonableness of allowance for valuation loss.
- 2. Obtained and validated the accuracy of the detailed listings of inventories aged over a specific period

of time and specific obsolete inventories. Validated information of historical sales and discounts for those obsolete inventories to assess the reasonableness of policies in providing allowance for inventory valuation loss.

#### Other matter - Audited by Other Independent Accountants

We did not audit the financial statements of certain consolidated subsidiaries. Those financial statements were audited by other independent accountants, whose reports thereon have been furnished to us, and our opinion expressed herein, insofar as it relates to the amounts included in the financial statements and the information on the consolidated subsidiaries disclosed in Note 13 was based solely on the reports of other independent accountants. Total assets of those consolidated subsidiaries amounted to NT\$592,832 thousand and NT\$812,177 thousand, constituting 1.01% and 1.29% of the consolidated total assets as at December 31, 2019 and 2018, respectively, and total operating revenues were both NT\$0 thousand for the years then ended. Furthermore, we did not audit the 2019 and 2018 financial statements of certain equity investments accounted for under the equity method. Those financial statements were audited by other independent accountants whose reports thereon were furnished to us and our opinion expressed herein, insofar as it relates to the amounts included in the consolidated financial statements and certain information disclosed in Note 13 relative to these investments, is based solely on the reports of the other independent accountants. These equity investments amounted to NT\$524,371 thousand and NT\$849,968 thousand, representing 0.89% and 1.35% of the consolidated total assets as of December 31, 2019 and 2018, respectively, and their comprehensive income (including share of loss of associates and joint ventures accounted for under equity method and share of other comprehensive income/(loss) of associates and joint ventures accounted for under equity method) amounted to NT\$70,698 thousand and NT\$78,078 thousand, representing (1.79%) and (7.08%) of the consolidated comprehensive loss for the years then ended.

#### Other matter – Parent company only financial reports

We have also expressed an unmodified opinion on the parent company only financial statements of Epistar Corporation as of and for the years ended December 31, 2019 and 2018.

# Responsibilities of management and those charged with governance for the consolidated financial statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers" and the International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the Financial Supervisory Commission, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Epistar Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Epistar Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including audit committee, are responsible for overseeing the Epistar Group's financial reporting process.

# Independent accountant's responsibilities for the audit of the consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue a report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ROC GAAS will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with ROC GAAS, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- 1. Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- 2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of Epistar Group's internal control.
- 3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on Epistar Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our report. However, future events or conditions may cause Epistar Group to cease to continue as a going concern.
- 5. Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- 6. Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within Epistar Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Cheng, Ya-Huei

Hsieh, Chih-Cheng

For and on behalf of PricewaterhouseCoopers, Taiwan

February 26, 2020

The accompanying consolidated financial statements are not intended to present the financial position and results of operations and cash flows in accordance with accounting principles generally accepted in countries and jurisdictions other than the Republic of China. The standards, procedures and practices in the Republic of China governing the audit of such financial statements may differ from those generally accepted in countries and jurisdictions other than the Republic of China. Accordingly, the accompanying consolidated financial statements and report of independent accountants are not intended for use by those who are not informed about the accounting principles or auditing standards generally accepted in the Republic of China, and their applications in practice.

# EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

		December 31, 201			December 31, 2018		
Assets	Notes		AMOUNT	%		AMOUNT	%
Current assets							
Cash and cash equivalents	6(1)	\$	5,252,823	9	\$	5,532,509	9
Financial assets at fair value through profit or	6(2)						
loss - current			1,185,215	2		726,406	1
Notes receivable, net	6(4)		2,313,351	4		1,495,653	2
Accounts receivable, net	6(4)		6,705,598	11		7,583,934	12
Accounts receivable - related parties, net	7		172,185	-		1,281,006	2
Other receivables			145,596	-		249,964	-
Other receivables - related parties	7		204	-		305	-
Inventories	6(5)		3,252,303	6		4,705,191	7
Prepayments			943,913	2		1,126,558	2
Non-current assets held for sale - net	6(12)		1,086	-		390,042	1
Other current assets	8		284,774			431,118	1
Current Assets			20,257,048	34		23,522,686	37
Non-current assets							
Non-current financial assets at fair value	6(2)						
through profit or loss			157,762	_		-	-
Non-current financial assets at fair value	6(3)						
through other comprehensive income			3,640,610	6		3,265,125	5
Investments accounted for under equity	6(6)						
method			745,901	1		1,117,708	2
Property, plant and equipment	6(7)		20,577,106	35		22,435,949	36
Right-of-use assets	6(8)		1,564,443	3		-	-
Intangible assets	6(9)		7,501,798	13		7,683,928	12
Deferred income tax assets	6(31)		3,944,874	7		3,911,132	6
Other non-current assets	6(10)		341,068	1		802,114	2
Non-current assets			38,473,562	66		39,215,956	63
Total assets		\$	58,730,610	100	\$	62,738,642	100

(Continued)

# EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

			December 31, 2019	December 31, 2018		
Liabilities and Equity	Notes		AMOUNT	%	AMOUNT	%
Current liabilities						
Short-term borrowings	6(13) and 8	\$	1,683,783	3 \$	1,874,876	3
Short-term notes and bills payable	6(14) and 8		346,318	1	357,717	1
Notes payable			394,586	1	129,942	-
Accounts payable			1,534,323	3	2,301,209	4
Accounts payable - related parties	7		151,677	-	285,825	1
Other payables	6(15) and 7		2,503,852	4	3,820,103	6
Current income tax liabilities			6,774	-	-	-
Current lease liabilities			97,263	-	-	-
Long-term liabilities, current portion	6(16) and 8		117,533	-	165,306	-
Other current liabilities - others			159,451	<u> </u>	178,857	
<b>Current Liabilities</b>			6,995,560	12	9,113,835	15
Non-current liabilities						
Long-term borrowings	6(16) and 8		1,011,025	2	409,808	1
Deferred income tax liabilities	6(31)		1,606,655	3	1,402,901	2
Non-current lease liabilities			1,274,186	2	-	-
Other non-current liabilities	6(19)		647,826	1	904,188	1
Non-current liabilities			4,539,692	8	2,716,897	4
Total Liabilities			11,535,252	20	11,830,732	19
Equity attributable to owners of parent					_	
company						
Share capital	6(20)					
Share capital - common stock			10,887,014	19	10,887,014	18
Capital surplus	6(21)					
Capital surplus			39,212,772	66	39,515,679	62
Retained earnings	6(22)					
Legal reserve			161,423	-	161,423	-
Special reserve			318,465	1	703,607	1
Accumulated deficit		(	3,749,510) (	6) (	385,142)	-
Other equity interest	6(23)					
Other equity interest		(	1,285,485) (	2) (	1,317,990) (	2)
Treasury stocks	6(20)	(	325,490) (	1)(	211,008)	
Equity attributable to owners of the						
parent			45,219,189	77	49,353,583	79
Non-controlling interest			1,976,169	3	1,554,327	2
Total equity			47,195,358	80	50,907,910	81
Total liabilities and equity		\$	58,730,610	100 \$	62,738,642	100

The accompanying notes are an integral part of these consolidated financial statements.

# EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars, except loss per share amounts) Year ended December 31

			2019	r ended Decei	2018	
Items	Notes		AMOUNT	%	AMOUNT	%
Sales revenue	6(24) and 7	\$	15,959,831	100 \$	20,306,412	100
Operating costs	6(5) and 7	(	16,393,199) (	103) (	17,651,741) (	87)
Operating margin		(	433,368) (	3)	2,654,671	13
Unrealized loss(profit) from sales			4,266	-	2,795	-
Realized (loss) profit from sales		(	2,795)	<u> </u>	21,083	
Net operating margin		(	431,897) (	3)	2,678,549	13
Operating expenses	6(29)					
Selling expenses		(	299,060) (	2) (	280,781) (	1)
General and administrative expenses		(	1,244,059) (	8) (	1,328,003) (	6)
Research and development expenses		(	1,999,017) (	12) (	1,959,743) (	10)
Reversal of (expected credit losses)			24,951	- (	9,814)	
Total operating expenses		(	3,517,185) (	22) (	3,578,341) (	17)
Other income and expenses - net	6(25)		257,529	2	220,949	1
Operating loss		(	3,691,553) (	23) (	678,843) (	3)
Non-operating income and expenses						
Other income	6(26)		280,776	1	290,378	2
Insurance income from disaster			-	-	206,785	1
Other gains and losses	6(27) and 7	(	154,617) (	1)(	538,050) (	3)
Finance costs	6(28)	(	160,271) (	1)(	175,678) (	1)
Reversal of (expected credit losses)		(	7,054)	-	4,121	-
Share of loss of associates and joint ventures	6(6)					
accounted for under equity method		(	21,383)	<u> </u>	24,146	
Total non-operating income and expenses		(	62,549) (	1)(	188,298) (	1)
Loss before income tax		(	3,754,102) (	24) (	867,141) (	4)
Income tax (expense) benefit	6(31)	(	183,418) (	1)	361,277	2
Loss for the year		(\$	3,937,520) (	25) (\$	505,864) (	2)

(Continued)

# EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars, except loss per share amounts) Years ended December 31

Items					s ended Decer		
Other comprehensive income Gains on remeasurements of defined benefit 6(16) plans Unrealized gains (losses) from investments in 6(3) cequity instruments measured at fair value through other comprehensive income Share of other comprehensive income Golf of the comprehensive income of 6(6) sassociates and joint ventures accounted for using equity method, components of other comprehensive income that will not be reclassified to profit or loss Income tax related to comprehensive income that will not be reclassified to profit or loss Components of other comprehensive income that will not be reclassified to profit or loss Components of other comprehensive income that will not be reclassified to profit or loss Components of other comprehensive income that will not be reclassified to profit or loss Components of other comprehensive income that will not be reclassified to profit or loss Components of other comprehensive income that will be reclassified to profit or loss Cumulative translation differences of foreign operations Share of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of solution comprehensive income of solution comprehensive income of	_			2019		2018	
Gains on remeasurements of defined benefit plans (616)  plans (168es) from investments in 613 cquity instruments measured at fair value through other comprehensive income of 616 associates and joint ventures accounted for using equity method, components of other comprehensive income that will not be reclassified to profit or loss  Income tax related to components of other comprehensive income that will not be reclassified to profit or loss  Components of other comprehensive income that will not be reclassified to profit or loss  Components of other comprehensive income that will not be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income of associates and joint ventures accounted for using equity decides of the parent company  (\$ 3,3957,517   25   5 1,103,095	,	Notes		AMOUNT	<u>%</u>	AMOUNT	<u>%</u>
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Income tax related to components of other comprehensive income that will not be reclassified to profit or loss	*			52 960		57 201	
Components of other comprehensive income that will not be reclassified to profit or loss	_	6(31)		33,809	-	31,204	-
reclassified to profit or loss  Components of other comprehensive income that will not be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Cumulative translation differences of foreign operations  (a) 408,151 (a)		0(31)					
Components of other comprehensive income that will be reclassified to profit or loss   322,314   2 (			(	71 831)		111 108	1
income that will not be reclassified to profit or loss  Cumulative translation differences of foreign operations  Charles of other comprehensive income of 6(6) associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Income tax related to components of other 6(31) comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Comprehensive loss for the year  (\$ 342,311) (2) ( 123,462) ( 1) (2) (123,462) ( 1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2			(	71,031)	<del></del> _	111,190	1
Profit or loss   322,314   2 (							
Components of other comprehensive income that will be reclassified to profit or loss  Cumulative translation differences of foreign operations  Share of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Income tax related to components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Comprehensive loss for the year  (\$ 19,997) - (\$ 597,231) (3)  Total comprehensive loss for the year  (\$ 3,753,797) (25) (\$ 1,103,095) (5)  Loss attributable to:  Equity holders of the parent company  (\$ 3,753,797) (24) (\$ 456,146) (2)  Non-controlling interest  (\$ 3,720,337) (24) (\$ 1,022,814) (5)				322 314	2 (	473 760) (	2)
Cumulative translation differences of foreign operations  Cumulative translation differences of foreign operations  Share of other comprehensive income of 6(6) associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss  Income tax related to components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive loss for the year  (\$ 342,311) (\$ 2) (\$ 123,462) (\$ 1) (\$ 1) (\$ 3) (\$	•		-	322,314		475,705)(	<u> </u>
Cumulative translation differences of foreign operations ( 408,151)( 3)( 238,892)( 1)  Share of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss ( 6,374) - 65,149 - 10,000 and that will be reclassified to profit or loss ( 72,214 1 50,281 - 10,000 and that will be reclassified to profit or loss ( 342,311)( 2)( 123,462)( 1)  Other comprehensive loss for the year (\$ 19,997) - (\$ 597,231)( 3)  Other comprehensive loss for the year (\$ 3,957,517)( 25)(\$ 1,103,095)( 5)  Loss attributable to:  Equity holders of the parent company (\$ 3,753,797)( 24)(\$ 456,146)( 2)  Non-controlling interest (\$ 183,723)( 1)(\$ 49,718) - 10,000 and the parent company (\$ 3,720,337)( 24)(\$ 1,022,814)( 5)  Non-controlling interest (\$ 237,180)( 1)(\$ 80,281) - 10,000 and the parent company (\$ 3,720,337)( 24)(\$ 1,022,814)( 5)  Non-controlling interest (\$ 237,180)( 1)(\$ 80,281) - 10,000 and the parent company (\$ 3,720,337)( 24)(\$ 1,022,814)( 5)  Basic loss per share  Total basic loss per share  Total basic loss per share  Total basic loss per share							
operations ( 408,151) ( 3) ( 238,892) ( 1)  Share of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss ( 6,374) - 65,149 - 10,000 - 10	=						
Share of other comprehensive income of associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss	_		(	408.151) (	3) (	238, 892) (	1)
associates and joint ventures accounted for using equity method, components of other comprehensive income that will be reclassified to profit or loss ( 6,374) - 65,149 - 10,000 comprehensive income that will be reclassified to profit or loss ( 72,214 1 50,281 - 0,000 comprehensive income that will be reclassified to profit or loss ( 342,311) ( 2) ( 123,462) ( 1) ( 1) ( 1) ( 1) ( 1) ( 1) ( 1) (	1	6(6)		,, (	-, (	200,0727(	- /
using equity method, components of other comprehensive income that will be reclassified to profit or loss (6,374) - 65,149 - 10 comprehensive income that will be reclassified to profit or loss 72,214 1 50,281 - Components of other comprehensive income that will be reclassified to profit or loss 72,214 1 50,281 - Components of other comprehensive income that will be reclassified to profit or loss (342,311) (2) (123,462) (1) Other comprehensive loss for the year (\$19,997) - (\$597,231) (3) Total comprehensive loss for the year (\$3,957,517) (25) (\$1,103,095) (5) Loss attributable to:  Equity holders of the parent company (\$3,753,797) (24) (\$456,146) (2) Non-controlling interest (\$183,723) (1) (\$49,718) - Comprehensive loss attributable to:  Equity holders of the parent company (\$3,720,337) (24) (\$1,022,814) (5) Non-controlling interest (\$237,180) (1) (\$80,281) - Comprehensive loss attributable to:  Equity holders of the parent company (\$3,720,337) (24) (\$1,022,814) (5) Non-controlling interest (\$237,180) (1) (\$80,281) - Comprehensive loss per share (\$3,48) (\$0,42) (\$1,022,814) (5) Non-controlling interest (\$3,48) (\$0,42) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$1,022,814) (\$3,48) (\$							
Comprehensive income that will be reclassified to profit or loss   ( 6,374)							
reclassified to profit or loss Income tax related to components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  Components of other comprehensive income that will be reclassified to profit or loss  (\$342,311)(\$2)(\$123,462)(\$1) Other comprehensive loss for the year  (\$19,997) - (\$597,231)(\$3)  Total comprehensive loss for the year  (\$3,957,517)(\$25)(\$1,103,095)(\$5)  Loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$3,753,797)(\$24)(\$456,146)(\$2)  Non-controlling interest  (\$3,720,337)(\$24)(\$49,718) -  Comprehensive loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$3,720,337)(\$24)(\$1,022,814)(\$5)  Non-controlling interest  (\$3,720,337)(\$24)(\$1,022,814)(\$5)  Non-controlling interest  (\$3,720,337)(\$24)(\$1,022,814)(\$5)  Non-controlling interest  (\$3,720,337)(\$24)(\$3,720,814)(\$5)							
Income tax related to components of other comprehensive income that will be reclassified to profit or loss   72,214   1   50,281   -	=		(	6,374)	-	65,149	_
reclassified to profit or loss	Income tax related to components of other	6(31)					
Components of other comprehensive income that will be reclassified to profit or loss (\$342,311)(\$2)(\$123,462)(\$1)(\$3)  Other comprehensive loss for the year (\$19,997) - (\$597,231)(\$3)  Total comprehensive loss for the year (\$3,957,517)(\$25)(\$1,103,095)(\$5)  Loss attributable to:  Equity holders of the parent company (\$3,753,797)(\$24)(\$456,146)(\$2)  Non-controlling interest (\$183,723)(\$1)(\$49,718) - (\$20)  Comprehensive loss attributable to:  Equity holders of the parent company (\$3,720,337)(\$24)(\$1,022,814)(\$5)  Non-controlling interest (\$237,180)(\$1)(\$80,281) - (\$20)  Basic loss per share  Total basic loss per share (\$32)(\$3,48)(\$0,42)  Diluted earnings loss per share	comprehensive income that will be						
income that will be reclassified to profit  or loss  ( 342,311) ( 2) ( 123,462) ( 1)  Other comprehensive loss for the year  (\$ 19,997) - (\$ 597,231) ( 3)  Total comprehensive loss for the year  (\$ 3,957,517) ( 25) (\$ 1,103,095) ( 5)  Loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$ 183,723) ( 1) (\$ 456,146) ( 2)  Comprehensive loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$ 3,753,797) ( 24) (\$ 456,146) ( 2)  Equity holders of the parent company Non-controlling interest  (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)  Non-controlling interest  (\$ 237,180) ( 1) (\$ 80,281) -  Basic loss per share  Total basic loss per share  (\$ 3.48) (\$ 0.42)  Diluted earnings loss per share	reclassified to profit or loss			72,214	1	50,281	_
or loss         ( 342,311) ( 2) ( 123,462) ( 1)           Other comprehensive loss for the year         (\$ 19,997) - (\$ 597,231) ( 3)           Total comprehensive loss for the year         (\$ 3,957,517) ( 25) (\$ 1,103,095) ( 5)           Loss attributable to:         Equity holders of the parent company         (\$ 3,753,797) ( 24) (\$ 456,146) ( 2)           Non-controlling interest         (\$ 183,723) ( 1) (\$ 49,718) -           Comprehensive loss attributable to:         Equity holders of the parent company         (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)           Non-controlling interest         (\$ 237,180) ( 1) (\$ 80,281) -           Basic loss per share         (\$ 3,48) (\$ 0.42)           Diluted earnings loss per share         (\$ 3,48) (\$ 0.42)	Components of other comprehensive						
Other comprehensive loss for the year         (\$ 19,997) - (\$ 597,231) ( 3)           Total comprehensive loss for the year         (\$ 3,957,517) ( 25) (\$ 1,103,095) ( 5)           Loss attributable to:         Equity holders of the parent company Non-controlling interest         (\$ 3,753,797) ( 24) (\$ 456,146) ( 2)           Comprehensive loss attributable to:         Equity holders of the parent company Non-controlling interest         (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)           Basic loss per share         (\$ 237,180) ( 1) (\$ 80,281) -           Total basic loss per share         (\$ 3.48) (\$ 0.42)	income that will be reclassified to profit						
Comprehensive loss for the year   (\$ 3,957,517) ( 25) (\$ 1,103,095) ( 5)	or loss		()	342,311) (	<u>2</u> ) (	123,462) (	1)
Equity holders of the parent company	Other comprehensive loss for the year		( \$	19,997)	<u>-</u> ( <u>\$</u>	597,231) (	3)
Equity holders of the parent company Non-controlling interest  (\$ 3,753,797) ( 24) (\$ 456,146) ( 2)  (\$ 183,723) ( 1) (\$ 49,718) -  Comprehensive loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)  Non-controlling interest  (\$ 237,180) ( 1) (\$ 80,281) -  Basic loss per share  Total basic loss per share  (\$ 3,48) (\$ 0.42)  Diluted earnings loss per share	Total comprehensive loss for the year		(\$	3,957,517) (	<u>25</u> ) (\$	1,103,095) (	<u>5</u> )
Non-controlling interest  Comprehensive loss attributable to:  Equity holders of the parent company Non-controlling interest  (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)  Non-controlling interest  (\$ 237,180) ( 1) (\$ 80,281) -  Basic loss per share  Total basic loss per share  (\$ 3,48) (\$ 0.42)  Diluted earnings loss per share	Loss attributable to:						
Comprehensive loss attributable to:           Equity holders of the parent company         (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)           Non-controlling interest         (\$ 237,180) ( 1) (\$ 80,281) -           Basic loss per share         Total basic loss per share           Total basic loss per share         (\$ 3.48) (\$ 0.42)           Diluted earnings loss per share	Equity holders of the parent company		( \$	3,753,797) (	24) (\$	456,146) (	2)
Comprehensive loss attributable to:           Equity holders of the parent company         (\$ 3,720,337) ( 24) (\$ 1,022,814) ( 5)           Non-controlling interest         (\$ 237,180) ( 1) (\$ 80,281) -           Basic loss per share         Total basic loss per share           Total basic loss per share         (\$ 3.48) (\$ 0.42)           Diluted earnings loss per share	Non-controlling interest		(\$	183,723) (	1)(\$	49,718)	_
Equity holders of the parent company Non-controlling interest  (\$\frac{3,720,337}{237,180}(\frac{24}{1})(\frac{\$\frac{5}{80,281}}(\frac{5}{1}) \)  Basic loss per share  Total basic loss per share  6(32)  (\$\frac{3,720,337}{237,180}(\frac{1}{1})(\frac{\$\frac{5}{80,281}}(\frac{5}{1}) \)  Ultimates \frac{3,20,337}{1}(\frac{24}{1})(\frac{\$\frac{5}{80,281}}(\frac{5}{1})(\frac{5}{80,281})(\frac{5}{1})(	Comprehensive loss attributable to:						
Non-controlling interest (\$ 237,180) (1) (\$ 80,281) —  Basic loss per share  Total basic loss per share 6(32) (\$ 3.48) (\$ 0.42)  Diluted earnings loss per share	-		(\$	3,720,337) (	24) (\$	1,022,814) (	5)
Total basic loss per share 6(32) (\$\frac{3.48}{3.48}\) (\$\frac{0.42}{3.48}\)							-
Diluted earnings loss per share	Basic loss per share						
	•	6(32)	(\$		3.48) (\$		0.42)
Total diluted loss per share $6(32)$ ( $$ 3.48$ ) ( $$ 0.42$ )	Diluted earnings loss per share						
	Total diluted loss per share	6(32)	(\$		3.48) (\$		0.42)

The accompanying notes are an integral part of these consolidated financial statements.

# EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTA OF CHANGES IN EQUITY YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

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(Continued)

EPISTAR CORPORATION AND SUBSIDIARIES
CONSOLIDATED STATEMENTA SO F CHANGES IN GOUTY
YEARS ENDED DECEMBER 31, 2019 AND 2018
(Expressed in thousands of New Taiwan dollars)

						Equity attributable to owners of the parent	wners of the parent						
					Retained earnings			Other equity interest	st				
	Notes	Share capital - common stock	Capital surplus	Legal reserve	Special reserve	Unappropriated retained earnings(accumulated deficit)	Cumulative translation differences of foreign operations	Unrealised gains (losses) from financial assets measured at fair value through other comprehensive income	Unrealized gain or loss on available-for- sale financial assets	Treasury stocks	Total	Non-controlling interest	Total
<u>2019</u> Balance at January 1, 2019		\$ 10,887,014	\$ 39,515,679	\$ 161,423	\$ 703,607	(\$ 385,142)	(\$ 499,815)	(\$ 818,175)	€	(\$ 211,008)	\$ 49,353,583	\$ 1,554,327	\$ 50,907,910
Loss for the year	6(22)	•				( 3,753,797 )					( 3,753,797)	( 183,723 )	3,937,520)
Other comprehensive income(loss) for the year	6(23)			٠		4,287	( 288,854 )	318,027			33,460	( 53,457 )	( 766,61
Total comprehensive income(loss)		'	ļ ·		'	3,749,510)	( 288,854 )	318,027	'	'	( 3,720,337)	( 237,180 )	3,957,517)
Appropriations of 2018	6(21)												
Special reserve appropriated			•		( 385,142 )	385,142							
Cash dividends distributed from capital surplus	6(21)	٠	( 324,270 )								324,270 )	1	324,270 )
Difference between consideration and carrying amount of subsidiaries acquired and disposed	6(21)		7,304			,	,				7,304		7,304
Changes in ownership interests in subsidiaries accounted for using equity method	6(21)		14,059				•		•		14,059	151,950	166,009
Proceeds from disposal of investments accounted for using equity method	6(23)	•					3,332	,	٠		3,332		3,332
Purchase of treasury shares				•				•		( 114,482)	)		114,482)
Cash paid for acquisition of non- controlling interests in subsidiaries						•	•	•	•			8,848)	8,848)
Non-controlling interests Balance at December 31, 2019		\$ 10,887,014	\$ 39,212,772	\$ 161,423	\$ 318,465	(\$ 3,749,510)	(\$ 785,337)	(\$ 500,148)	€	(\$ 325,490)	\$ 45,219,189	\$15,920	\$15,920 \$ 47,195,358

The accompanying notes are an integral part of these consolidated financial statements.

## EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS

#### YEARS ENDED DECEMBER 31,2019 AND 2018

(Expressed in thousands of New Taiwan dollars)

	Notes		2019		2018
ASH FLOWS FROM OPERATING ACTIVITIES					
Loss before tax		(\$	3,754,102)	(\$	867,141
Adjustments		( φ	3,734,102 )	(ψ	007,141
Adjustments to reconcile profit (loss)					
Depreciation	6(7)(29)		4,856,814		4,758,265
Amortization (long-term prepaid rents)	6(9)(29)		260,469		274,152
(Reversal of) expected credit losses	12(2)	(	17,897)		5,693
Net gain on financial assets at fair value through profit or loss	6(27)	(	319,276)	(	12,38
Interest expense	6(28)	(	159,726	(	185,41
Interest income	6(26)	(	53,916)	,	50,650
Dividend income	6(26)	(			13,940
	` /	(	29,330)	(	
Effect of exchange rate on loans	6(35)		1,105	(	47
Share of (gain) loss of associates and joint ventures accounted	6(6)		01 000	,	04.14
for under the equity method	6(11)(05)		21,383	(	24,14
Impairment loss on non-financial assets	6(11)(27)		209,803		659,77
Loss on disposal of property, plant and equipment	6(27)		1,031		113,21
Loss on disposal of non-current assets held for sale	c ( = = )		1,294		240.04
Loss (gain) on disposal of investments	6(27)		36,955	(	310,91
Gain (loss) on disposal of intangible assets	6(27)	(	5,698)		14
Bargain purchase gains	6(27)	(	160,110)		
Other income from recognition of long-term deferred	6(19)				
revenues		(	188,081)	(	161,43
Property, plant and equipment transferred to expenses			100,994		5,85
Expense transferred to property, plant and equipment		(	7,318)		
Expenses transferred to intangible assets		(	14,403)		
Realized loss (profit) from sales			2,795	(	21,08
Unrealized loss from sales		(	4,266)	(	2,79
Changes in operating assets and liabilities					
Changes in operating assets					
Financial assets at fair value through profit or loss		(	328,148)	(	209,57
Notes receivable		(	791,870)		369,37
Accounts receivable			2,068,668		451,89
Other receivables			104,970		633,93
Inventories			1,489,912	(	49,25
Prepayments			182,869		55,77
Other non-current assets			94,142		74,32
Changes in operating liabilities			,		,
Notes payable			277,199		58,14
Accounts payable		(	978,059)	(	575,610
Other payables		(	642,277)		515,38
Other current liabilities			27,010		42,40
Other non-current liabilities		(	4,312)	(	24,080
Cash inflow generated from operations		\	2,598,076	\	4,849,520
ncome tax paid		(	40,019)	(	211,36
interest received		(	52,717	(	51,28
Interest received		(	161,118)	(	
Dividend received		(		(	173,884
			61,604		40,649
Net cash flows from operating activities			2,511,260		4,556,21

(Continued)

## EPISTAR CORPORATION AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS

#### YEARS ENDED DECEMBER 31,2019 AND 2018

(Expressed in thousands of New Taiwan dollars)

	Notes		2019		2018
CASH FLOWS FROM INVESTING ACTIVITIES					
Decrease (increase) in other financial assets		\$	139,253	(\$	254,105)
Cash refund from financial assets capital reduction		•	23,903	( +	12,923
Acquisition of non-current financial assets at fair value through			,		,
other comprehensive income		(	52,196)	(	396,196)
Proceeds from disposal of non-current financial assets at fair					
value through other comprehensive income			-		3,052
Acquisition of investments accounted for under the equity					
method			-	(	128,423)
Proceeds from disposal of investments accounted for under the	6(6)				
equity method			18,150		273,064
Acquisition for property, plant and equipment	6(34)	(	2,982,472)	(	3,168,197)
Proceeds from disposal of property, plant and equipment	6(34)		192,241		76,272
Acquisition of intangible assets	6(34)	(	120,918)	(	131,521)
Proceeds from disposal of intangible assets			9,887		-
Decrease (increase) in refundable deposits paid			88,253	(	76,295)
Effect on initial consolidation of subsidiaries	6(33)		160,417		-
Net cash flows used in investing activities		(	2,523,482)	(	3,789,426)
CASH FLOWS FROM FINANCING ACTIVITIES			<u>.</u>		_
(Decrease) increase in short-term loans	6(35)	(	133,587)		1,203,014
Increase (decrease) in short-term notes and bill payable	6(35)		2,035	(	11,614)
Repayment of long-term loans	6(35)	(	599,619)	(	3,693,038)
Proceeds from long-term loans	6(35)		1,031,500		1,160,000
(Decrease) increase in guarantee deposits received		(	5,790)		22,251
Repayment of principal portion of lease liabilities		(	141,969)		-
Cash dividends distributed to non-controlling interest		(	8,848)	(	29,329)
Purchase of treasury share		(	114,482)	(	75,845)
Proceed from treasury share transferred to employees			-		286,897
Increase in cash paid for acquisition of non-controlling interests			167,000		66,328
Payment of cash dividends (including distribution from capital	6(21)				
surplus)		(	324,270)	(	870,961)
Net cash flows used in financing activities		(	128,030)	(	1,942,297)
Effects of foreign currency exchange		(	139,434)	(	128,677)
Net decrease in cash and cash equivalents		(	279,686)	(	1,304,188)
Cash and cash equivalents at beginning of year					
			5,532,509		6,836,697

The accompanying notes are an integral part of these consolidated financial statements.

# EPISTAR CORPORATION AND SUBSIDIARIES NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars, except as otherwise indicated)

#### 1. HISTORY AND ORGANIZATION

Epistar Corporation (the "Company") was incorporated on September 19, 1996 and commenced its operations in August 1997. The Company's shares have been traded on the Taiwan Stock Exchange in the Republic of China since May 2001.

Effective October 1, 2003, Inforcomm Semiconductor Corporation was merged with the Company. The Company acquired United Epitaxy Company Ltd. on December 30, 2005, Epitech Technology Corporation and Highlink Technology Corporation on March 1, 2007, and CHIP STAR Ltd. on June 29, 2015, and the Group merged with Huga Optotech Inc. and Formosa Epitaxy Incorporation on September 29, 2016.

The Company and its subsidiaries (collectively referred herein as the "Group") are engaged in the research and development, design, manufacturing and sales of EPI wafers and chips of A1GaInP, AlGaAs and InGaN.

## 2. THE DATE OF AUTHORIZATION FOR ISSUANCE OF THE CONSOLIDATED FINANCIAL STATEMENTS AND PROCEDURES FOR AUTHORIZATION

These consolidated financial statements were authorized for issuance by the Board of Directors on February 26, 2020.

#### 3. APPLICATION OF NEW STANDARDS, AMENDMENTS AND INTERPRETATIONS

(1) Effect of the adoption of new issuances of or amendments to International Financial Reporting Standards ("IFRS") as endorsed by the Financial Supervisory Commission ("FSC")

New standards, interpretations and amendments endorsed by the FSC effective from 2019 are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 9, 'Prepayment features with negative compensation'	January 1, 2019
IFRS 16, 'Leases'	January 1, 2019
Amendments to IAS 19, 'Plan amendment, curtailment or settlement'	January 1, 2019
Amendments to IAS 28, 'Long-term interests in associates and joint ventures'	January 1, 2019
IFRIC 23, 'Uncertainty over income tax treatments'	January 1, 2019
Annual improvements to IFRSs 2015-2017 cycle	January 1, 2019

Except for the following, the above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment. IFRS 16, 'Leases'

A. IFRS 16, 'Leases', replaces IAS 17, 'Leases' and related interpretations and SICs. The standard requires lessees to recognise a 'right-of-use asset' and a lease liability (except for those leases with terms of 12 months or less and leases of low-value assets). The accounting stays the same for lessors, which is to classify their leases as either finance leases or operating leases and account for those two types of leases differently. IFRS 16 only requires enhanced disclosures to be provided by lessors.

- B. The Group has elected to apply IFRS 16 by not restating the comparative information (referred herein as the 'modified retrospective approach') when applying "IFRSs" effective in 2019 as endorsed by the FSC. Accordingly, the Group increased 'right-of-use asset' by \$1,689,828, increased 'lease liability' by \$1,441,297 and decreased retained earnings by \$248,530 with respect to the lease contracts of lessees on January 1, 2019.
- C. The Group has used the following practical expedients permitted by the standard at the date of initial application of IFRS 16:
  - (a) Reassessment as to whether a contract is, or contains, a lease is not required, instead, the application of IFRS 16 depends on whether or not the contracts were previously identified as leases applying IAS 17 and IFRIC 4.
  - (b) The use of a single discount rate to a portfolio of leases with reasonably similar characteristics.
  - (c) The accounting for operating leases whose period will end before December 31, 2019 as short-term leases and accordingly, rent expense of \$23,389 was recognised in the fourth quarter of 2019.
  - (d) The exclusion of initial direct costs for the measurement of 'right-of-use asset'.
  - (e) The use of hindsight in determining the lease term where the contract contains options to extend or terminate the lease.
- D. The Group calculated the present value of lease liabilities by using the weighted average incremental borrowing interest rate range from 1.855% to 4.35%.
- E. The Group recognised lease liabilities which had previously been classified as 'operating leases' under the principles of IAS 17, 'Leases'. The reconciliation between operating lease commitments under IAS 17 measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate and lease liabilities recognised as of January 1, 2019 is as follows:

Operating lease commitments disclosed by applying IAS 17 as at December	\$	831,026
31, 2018		
Less: Short-term leases	(	8,855)
Add: Adjustments as a result of a different treatment of		
extension and termination options		779,526
Add: Adjustments relating to changes in the index or rate		
affecting variable lease payments	(	12,759)
Total lease contracts amount recognised as lease liabilities by applying IFRS	S	
16 on January 1, 2019		1,588,938
Incremental borrowing interest rate at the date of initial application	_1.	.855%~4.35%
Lease liabilities recognised as at January 1, 2019 by applying IFRS 16	\$	1,441,297

(2) Effect of new issuances of or amendments to IFRSs as endorsed by the FSC but not yet adopted by the Group

New standards, interpretations and amendments endorsed by the FSC effective from 2018 are as follows:

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	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendment to IAS 1 and IAS 8, 'Disclosure Initiative-Definition	January 1, 2020
of Material'	

# Effective date by International Accounting

New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 3, 'Definition of a business'	January 1, 2020
Amendments to IFRS 9, IAS 39 and IFRS7, 'Interest rate	January 1, 2020
benchmark reform'	

The above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment.

#### (3) IFRSs issued by IASB but not yet endorsed by the FSC

New standards, interpretations and amendments issued by IASB but not yet included in the IFRSs endorsed by the FSC are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 10 and IAS 28, 'Sale or contribution of assets	To be determined by
between an investor and its associate or joint venture'	International Accounting
IFRS 17, 'Insurance contracts'  Amondments to IAS 1, 'Classification of liabilities as current or non-	Standards Board January 1, 2021
Amendments to IAS 1, 'Classification of liabilities as current or non- current'	January 1, 2022

The above standards and interpretations have no significant impact to the Group's financial condition and financial performance based on the Group's assessment.

#### 4. <u>SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES</u>

The principal accounting policies applied in the preparation of these consolidated financial statements are set out below. These policies have been consistently applied to all the periods presented, unless otherwise stated.

#### (1) Compliance statement

These consolidated financial statements of the Group have been prepared in accordance with the "Regulation Governing the Preparation of Financial Reports by Securities Issuers" and the International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the FSC (collectively referred herein as the "IFRSs").

#### (2) Basis of preparation

- A. Except for the following items, these consolidated financial statements have been prepared under the historical cost convention:
  - (a) Financial assets and financial liabilities at fair value through profit or loss.
  - (b) Defined benefit liabilities recognized based on the net amount of pension fund assets less present value of defined benefit obligation.
- B. The preparation of financial statements in compliance with IFRSs requires the use of certain critical accounting estimates. It also requires management to exercise its judgment in the process of applying the Group's accounting policies. The areas involving a higher degree of judgment or complexity, or areas where assumptions and estimates are significant to the consolidated financial statements are disclosed in Note 5.

#### (3) Basis of consolidation

- A. Basis for preparation of consolidated financial statements:
  - (a) All subsidiaries are included in the Group's consolidated financial statements. Subsidiaries are all entities controlled by the Group. The Group controls an entity when the Group is exposed, or has rights, to variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Consolidation of subsidiaries begins from the date the Group obtains control of the subsidiaries and ceases when the Group loses control of the subsidiaries.
  - (b) Inter-company transactions, balances and unrealized gains or losses on transactions between companies within the Group are eliminated. Accounting policies of subsidiaries have been adjusted where necessary to ensure consistency with the policies adopted by the Group.
  - (c) Profit or loss and each component of other comprehensive income are attributed to the owners of the parent and to the non-controlling interests. Total comprehensive income is attributed to the owners of the parent and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.
  - (d) Changes in a parent's ownership interest in a subsidiary that do not result in the parent losing control of the subsidiary (transactions with non-controlling interests) are accounted for as equity transactions, i.e. transactions with owners in their capacity as owners. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity.
  - (e) When the Group loses control of a subsidiary, the Group remeasures any investment retained in the former subsidiary at its fair value. That fair value is regarded as the fair value on initial recognition of a financial asset or the cost on initial recognition of the associate or joint venture. Any difference between fair value and carrying amount is recognized in profit or loss. All amounts previously recognized in other comprehensive income in relation to the subsidiary are reclassified to profit or loss, on the same basis as would be required if the related assets or liabilities were disposed of. That is, when the Group loses control of a subsidiary, all gains or losses previously recognized in other comprehensive income in relation to the subsidiary should be reclassified from equity to profit or loss, if such gains or losses would be reclassified to profit or loss when the related assets or liabilities are disposed of.

#### B. Subsidiaries included in the consolidated financial statements:

			Owne	ership	
Name of		Main Business	December	December	
Investor	Name of Subsidiary	Activities	31, 2019	31, 2018	Description
Epistar Corporation	Lighting Investment Corporation	Professional investment	100%	100%	
Epistar Corporation	Epistar JV Holding (B.V.I.) Co., Ltd.	Professional investment	100%	100%	Note 7
Epistar Corporation	Yen- Rich Technology Corporation	Manufacturing and sales of LED wafers and chips	100%	100%	Note 5
Epistar Corporation	GaN Ventures Co., Limited	Investment holding; sales of electronic components	59.02%	59.02%	
Epistar Corporation	SH Optotech Co.,Ltd.	Manufacturing and sales of LED wafers and chips	49%	49%	Note 2

			Owne	rship	
Name of		Main Business	December	December	
Investor	Name of Subsidiary	Activities	31, 2019	31, 2018	Description
Epistar Corporation	Ecoled Venture Co., Limited	Sales of LED lighting products	-	51.99%	Note 13
Epistar Corporation	Full Star Enterprises Limited	Professional investment	100%	100%	
Epistar Corporation	iReach Corporation	Manufacturing, sales, packaging and module design of semiconductor light emitting devices	100%	100%	Note 3
Epistar Corporation	Unikorn Semiconductor Corporation	OEM manufacturing of iii-v semiconductors	85.91%	100%	Note 6
Epistar Corporation	ProLight Opto Technology corporation	Manufacturing and sales of LED wafers and chips	8.52%	12.83%	Note 11
Epistar Corporation	GAN Force Corporation	Design manfacturing and sales of LED	64.31%	-	Note 15
Epistar JV Holding (BVI) Co., Ltd.	LiteStar JV Holding (BVI) Co., Ltd.	Professional investment	82.41%	82.41%	
Epistar JV Holding (B.V.I) Co., Ltd.	United LED Corporation (Hong Kong) Limited	Professional investment	74.86%	74.86%	
Epistar JV Holding (BVI) Co., Ltd.	Episky Hong Kong Co., Limited	Professional investment	100%	100%	Note 8
Epistar JV Holding (BVI) Co., Ltd.	HUGA Holding (SAMOA) Limited	Professional investment	100%	100%	Note 8
Epistar JV Holding(BVI) Co., Ltd	Crystal Light Enterprises Group Limited	Professional investment	100%	100%	Note 8
Epistar JV Holding(BVI) Co., Ltd	Can Yang Investments Limited	Professional investment	80.10%	80.10%	Note 8
LiteStar JV Holding	Epicrystal (Hong Kong) Co., Limited	Professional investment	100%	100%	
Epicrystal (Hong Kong) Co., Limited	Epicrystal Corporation (Changzhou) Ltd.	Manufacturing and sales of LED wafers and chips	93.38%	93.38%	
United LED Corporation (Hong Kong) Limited	United LED Corporation (Shandong) Limited	Manufacturing and sales of LED wafers and chips	100%	100%	
Episky (Hong Kong) Limited	Episky Corporation (Xiamen) Ltd.	Manufacturing and sales of LED wafers and chips	100%	100%	
Episky Corporation (Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Manufacturing and sales of LED wafers and chips	3.31%	3.31%	
Episky Corporation (Xiamen) Ltd.	Episky Corporation (Changzhou) Ltd.	Manufacturing and sales of LED wafers and chips	-	100%	Note 13

			Owne	rshin	
Name of		Main Business	December	December	
Investor	Name of Subsidiary	Activities	31, 2019	31, 2018	Description
Episky Coporation	EPIRICH	R&D and sales of LEDs		100%	Note 10
(Xiamen)Ltd.	(Guangzhou) Co., Ltd	TOO and suits of EEDs		10070	11010 10
(Trainer) Eta.	(Guangznou) co., Eta				
<b>HUGA Holding</b>	Ecoled Venture Co.,	Sales of LED lighting	-	48.01%	Note 13
(Samoa) Limited	Limited	products			
Crystal Light	Ningbo Formosa	Trading of LED epitaxy	100%	100%	
Enterprise Group	<b>Epitaxy Incorporation</b>	and chips			
GaN Ventures Co.,	GV Semiconductor	R&D and sales of	-	100%	Note 14
Limited	Inc.	electronic components			
Lighting Investment	Lighting Investment	Professional investment	100%	100%	
Corporation	Ltd.				
Lighting Investment	allureLux	Manufacturing and sales	100%	100%	Note 1
Corporation	Corporation	of LED wafers and chips			
Lighting	Crystaluxx SARL	Professional investment	100%	100%	Note 4
Investment					
Corporation.					
Lighting	Yen-Rich Opto (Hong	• •	100%	100%	Note 4
Investment	Kong) Limited	products			
Corporation.					
Lighting	-	Professional investment	6.87%	6.87%	Note 4
Investment	Limited				
Corporation.	D. I. L. O.	N. C	40.460/	20.020/	37 . 11
Lighting	ProLight Opto	Manufacturing and sales	40.46%	29.93%	Note 11
Investment	Technology	of LED wafers and chips			
Corporation. Lighting Investment	corporation Luxlite (Hong Kong)	Professional investment	75%	75%	
Ltd.	Corporation Limited	i iotessionai nivestinent	13/0	7370	
Lighting Investment	Epistar (Hong Kong)	Professional investment	100%	100%	
Ltd.	Limited	1 Totessional nivestment	10070	10076	
Lighting Investment	GaN Ventures	Investment holding; sales	4.92%	4.92%	
Ltd.	Co., Limited	of electronic components	7.72/0	7.72/0	
Can Yang Investments		Manufacturing and sales	100%	100%	
Limited	Optoelectronics Ltd.	of LED wafers and chips	10070	10070	
Luxlite (Hong Kong)	Luxlite (Shenzhen)	Sales of LED chips and	100%	100%	
Corporation Limited	Corporation Limited	LED lighting facilities	100,0	100,0	
AllureLux	AllureLux Inc	Manufacturing and sales	_	100%	Note 1
Coporation		of LED wafers and chips			
Yen-Rich Technology	ProLight Opto	Manufacturing and sales	3.62%	1.18%	Note 11
Corporation	Technology	of LED wafers and chips			
•	corporation	•			
Prolight Opto	ProLight Opto	Professional investment	100%	100%	Note 12
Technology	Technology				
Corporation	corporation				
Prolight Opto	ProLight Opto	Professional investment	100%	100%	Note 12
Technology	Technology				
Corporation	corporation			40	
Prolight Opto	Shanghai Welight	Wholesale and export and	100%	100%	Note 12
Technology	Electronic Co., LTD	import of LED and related			
Corporation		electronic products			

- Note 1: Newly invested or established companies for the year ended December 31, 2018.
- Note 2: Due to the control over the entity's financial and operational policies, this company is included in the consolidated financial statements.
- Note 3: A preparatory office was set up in December 2017. The registration for the subsidiary's incorporation was completed on January 9, 2018.
- Note 4: Lighting Investment Ltd. proceeded with a simple merger with EPI Crystal Investment Inc. on July 1, 2018. Lighting Investment Ltd. was the surviving company while EPI Crystal Investment Inc. was the dissolved company. Thus, Lighting Investment Ltd. succeeded the shares initially held by EPI Crystal Investment Inc.
- Note 5: On August 13, 2018, Zheng-Yi Technology Corporation has been renamed as Yen-Rich Technology Corporation.
- Note 6: On October 1, 2018, the parent company established the Unikorn Semiconductor Corporation due to the spin-off and transfer of its operation for iii-v semiconductors OEM business. On February 20, 2019, the Board of Directors of Unikorn Semiconductor Corporation during their meeting resolved to increase its capital in the amount of \$164,000. The parent company did not participate in the capital increase, therefore, the parent company's shareholding ratio was decreased to 85.91%.
- Note 7: Epistar JV Holding (BVI) Co., Ltd. proceeded with a simple merger with UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited on November 1, 2018. Epistar JV Holding (BVI) Co., Ltd. was the surviving company while UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited were the dissolved companies.
- Note 8: Epistar JV Holding (BVI) Co., Ltd. proceeded with a simple merger with UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited on November 1, 2018. Epistar JV Holding (BVI) Co., Ltd. was the surviving company while UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited were the dissolved companies. Thus, Epistar JV Holding (BVI) Co., Ltd. succeeded the shares initially held by UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited.
- Note 9: The liquidation was completed on February, 2019, as the company will not continue its operation.
- Note 10: The liquidation was completed on April, 2019, as the company will not continue its operation.
- Note11: Lighting Investment Corporation participated in ProLight Opto Technology Corporation's private placement. The Group's shareholding ratio toProLight Opto Technology Corporation was increased to 52.6% and the Group has control overProLight Opto Technology Corporation starting from April 11, 2019, whereby ProLight Opto Technology Corporation became one of the Group's subsidiaries.
- Note12: ProLight Opto Technology Corporation became one of the Group's subsidiaries, and its wholly-owned subsidiaries were included in the Group's consolidated entities.
- Note13:The liquidation was completed on December, 2019 as the company will not continue its operation.
- Note14: On November 11, 2019, GAN Force Corporation acquired a 100% equity interest in GV Semiconductor Inc. from GaN Ventures Co., Limited.
- Note 15: Newly invested or established companies for the year ended December 31, 2019.
- C. Subsidiaries not included in the consolidated financial statements: None.
- D. Adjustments for subsidiaries with different balance sheet dates: None.
- E. Significant restrictions: None.
- F. Subsidiaries that have non-controlling interest that are material to the Group: None.

#### (4) Foreign currency translation

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the "functional currency"). The consolidated financial statements are presented in New Taiwan dollars, which is the Company's functional and the Group's presentation currency.

#### A. Foreign currency transactions and balances

- (a) Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are remeasured. Foreign exchange gains and losses resulting from the settlement of such transactions are recognized in profit or loss in the period in which they arise.
- (b) Monetary assets and liabilities denominated in foreign currencies at the period end are retranslated at the exchange rates prevailing at the balance sheet date. Exchange differences arising upon re-translation at the balance sheet date are recognized in profit or loss.
- (c) Non-monetary assets and liabilities denominated in foreign currencies held at fair value through profit or loss are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in profit or loss as part of the fair value gain or loss. Non-monetary assets and liabilities denominated in foreign currencies held at fair value through other comprehensive income are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in other comprehensive income. However, non-monetary assets and liabilities denominated in foreign currencies that are not measured at fair value are translated using the historical exchange rates at the dates of the initial transactions.
- (d) Foreign exchange gains and losses that relate to borrowings and cash and cash equivalents are presented in the statement of comprehensive income within "interest income or finance costs". All other foreign exchange gains and losses based on the nature of those transactions are presented in the statement of comprehensive income within "other gains and losses".

#### B. Translation of foreign operations

- (a) The operating results and financial position of all the group entities that have a functional currency different from the presentation currency are translated into the presentation currency as follows:
  - i. Assets and liabilities for each balance sheet presented are translated at the closing exchange rate at the date of that balance sheet;
  - ii. Income and expenses for each statement of comprehensive income are translated at average exchange rate of that period; and
  - iii. All resulting exchange differences are recognized in other comprehensive income.
- (b) When the foreign operation partially disposed of or sold is an associate or jointly controlled entity, exchange differences that were recorded in other comprehensive income are proportionately reclassified to profit or loss as part of the gain or loss on sale. In addition, even when the Group still retains partial interest in the former foreign associate or jointly controlled entity after losing significant influence over the former foreign associate, or losing joint control of the former jointly controlled entity, such transactions should be accounted for as disposal of all interest in these foreign operations.
- (c) When the foreign operation partially disposed of or sold is a subsidiary, cumulative exchange differences that were recorded in other comprehensive income are proportionately transferred to the non-controlling interest in this foreign operation. In addition, even when the Group still retains partial interest in the former foreign subsidiary after losing control of the former foreign subsidiary, such transactions should be accounted for as disposal of all interest in the foreign operation.

(d) Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing exchange rates at the balance sheet date.

#### (5) Classification of current and non-current items

- A. Assets that meet one of the following criteria are classified as current assets; otherwise they are classified as non-current assets:
  - (a) Assets arising from operating activities that are expected to be realized, or are intended to be sold or consumed within the normal operating cycle;
  - (b) Assets held mainly for trading purposes;
  - (c) Assets that are expected to be realized within twelve months from the balance sheet date;
  - (d) Cash and cash equivalents, excluding restricted cash and cash equivalents and those that are to be exchanged or used to pay off liabilities more than twelve months after the balance sheet date.
- B. Liabilities that meet one of the following criteria are classified as current liabilities; otherwise they are classified as non-current liabilities:
  - (a) Liabilities that are expected to be settled within the normal operating cycle;
  - (b) Liabilities arising mainly from trading activities;
  - (c) Liabilities that are to be settled within twelve months from the balance sheet date;
  - (d) Liabilities for which the repayment date cannot be extended unconditionally to more than twelve months after the balance sheet date. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

#### (6) Cash equivalents

Cash equivalents refer to short-term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. Time deposits that meet the definition above and are held for the purpose of meeting short-term cash commitments in operations are classified as cash equivalents.

#### (7) Financial assets at fair value through profit or loss

- A. Financial assets at fair value through profit or loss are financial assets that are not measured at amortised cost or fair value through other comprehensive income.
- B. On a regular way purchase or sale basis, the derivative financial assets are recognised and derecognised using trade date accounting, the beneficiary certificates are recognised and derecognised using settlement date accounting.
- C. At initial recognition, the Group measures the financial liabilities at fair value. All related transaction costs are recognised in profit or loss. The Group subsequently measures these financial liabilities at fair value with any gain or loss recognised in profit or loss.
- D. The Group recognises the dividend income when the right to receive payment is established, future economic benefits associated with the dividend will flow to the Group and the amount of the dividend can be measured reliably.

#### (8) Financial assets at fair value through other comprehensive income

- A. Financial assets at fair value through other comprehensive income comprise equity securities which are not held for trading, and for which the Company has made an irrevocable election at initial recognition to recognise changes in fair value in other comprehensive income and debt instruments which meet all of the following criteria:
  - (a) The objective of the Company's business model is achieved both by collecting contractual cash flows and selling financial assets; and
  - (b) The assets' contractual cash flows represent solely payments of principal and interest.
- B. On a regular way purchase or sale basis, financial assets at fair value through other comprehensive income are recognised and derecognised using trade date accounting.

C. At initial recognition, the Group measures the financial assets at fair value plus transaction costs. The Group subsequently measures the financial assets at fair value:

The changes in fair value of equity investments that were recognised in other comprehensive income are reclassified to retained earnings and are not reclassified to profit or loss following the derecognition of the investment. Dividends are recognised as revenue when the right to receive payment is established, future economic benefits associated with the dividend will flow to the Company and the amount of the dividend can be measured reliably.

#### (9) Accounts and notes receivable

- A. Accounts and notes receivable entitle the Group a legal right to receive consideration in exchange for transferred goods or rendered services.
- B. The short-term accounts and notes receivable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (10) Impairment of financial assets

For debt instruments measured at fair value through other comprehensive income and financial assets at amortised cost including accounts receivable or contract assets that have a significant financing component, lease receivables, loan commitments and financial guarantee contracts, at each reporting date, the Group recognises the impairment provision for 12 months expected credit losses if there has not been a significant increase in credit risk since initial recognition or recognises the impairment provision for the lifetime expected credit losses (ECLs) if such credit risk has increased since initial recognition after taking into consideration all reasonable and verifiable information that includes forecasts. On the other hand, for accounts receivable or contract assets that do not contain a significant financing component, the Group recognises the impairment provision for lifetime ECLs.

#### (11) Derecognition of financial assets

The Group derecognizes a financial asset when one of the following conditions is met:

- A. The contractual rights to receive cash flows from the financial asset expire.
- B. The contractual rights to receive cash flows from the financial assets have been transferred and the Group has transferred substantially all risks and rewards of ownership of the financial assets.
- C. The Group neither retains nor transfers substantially all risks and rewards of ownership of the financial asset; however, it has not retained control of the financial asset.

#### (12) Leasing arrangements (lessor)—lease receivables/ operating leases

- A. Based on the terms of a lease contract, a lease is classified as a finance lease if the lessee assumes substantially all the risks and rewards incidental to ownership of the leased asset.
  - (a) At commencement of the lease term, the lessor should record a finance lease in the balance sheet as 'lease receivables' at an amount equal to the net investment in the lease (including initial direct costs). The difference between gross lease receivable and the present value of the receivable is recognised as 'unearned finance income of finance lease'.
  - (b) The lessor should allocate finance income over the lease term based on a systematic and rational basis reflecting a constant periodic rate of return on the lessor's net investment in the finance lease.
  - (c) Lease payments (excluding costs for services) during the lease term are applied against the gross investment in the lease to reduce both the principal and the unearned finance income.
- B. Lease income from an operating lease (net of any incentives given to the lessee) is recognised in profit or loss on a straight-line basis over the lease term.

#### (13) Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the weighted-average method. The cost of finished goods and work in progress comprise raw materials, direct labor, other direct costs and related production overheads (allocated based on normal operating capacity). It excludes borrowing costs the item by item approach is used in applying the

lower of cost and net realizable value. Net realizable value is the estimated selling price in the ordinary course of business, less the estimated cost of completion and applicable variable selling expenses.

#### (14) Non-current assets held for sale

Non-current assets are classified as assets held for sale when their carrying amount is to be recovered principally through a sale transaction rather than through continuing use, and a sale is considered highly probable. They are stated at the lower of carrying amount and fair value less costs to sell.

#### (15) Investments accounted for using the equity method - associates

- A. Associates are all entities over which the Group has significant influence but no control. In general, it is presumed that the investor has significant influence, if an investor holds, directly or indirectly 20 percent or more of the voting power of the investee. Investments in associates are accounted for using the equity method and are initially recognized at cost.
- B. The Group's share of its associates' post-acquisition profits or losses is recognized in profit or loss, and its share of post-acquisition movements in other comprehensive income is recognized in other comprehensive income. When the Group's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Group does not recognize further losses, unless it has incurred legal or constructive obligations or made payments on behalf of the associate.
- C. When changes in an associate's equity that are not recognized in profit or loss or other comprehensive income of the associate and such changes does not affect the Group's ownership percentage of the associate, the Group recognizes change in ownership interests in the associate in 'capital surplus' in proportion to its ownership.
- D. Unrealized gains on transactions between the Group and its associates are eliminated to the extent of the Group's interest in the associates. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been adjusted where necessary to ensure consistency with the policies adopted by the Group.
- E. In the case that an associate issues new shares and the Group does not subscribe or acquire new shares proportionately, which results in a change in the Group's ownership percentage of the associate but maintains significant influence on the associate, then 'capital surplus' and 'investments accounted for under the equity method' shall be adjusted for the increase or decrease of its share of equity interest. If the above condition causes a decrease in the Group's ownership percentage of the associate, in addition to the above adjustment, the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately on the same basis as would be required if the relevant assets or liabilities were disposed of.
- F. Upon loss of significant influence over an associate, the Group remeasures any investment retained in the former associate at its fair value. Any difference between fair value and carrying amount is recognized in profit or loss.
- G. When the Group disposes its investment in an associate, if it loses significant influence over this associate, the amounts previously recognized in other comprehensive income in relation to the associate, are reclassified to profit or loss, on the same basis as would be required if the relevant assets or liabilities were disposed of. If it still retains significant influence over this associate, then the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately in accordance with the aforementioned approach.
- H. When the Group disposes its investment in an associate, if it loses significant influence over this associate, the amounts previously recognized as capital surplus in relation to the associate are transferred to profit or loss. If it still retains significant influence over this associate, then the

amounts previously recognized as capital surplus in relation to the associate are transferred to profit or loss proportionately.

#### (16) Property, plant and equipment

- A. Property, plant and equipment are initially recorded at cost. Borrowing costs incurred during the construction period are capitalized.
- B. Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.
- C. Land is not depreciated. Other property, plant and equipment apply cost model and are depreciated using the straight-line method to allocate their cost over their estimated useful lives. Each part of an item of property, plant, and equipment with a cost that is significant in relation to the total cost of the item must be depreciated separately.
- D. The assets' residual values, useful lives and depreciation methods are reviewed, and adjusted if appropriate, at each financial year-end. If expectations for the assets' residual values and useful lives differ from previous estimates or the patterns of consumption of the assets' future economic benefits embodied in the assets have changed significantly, any change is accounted for as a change in estimate under IAS 8, 'Accounting Policies, Changes in Accounting Estimates and Errors', from the date of the change.

The estimated useful lives of property, plant and equipment are as follows:

Buildings and structures $20 \sim 50$  yearsPlant and construction $3 \sim 15$  yearsMachinery and equipment $2 \sim 20$  yearsTransportation equipment $3 \sim 5$  yearsOffice equipment $2 \sim 20$  yearsLeasehold improvements $3 \sim 15$  years

#### (17) Leasing arrangements (lessee)—right-of-use assets/ lease liabilities

#### Effective 2019

- A. Leases are recognised as a right-of-use asset and a corresponding lease liability at the date at which the leased asset is available for use by the Group. For short-term leases or leases of low-value assets, lease payments are recognised as an expense on a straight-line basis over the lease term
- B. Lease liabilities include the net present value of the remaining lease payments at the commencement date, discounted using the incremental borrowing interest rate.

Lease payments are comprised of the following:

- (a) Fixed payments, less any lease incentives receivable;
- (b) Variable lease payments that depend on an index or a rate; and
- (c) Payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

The Group subsequently measures the lease liability at amortised cost using the interest method and recognises interest expense over the lease term. The lease liability is remeasured and the amount of remeasurement is recognised as an adjustment to the right-of-use asset when there are changes in the lease term or lease payments and such changes do not arise from contract modifications.

- C. At the commencement date, the right-of-use asset is stated at cost comprising the following:
  - (a) The amount of the initial measurement of lease liability;
  - (b) Any lease payments made at or before the commencement date;

- (c) Any initial direct costs incurred by the lessee; and
- (d) An estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located or restoring the underlying asset to the condition required by the terms and conditions of the lease.

The right-of-use asset is measured subsequently using the cost model and is depreciated from the commencement date to the earlier of the end of the asset's useful life or the end of the lease term. When the lease liability is remeasured, the amount of remeasurement is recognised as an adjustment to the right-of-use asset.

#### (18) Leased assets

#### Prior to 2019

Payments made under an operating lease (net of any incentives received from the lessor) are recognized in profit or loss on a straight-line basis over the lease term.

#### (19) Intangible assets

#### A. Patents

Patents are stated at cost and amortized on a straight-line basis over their legal terms or economic service lives, whichever is shorter.

#### B. Technology know-how

Technology know-how is stated at cost and amortized on a straight-line basis over their economic service lives.

#### C. Computer software

Computer software is stated at cost and amortized on a straight-line basis over their estimated useful lives of  $2 \sim 10$  years.

#### D. Goodwill

Goodwill arising from a business combination is accounted for by applying the acquisition method.

#### E. Other intangible assets

Other intangible assets, mainly electricity facilities, are stated at cost and amortized using the straight-line method over 3 to 5 years.

#### (20) Impairment of non-financial assets

- A. The Group assesses at each balance sheet date the recoverable amounts of those assets where there is an indication that they are impaired. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell or value in use. Except for goodwill, when the circumstances or reasons for recognizing impairment loss for an asset in prior years no longer exist or diminish, the impairment loss is reversed. The increased carrying amount due to reversal should not be more than what the depreciated or amortized historical cost would have been if the impairment had not been recognized.
- B. The recoverable amounts of goodwill, intangible assets with an indefinite useful life and intangible assets that have not yet been available for use are evaluated periodically. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. Impairment loss of goodwill previously recognized in profit or loss shall not be reversed in the following years.
- C. For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the cash-generating units, or groups of cash-generating units, that is/are expected to benefit from the synergies of the business combination. Each unit or group of units to which the goodwill is allocated represents the lowest level within the entity at which the goodwill is monitored for internal management purposes. Goodwill is monitored at the operating segment level.

#### (21) Borrowings

- A. Borrowings are recognized initially at fair value, net of transaction costs incurred. Borrowings are subsequently stated at amortized cost; any difference between the proceeds and the redemption value is recognized in profit or loss over the period of the borrowings using the effective interest method.
- B. Fees paid on the establishment of loan facilities are recognized as transaction costs of the loan to the extent that it is probable that some or all of the facility will be drawn down. In this case, the fee is deferred until the drawn-down occurs. To the extent there is no evidence that it is probable that some or all of the facility will be drawn down, the fee is capitalized as a pre-payment for liquidity services and amortised over the period of the facility to which it relates.

#### (22) Notes and accounts payable

- A. Accounts payable are liabilities for purchases of raw materials, goods or services and notes payable are those resulting from operating and non-operating activities.
- B. The short-term notes and accounts payable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (23) Employee benefits

#### A. Short-term employee benefits

Short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in respect of service rendered by employees in a period and should be recognized as expenses in that period when the employees render service.

#### B. Pensions

#### (a) Defined contribution plans

For defined contribution plans, the contributions are recognized as pension expenses when they are due on an accrual basis. Prepaid contributions are recognized as an asset to the extent of a cash refund or a reduction in the future payments.

#### (b) Defined benefit plans

- i. Net obligation under a defined benefit plan is defined as the present value of an amount of pension benefits that employees will receive on retirement for their services with the Group in current period or prior periods. The liability recognized in the balance sheet in respect of defined benefit pension plans is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets. The defined benefit net obligation is calculated annually by independent actuaries using the projected unit credit method. The rate used to discount is determined by using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability; when there is no deep market in high-quality corporate bonds, the Group uses interest rates of government bonds (at the balance sheet date) instead.
- ii. Remeasurement arising on defined benefit plans are recognized in other comprehensive income in the period in which they arise and are recorded as retained earnings.
- iii. Past service costs are recognized immediately in profit or loss.

#### C. Termination benefits

Termination benefits are employee benefits provided in exchange for the termination of employment as a result from either the Group's decision to terminate an employee's employment before the normal retirement date, or an employee's decision to accept an offer of redundancy benefits in exchange for the termination of employment. The Group recognises expense as it can no longer withdraw an offer of termination benefits or it recognises relating restructuring costs, whichever is earlier. Benefits that are expected to be due more than 12 months after balance sheet date shall be discounted to their present value.

D. Employees' compensation and directors' and supervisors' remuneration
Employees' compensation and directors' and supervisors' remuneration are recognized as
expenses and liabilities, provided that such recognition is required under legal obligation or
constructive obligation and those amounts can be reliably estimated. Any difference between the
resolved amounts and the subsequently actual distributed amounts is accounted for as changes in
estimates.

#### (24) Employee share-based payment

- A. For the equity-settled share-based payment arrangements, the employee services received are measured at the fair value of the equity instruments granted at the grant date, and are recognized as compensation cost over the vesting period, with a corresponding adjustment to equity. The fair value of the equity instruments granted shall reflect the impact of market vesting conditions and vesting conditions. Compensation cost is subject to adjustment based on the service conditions that are expected to be satisfied and the estimates of the number of equity instruments that are expected to vest under the non-market vesting conditions at each balance sheet date. And ultimately, the amount of compensation cost recognized is based on the number of equity instruments that eventually vest.
- B. Treasury stocks transferred to employees:
  - (a) Restricted stocks issued to employees are measured at the fair value of the equity instruments granted at the grant date, and are recognized as compensation cost over the vesting period.
  - (b) For treasury stocks where employees have to pay to acquire those stocks, if employees resign during the vesting period, they must compensate the Group for the difference between the fair value of the equity instruments and their payments on the stocks.

#### (25) Income tax

- A. The tax expense for the period comprises current and deferred tax. Tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or items recognized directly in equity, in which cases the tax is recognized in other comprehensive income or equity.
- B. The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the balance sheet date in the countries where the Company and its subsidiaries operate and generate taxable income. Management periodically evaluates positions taken in tax returns with respect to situations in accordance with applicable tax regulations. It establishes provisions where appropriate based on the amounts expected to be paid to the tax authorities. An additional tax is levied on the unappropriated retained earnings and is recorded as income tax expense in the year when the stockholders resolve to retain the earnings.
- C. Deferred income tax is recognized, using the balance sheet liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the consolidated financial statements. However, the deferred income tax is not accounted for if it arises from initial recognition of goodwill or of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred income tax is provided on temporary differences arising on investments in subsidiaries and associates, except where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the balance sheet date and are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled.
- D. Deferred income tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilized. At each balance sheet date, unrecognized and recognized deferred income tax assets are reassessed.

- E. Current income tax assets and liabilities are offset and the net amount reported in the balance sheet when there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the asset and settle the liability simultaneously. Deferred income tax assets and liabilities are offset on the balance sheet when the entity has the legally enforceable right to offset current tax assets against current tax liabilities and they are levied by the same taxation authority on either the same entity or different entities that intend to settle on a net basis or realize the asset and settle the liability simultaneously.
- F. A deferred tax asset shall be recognized for the carryforward of unused tax credits resulting from research and development expenditures and equity investments to the extent that it is possible that future taxable profit will be available against which the unused tax credits can be utilized.

#### (26) Share capital

- A. Ordinary shares are classified as equity. Incremental costs directly attributable to the issue of new shares or stock options are shown in equity as a deduction, net of tax, from the proceeds.
- B. Where the Company repurchases the Company's equity share capital that has been issued, the consideration paid, including any directly attributable incremental costs (net of income taxes) is deducted from equity attributable to the Company's equity holders. Where such shares are subsequently reissued, the difference between their book value and any consideration received, net of any directly attributable incremental transaction costs and the related income tax effects, is included in equity attributable to the Company's equity holders.

#### (27) Dividends

Dividends are recorded in the Company's financial statements in the period in which they are resolved by the Company's shareholders. Cash dividends are recorded as liabilities.

#### (28) Revenue recognition

#### A. Sales of goods:

- (a) The Group is engaged in the research, development and sale of EPI wafers and chips of AlGaInP, AlGaAs and InGaN. Sales are recognised when control of the products has transferred, being when the products are delivered to the customer, the wholesaler has full discretion over the channel and price to sell the products, and there is no unfulfilled obligation that could affect the customer's acceptance of the products. Delivery occurs when the products have been shipped to the specific location, the risks of obsolescence and loss have been transferred to the wholesaler, and either the customer has accepted the products in accordance with the sales contract, or the Group has objective evidence that all criteria for acceptance have been satisfied.
- (b) Sales revenue is recognised on the net amount of contract price after deduction of sales discounts and allowances. The sales discounts and allowances were offered to customers based on aggregate sales over a 12-month period. Accumulated experience is used to estimate and provide for the sales discounts and allowances, using the expected value method, and revenue is only recognised to the extent that it is highly probable that a significant reversal will not occur. The estimation is subject to an assessment at each reporting date. A refund liability is recognised for expected sales discounts and allowances payable to customers in relation to sales made until the end of the reporting period. No element of financing is deemed present as the sales are made with a credit term of 90 days to 120 days, which is consistent with market practice.
- (c) The Group's obligation to provide a refund for faulty products under the standard warranty terms is recognised as a provision.
- (d) A receivable is recognised when the goods are delivered as this is the point in time that the consideration is unconditional because only the passage of time is required before the payment is due.

#### B. Revenue from licencing intellectual property

- (a) The Group entered into a contract with a customer to grant a licence of patents and intellectual property to the customer. Given the licence is distinct from other promised goods or services in the contract, the Group recognises the revenue from licencing when the licence transfer to a customer either at a point in time or over time based on the nature of the licence granted. The nature of the Group's promise in granting a licence is a promise to provide a right to access the Group's intellectual property if the Group undertakes activities that significantly affect the patents and intellectual property to which the customer has rights, the customer is affected by the Group's activities and those activities do not result in the transfer of a good or a service to the customer as they occur. The royalties are recognised as revenue on a straight-line basis throughout the licencing period. In case the abovementioned conditions are not met, the nature of the Group's promise in granting a licence is a promise to provide a right to use the Group's intellectual property and therefore the revenue is recognised when transferring the licence to a customer at a point in time.
- (b) Some contracts require a sales-based royalty in exchange for a licence of intellectual property. The Group recognises revenue when the performance obligation has been satisfied and the subsequent sale occurs.

#### C. Incremental costs of obtaining a contract

Given that the contractual period lasts less than one year, the Group recognises the incremental costs of obtaining a contract as an expense when incurred although the Group expects to recover those costs.

#### (29) Government grants

Government grants are recognized at their fair value only when there is reasonable assurance that the Group will comply with any conditions attached to the grants and the grants will be received. Government grants are recognized in profit or loss on a systematic basis over the periods in which the Group recognizes expenses for the related costs for which the grants are intended to compensate. Government grants related to property, plant and equipment are recognized as non-current liabilities and are amortized to profit or loss over the estimated useful lives of the related assets using the straight-line method.

#### (30) Business combinations

- A. The Group uses the acquisition method to account for business combinations. The consideration transferred for an acquisition is measured as the fair value of the assets transferred, liabilities incurred or assumed and equity instruments issued at the acquisition date, plus the fair value of any assets and liabilities resulting from a contingent consideration arrangement. All acquisition-related costs are expensed as incurred. Identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. For each business combination, the Group measures at the acquisition date components of non-controlling interests in the acquiree that are present ownership interests and entitle their holders to the proportionate share of the entity's net assets in the event of liquidation at either fair value or the present ownership instruments' proportionate share in the recognised amounts of the acquiree's identifiable net assets. All other non-controlling interests should be measured at the acquisition-date fair value.
- B. The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the fair value of any previous equity interest in the acquiree over the fair value of the identifiable assets acquired and the liabilities assumed is recorded as goodwill at the acquisition date. If the total of consideration transferred, non-controlling interest in the acquire recognised and the fair value of previously held equity interest in the acquiree is less than the fair value of the identifiable assets acquired and the liabilities assumed, the difference is recognised directly in profit or loss on the acquisition date.

#### (31) Operating segments

Operating segments are reported in a manner consistent with the internal reporting provided to the Chief Operating Decision-Maker. The Chief Operating Decision-Maker is responsible for allocating resources and assessing performance of the operating segments.

#### 5. <u>CRITICAL ACCOUNTING JUDGEMENTS</u>, <u>ESTIMATES AND KEY SOURCES OF</u> ASSUMPTION UNCERTAINTY

The preparation of these consolidated financial statements requires management to make critical judgements in applying the Group's accounting policies and make critical assumptions and estimates concerning future events. Assumptions and estimates may differ from the actual results and are continually evaluated and adjusted based on historical experience and other factors. Such assumptions and estimates have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year; and the related information is addressed below:

(1) <u>Critical judgments in applying the Group's accounting policies</u> None.

#### (2) Critical accounting estimates and assumptions

The Group makes estimates and assumptions based on the expectation of future events that are believed to be reasonable under the circumstances at the end of the reporting period. The resulting accounting estimates might be different from the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are addressed below:

#### A. Impairment valuation of goodwill, property, plant and equipment

In assessing assets impairment valuation, the Group estimates useful lives of assets and possible income and expenses in the future based on the Group's subjective judgement, any changes in economic condition and strategy of the Group will affect the recoverable amount, please refer to Note 6(11).

As of December 31, 2019, the Group recognised impaired property, plant and equipment of \$20,577,106 and goodwill of \$6,324,659.

#### B. Realizability of deferred income tax assets

Deferred income tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the deductible temporary differences can be utilized. Assessment of the realizability of deferred income tax assets involves critical accounting judgments and estimates of the management, including the assumptions of expected future sales revenue growth rate and profit rate, available tax credits, tax planning, and etc. Any variations in global economic environment, industrial environment, and laws and regulations might cause material adjustments to deferred income tax assets.

As of December 31, 2019, the Group recognized deferred income tax assets amounting to \$3,944,874.

#### C. Evaluation of inventories

As inventories are stated at the lower of cost and net realizable value, the Group must determine the net realizable value of inventories on balance sheet date using judgements and estimates. Due to the rapid technology innovation, the Group evaluates the amounts of obsolete inventories or inventories without market selling value on balance sheet date, and writes down the cost of inventories to the net realizable value. Such an evaluation of inventories is principally based on the demand for the products within the specified period in the future. Therefore, there might be material changes to the evaluation.

As of December 31, 2019, the carrying amount of inventories was \$3,252,303.

D. Financial assets—fair value measurement of unlisted stocks without active market

The fair value of unlisted stocks held by the Group that are not traded in an active market is
determined by considering those companies' recent funding raising activities and technical

development status, fair value assessment of other companies of the same type, market conditions and other economic indicators existing on balance sheet date. Any changes in these judgements and estimates will impact the fair value measurement of these unlisted stocks. Please refer to Note 12(3) for the financial instruments fair value information.

As of December 31, 2019, the carrying amount of unlisted stocks was \$3,465,868.

#### 6. DETAILS OF SIGNIFICANT ACCOUNTS

#### (1) Cash and cash equivalents

	Dece	mber 31, 2019	December 31, 2018		
Cash on hand and petty cash	\$	1,409	\$	559	
Checking accounts and demand deposits		2,232,459		1,571,952	
Time deposits		2,642,491		2,929,936	
Bonds sold under repurchase agreement		375,004		1,030,062	
Cash on transit		1,460		-	
	\$	5,252,823	\$	5,532,509	

The Group transacts with a variety of financial institutions all with high credit quality to disperse credit risk, so it expects that the probability of counterparty default is remote.

(2) Financial assets at fair value through profit or loss

Items	December 31, 2019		December 31, 2018	
Current items:				
Financial assets mandatorily measured at				
fair value through profit or loss				
Beneficiary certificates	\$	42,300	\$	366,196
Listed stocks		1,285,100		671,789
Emerging stocks		1,775		9,248
		1,329,175		1,047,233
Valuation adjustment	(	143,960)	(	320,827)
•	,	1,185,215		726,406
Non-current items:				
Financial assets mandatorily measured at				
fair value through profit or loss				
Unlisted stocks		342,178		333,727
Valuation adjustments	(	184,416)	(	333,727)
-	<u></u>	157,762	-	-
	\$	1,342,977	\$	726,406

A. The net gain recognized by the Company amounted to \$319,276 and \$12,382 for the years ended December 31, 2019 and 2018, respectively.

B. Information on credit risk of financial assets at fair value through profit or loss is provided in Note 12(2).

(3) Financial assets at fair value through other comprehensive income

Items		December 31, 2019		mber 31, 2018
Non-current items:				
Equity instruments				
Listed stocks	\$	724,909	\$	724,909
Emerging stocks		40,872		40,872
Unlisted stocks		3,660,396		3,619,815
		4,426,177		4,385,596
Valuation adjustment	(	785,567)	(	1,120,471)
- -	\$	3,640,610	\$	3,265,125

- A. Aiming to satisfy the capital expenditure needs, the Group sold \$0 and \$3,051 of equity securities investments at fair value and resulted in cumulative gains on disposal amounting to \$0 and \$1,071 during the years ended December 31, 2019 and 2018, respectively.
- B. Amounts recognized in profit or loss and other comprehensive income in relation to the financial assets at fair value through other comprehensive income are listed below:

Equity instruments at fair value through other	Year ended		Y	ear ended		
comprehensive income	Decer	December 31, 2019		December 31, 2019 December 31, 2019		nber 31, 2018
Fair value change recognised in other						
comprehensive income	\$	334,904	(\$	674,074)		
Cumulative losses reclassified to retained						
earnings due to derecognition	\$		(\$	1,071)		
Held at end of year	\$	29,330	\$	26,709		

- C. As at December 31 2019 and 2018, without taking into account any collateral held or other credit enhancements, the maximum exposure to credit risk in respect of the amount that best represents the financial assets at fair value through other comprehensive income held by the Group was \$3,640,610 and \$3,265,125, respectively.
- D. Information relating to credit risk of financial assets at fair value through other comprehensive income is provided in Note 12(2) and (3).

#### (4) Notes and accounts receivable

	Dece	mber 31, 2019	December 31, 2018	
Notes receivable	\$	2,313,351	\$	1,495,653
Less: Allowance for uncollectible accounts		<u>-</u>		_
	\$	2,313,351	\$	1,495,653
Accounts receivable	\$	6,716,270	\$	7,626,772
Less: Allowance for uncollectible accounts	(	10,672)	(	42,838)
	\$	6,705,598	\$	7,583,934

A. The ageing analysis of accounts receivable and notes receivable that were past due but not impaired is as follows:

	December 31, 2019			December 31, 2018				
	Acco	unts receivable	Not	es receivable	Accou	unts receivable	Not	es receivable
Not past due	\$	5,940,844	\$	2,313,351	\$	6,415,993	\$	1,432,793
Up to 30 days		417,581		-		407,801		62,860
31 to 90 days		251,526		-		646,500		-
91 to 180 days		31,575		-		136,651		-
Over 180 days		74,744		<u>-</u>		19,827		
·	\$	6,716,270	\$	2,313,351	\$	7,626,772	\$	1,495,653

The above ageing analysis was based on past due date.

- B. As of December 31, 2019 and 2018, the Group had outstanding discounted notes receivable amounting to \$2,087,234 and \$3,349,498. The Group has no payment obligations when the drawers of the notes refuse to pay for the notes at maturity. Those discounted notes receivable were presented as a deduction item to notes receivable. Those discounted notes receivable were deducted from notes receivable directly.
- C. Details of the Group's notes receivable pledged to others as collateral are provided in Note 8.
- D. The Group holds collateral including bank deposits, commercial papers, financial assets as well as machinery and equipment as security for accounts receivable. The fair value of the collateral held cannot be reasonably estimated by the Group since it is impracticable.
- E. As at December 31 2019 and 2018, without taking into account any collateral held or other credit enhancements, the maximum exposure to credit risk in respect of the amount that best represents the notes receivable held by the Company was \$2,313,351 and \$1,495,653; the maximum exposure to credit risk in respect of the amount that best represents the account receivables held by the Company was \$6,705,598 and \$7,583,934.
- F. Information on credit risk of accounts receivable and notes receivable is provided in Note 12(2).

#### (5) Inventories

/ <del></del>	December 31, 2019						
		Cost		Allowance for valuation loss		Book value	
Raw materials	\$	836,777	(\$	69,171)	\$	767,606	
Work in progress		1,414,292	(	275,074)		1,139,218	
Finished goods		1,797,744	(	452,265)		1,345,479	
· ·	\$	4,048,813	(\$	796,510)	\$	3,252,303	
	December 31, 2018						
	Allowance for						
		Cost		valuation loss		Book value	
Raw materials	\$	1,199,529	(\$	53,495)	\$	1,146,034	
Work in progress		1,640,894	(	255,534)		1,385,360	
Finished goods		2,791,392	(	617,595)		2,173,797	
-	\$	5,631,815	(\$	926,624)	\$	4,705,191	

Expense and loss incurred on inventories for the years ended December 31, 2019 and 2018 were as follows:

	Dec	Year ended December 31, 2019		Year ended December 31, 2018	
Cost of goods sold	\$	14,725,377	\$	16,491,389	
Effect of recoverable amounts written off	(	27,840)	(	306,282)	
Scrap loss		298,046		268,097	
(Gain on reversal of decline)loss on decline market value	in (	162,563)		316,079	
Loss on idle capacity		1,560,179		882,458	
	\$	16,393,199	\$	17,651,741	

A decrease in costs of sales was recognised as a result of reversal of net realisable value from sale of obsolete inventories.

#### (6) Investments accounted for using the equity method

	December 31, 2019		December 31, 2018	
Associates:				
Nan Ya Photonics Incorporation	\$	486,534	\$	419,681
Tekcore Co., Ltd.		37,788		62,978
TE Opto Corporation		45,524		43,556
Country Lighting (BVI) Co., Ltd.		91,723		93,996
ProLight Opto Technology Corporation		-		367,309
LEDOULUX Sp.Zo.O		14,051		15,070
Interelight Optotech (Hong Kong) Ltd.		12,705		13,411
ES-LEDRU LLC.		2,231		2,037
LEDAZ Co., Ltd.		55,345		99,670
	\$	745,901	\$	1,117,708

#### A. The basic information of the associates that are material to the Group is as follows:

		Sharehole	ding ratio		
	Principal place	December 31,	December 31,	Nature of	Methods of
Company name	of business	2019	2018	relationship	measurement
Nan Ya Photonics Incorporation	Taiwan	43.26%	43.26%	Associates	Equity method
ProLight Opto Technology corporation	Taiwan	Note 1	42.64%	Note 1	Equity method
KAISTAR Lighting (Xiamen) Co., Ltd.	Mainland China	Note 2	Note 2	Note 2	Note 2

Note 1 : Information is provided in Note (6)B(1) Note 2 :Information is provided in Note(6) B(j) B. The summarized financial information of the associates that are material to the Group is as follows:

(	(a)	Ral	ance	sheet
١,	a	Dan	ance	SHOOL

	Nan Ya Photonics Incorporation			
	December 31, 2019	December 31, 2018		
Current assets	\$ 1,073,694	\$ 929,990		
Non-current assets	160,550	130,111		
Current liabilities	( 146,214	1) ( 128,743)		
Non-current liabilities	(9,48)	1) (9,520)		
Total net assets	\$ 1,078,549	921,838		
Share in associate's net assets	\$ 465,650	398,797		
Goodwill	20,884	20,884		
Carrying amount of the associate	\$ 486,534	419,681		
	Prolight Opto Technology Corporation			
	December 31, 2019	December 31, 2018		
Current assets	\$	527,783		
Non-current assets		521,627		
Current liabilities		- ( 185,033)		
Non-current liabilities		- ( 105,323)		
Total net assets	\$	\$ 759,054		
Share in associate's net assets	\$	- \$ 326,336		
Goodwill		40,973		
Carrying amount of the associate	\$	\$ 367,309		
(b) Statement of comprehensive income				
	Nan Ya Photonics Incorporation			
	Year ended	Year ended		
	December 31, 2019	_		
Revenue	\$ 715,223	_		
Income for the period from continuing operations	\$ 98,098	3 \$ 90,519		
Other comprehensive income, net of tax	122,470	155,488		
Total comprehensive income	\$ 220,568	\$ 246,007		
Dividends received from associates	\$ 27,359	\$ -		

	Prolight Opto Technology Corporation			
	Year ended December 31, 2019		Year ended December 31, 2018	
Revenue	\$	134,787	\$	612,433
Loss for the period from continuing operations	(\$	5,829)	(\$	40,088)
Other comprehensive loss, net of tax			(	170)
Total comprehensive loss	(\$	5,829)	(\$	40,258)
Dividends received from associates	\$		\$	
	KATSTAR Lighting(Xiamen) Co., Ltd.			
	Year ended Year ended			Year ended
	Decei	mber 31, 2019	Dece	ember 31, 2018
Revenue	\$	<u>-</u>	\$	2,938,630
Loss for the period from continuing operations	\$	-	(\$	31,106)
Other comprehensive income, net of tax		<u>-</u>		_
Total comprehensive loss	\$		(\$	31,106)
Dividends received from associates	\$	-	\$	-

(c) The carrying amount of the Group's interests in all individually immaterial associates and the Group's share of the operating results are summarized as follows:

As of December 31, 2019 and 2018, the carrying amount of the Group's individually immaterial associates amounted to \$259,367 and \$330,718, respectively.

	Year ended December 31, 2019		Year ended December 31, 2018	
Loss (income) for the year from continuing operations	(\$	106,092)	\$	31,701
Other comprehensive loss	(	63)	(	435)
Total comprehensive (loss) income	(\$	106,155)	\$	31,266

- (d) The investment (loss) income from equity method investees for the years ended December 31, 2019 and 2018 amounted to (\$21,383) and \$24,416, respectively.
- (e) The other comprehensive income from equity method investees for the years ended December 31, 2019 and 2018 amounted to \$47,495 and \$122,433, respectively.
- (f) The Group's investment in Tekcore Co., Ltd. has quoted market price. The fair value of Tekcore Co., Ltd. as of December 31, 2019 and 2018 was \$100,024 and \$117,437, respectively.
- (g) The Group disposed all shares of Very Optoelectronic(HUI ZHOU)Co., Ltd. on March 14, 2018 and recognised loss on disposal of investments amounting to \$20,091.
- (h) The Group disposed all its shares of Tops Electrical Technology Co., Ltd. on March 29, 2018 and recognised loss on disposal of investments amounting to \$898.
- (i) The Group lost significant influence over PlayNitride Inc. as the shares of PlayNitride Inc. owned by the Group were less than 20% on March 6, 2018, therefore, the Group reclassified it into financial assets at fair value through other comprehensive income and recognised gains on disposal of investments amounting to \$80,988 in accordance with IFRSs.

- (j) The Group lost significant influence over KAISTAR Lighting (Xiamen) Co., Ltd. as its shares owned by the Group were less than 20% on April 26, 2018. Therefore, the Group reclassified it into financial asset at fair value through other comprehensive income and recognised gain on disposal of investment amounting to \$288,956 in accordance with IFRSs.
- (k) The Group disposed all its shares of Cosmoled Lighting Limited on June 25, 2018 and recognized loss on disposal of investments amounting to \$36,118.
- (1) On April 11, 2019, the Group participated in the private placement raised by Prolight Opto Technology Corporation and had control over Prolight Opto Technology Corporation. The Group recognised loss on disposal of investment amounting to \$66,847, and details of acquired assets and assumed liabilities are provided in Note 6(33).

Construction

#### (7) Property, plant and equipment

							in progress and	
		Buildings and		Office	Leasehold		equipment to	
	Land	structures	Machinery	equipment	improvements	Others	be inspected	Total
At January 1, 2019								
Cost Accumulated	\$ 124,661	\$ 15,723,057	\$ 42,314,211	\$ 383,665	\$ 140,295	\$ 432,717	\$ 2,359,617	\$ 61,478,223
depreciation and		( 0.020.526	. ( 20.217.006)	( 201200)	( 02.210)	( 200.226)		/ 20 0 12 25 A
impairment	-	8,039,526		<del></del>		<u> </u>		(39,042,274)
	\$ 124,661	\$ 7,683,531	\$ 11,997,115	\$ 99,465	\$ 47,079	\$ 124,481	\$ 2,359,617	\$ 22,435,949
<u>2019</u>								
Opening net book amount at January 1	\$ 124,661	\$ 7,683,531	\$ 11,997,115	\$ 99,465	\$ 47,079	\$ 124,481	\$ 2,359,617	\$ 22,435,949
Additions	-	18,398	237,501	3,654	839	5,333	2,223,999	2,489,724
Transfer	-	675,153	2,331,506	64,491	23,866	31,837	( 3,126,853)	-
Acquired from								
business	387,336	*	*	1,252	-	59,742	-	743,178
Disposals	-	14,306	) ( 163,332)	( 28)	-	( 3)	( 8,959)	( 186,628)
Reclassifications	138,524	242,895	( 5,655)	929	-	-	( 98,797)	277,896
Disaster loss	-	968,343	) ( 3,666,167)	( 36,488)	( 17,454)	( 63,530)	-	( 4,751,982)
Impairment loss Net exchange	-	37,799	) ( 154,773)	( 2)	( 15,126)	( 222)	- (	( 207,922)
differences Closing net book		58,809	) (139,738)	(3,338)	(684)	(4,067)	(16,473)	(223,109)
amount at December								
31	\$ 650,521	\$ 7,703,164	\$ 10,568,861	\$ 129,935	\$ 38,520	\$ 153,571	\$ 1,332,534	\$ 20,577,106
At December 31, 2019								
Cost Accumulated	\$ 650,521	\$ 16,213,192	\$ 41,452,304	\$ 402,533	\$ 161,373	\$ 591,882	\$ 1,332,534	\$ 60,804,339
depreciation and								
impairment		8,510,028	) (30,883,443)	(272,598)	(122,853)	(438,311)		(40,227,233)
	\$ 650,521	\$ 7,703,164	\$ 10,568,861	\$ 129,935	\$ 38,520	\$ 153,571	\$ 1,332,534	\$ 20,577,106

	Land	Buildings and structures	Machinery	Office equipment	Leasehold improvements	in e	Construction progress and quipment to pe inspected
At January 1, 2018							
Cost Accumulated depreciation and	\$ 124,661	\$ 15,131,618	\$ 40,882,327	\$ 349,727	\$ 178,294	\$ 438,230 \$	2,526,031 \$ 59,630,888
impairment	-	( 7,174,425	27,432,634)	( 297,562)	( 102,100) (	269,240) (	6,046) ( 35,282,007)
•	\$ 124,661	\$ 7,957,193	\$ 13,449,693	\$ 52,165	\$ 76,194	\$ 168,990 \$	2,519,985 \$ 24,348,881
2018		-					
Opening net book	\$ 124,661	\$ 7,957,193	\$ 13,449,693	\$ 52,165	\$ 76,194	\$ 168,990 \$	2,519,985 \$ 24,348,881
amount at January 1							
Additions	-	16,067	235,886	3,076	571	408	3,350,860 3,606,868
Transfer	-	828,065	2,607,702	67,978	( 10,331)	14,875 (	3,508,289)
Disposals Reclassified to non-	-	( 48,349)	122,492)	( 251)	( 177)	2,213	- ( 169,056)
current assets held for							
sale	-		( 99,733)	-	-	- (	1,571) ( 101,304)
Reclassifications	-	( 408)	,,	-	- (		13,460 148,555
Depreciation charge	-	( ,,,,,,,			( 18,950) (	58,677)	- ( 4,758,265)
Impairment loss	-	( 117,327	384,148)	-	-	-	- ( 501,475)
differences		(36,836	82,518)	(1,080)	(228) (	2,765) (	14,828) (138,255)
Closing net book amount at December 31	\$ 124,661	\$ 7,683,531	\$ 11,997,115	\$ 99,465	\$ 47,079	\$ 124,481 \$	2,359,617 \$ 22,435,949
At December 31, 2018							
Cost Accumulated	\$ 124,661	\$ 15,723,057	\$ 42,314,211	\$ 383,665	\$ 140,295	\$ 432,717 \$	2,359,617 \$ 61,478,223
depreciation and							
impairment		(8,039,526)	·	(284,200)	(93,216) (	308,236)	- (39,042,274)
	\$ 124,661	\$ 7,683,531	\$ 11,997,115	\$ 99,465	\$ 47,079	\$ 124,481 \$	2,359,617 \$ 22,435,949

Information about the property, plant and equipment that were pledged to others as collaterals is provided in Note 8.

#### (8) <u>Leasing arrangements—lessee</u>

# Effective 2019

- A. The Group leases various assets including land, buildings, machinery and equipment, transportation equipment and office equipment. Rental contracts are typically made for periods of 2 to 50 years. Lease terms are negotiated on an individual basis and contain a wide range of different terms and conditions. The lease agreements do not impose covenants, but leased assets may not be used as security for borrowing purposes.
- B. Short-term leases with a lease term of 12 months or less comprise buildings, transportation equipment and office equipment. Low-value assets comprise office equipment.

C. The carrying amount of right-of-use assets and the depreciation charge are as follows:

	Decem	ber 31, 2019			
	Carry	Carrying amount			
Land	\$	1,202,185			
Land use right		233,294			
Buildings		49,588			
Machinery and equipment		45,659			
Transportation equipment		6,071			
Office equipment		27,646			
	\$	1,564,443			
	Year ended December				
	3	1, 2019			
	Deprec	reciation charge			
Land	\$	51,385			
Buildings		16,215			
Machinery and equipment		21,117			
Transportation equipment		6,595			
Office equipment		9,520			
	\$	104,832			

D. For the year ended December 31, 2019, the additions to right-of-use assets was \$58,592.

E. The information on profit and loss accounts relating to lease contracts is as follows:

	Decem	ber 31, 2019
Items affecting profit or loss		
Interest expense on lease liabilities	\$	27,992
Expense on short-term lease contracts		20,102
Expense on leases of low-value assets		3,287

F. For the year ended December 31, 2019, the Group's total cash outflow for leases was \$165,358.

(9) <u>Intangible assets</u>			~ •		
	Patents	Goodwill	Software	Others	Total
At January 1, 2019		A		0.7.00.	
Cost	\$ 2,396,119	\$ 6,324,659	\$ 356,717 \$	95,092 \$	9,172,587
Accumulated amortisation and	( 1.175 (02)		( 224.072) (	97.004) (	1 400 (50)
impairment	(1,175,693)		(224,972) (	87,994) (	1,488,659)
	\$ 1,220,426	\$ 6,324,659	<u>\$ 131,745</u> <u>\$</u>	7,098 \$	7,683,928
2019					
Opening net book amount as at	Ф. 1.220.426	Ф. 6.224.6 <b>2</b> 0	Ф. 121 <i>7</i> 45 Ф	<b>7</b> .000 A	<b>7</b> (02 020
January 1,	\$ 1,220,426	\$ 6,324,659	\$ 131,745 \$	*	7,683,928
Additions – acquired separately	6,436	-	65,137	1,652	73,225
Additions – acquired through					
business combinations	153	-	-	331	484
Disposals	( 4,189)	-	-	- (	4,189)
Reclassifications	8,482	-	3,520	2,400	14,402
Amortisation charge	( 193,543)	-	( 63,453) (	3,473) (	260,469)
Net exchange differences	(4,470)		(1,113) _		5,583)
Closing net book amount as at					
December 31,	\$ 1,033,295	\$ 6,324,659	\$ 135,836 \$	8,008 \$	7,501,798
At December 31, 2019					
Cost	\$ 2,406,242	\$ 6,324,659	\$ 422,203 \$	99,476 \$	9,252,580
Accumulated amortisation and					, ,
impairment	(1,372,947)	<u> </u>	(286,367) (	91,468) (	1,750,782)
	\$ 1,033,295	\$ 6,324,659	\$ 135,836 \$	8,008 \$	7,501,798
	Patents	Goodwill	Software	Others	Total
At January 1, 2018					
Cost	\$ 2,351,991	\$ 6,324,659	\$ 297,857 \$	92,391 \$	9,066,898
Accumulated amortisation and	\$ <b>-</b> ,001,331	\$ 0,02.,000	\$ <b>2</b> >7,007 \$	> <b>=</b> ,e>1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
impairment	( 966,045)	-	( 168,754) (	85,137) (	1,219,936)
•	\$ 1,385,946	\$ 6,324,659	\$ 129,103 \$		7,846,962
2018	<del>+ 1,000,000</del>	<del>+,</del>	<del>*,</del> <del>*</del>	,,	,,,,,,,,,,,
Opening net book amount					
as at January 1	\$ 1,385,946	\$ 6,324,659	\$ 129,103 \$	7,254 \$	7,846,962
Additions—acquired separately	33,030	-	59,400	2,700	95,130
Disposals	-	_	( 141)	- (	141)
Reclassifications	6,487	_	955	_	7,442
Amortisation charge	( 207,370)	- -	( 57,316) (	2,856) (	267,542)
Net exchange differences	2,333	_	( 256)	2,030) (	2,077
Closing net book amount	2,333		(	<u> </u>	2,077
as at December 31,	\$ 1,220,426	\$ 6,324,659	\$ 131,745 \$	7,098 \$	7,683,928
	φ 1,220,420	φ 0,52 <del>4</del> ,039	<u>\$ 131,745</u> <u>\$</u>	7,090 \$	1,003,928
At December 31, 2018	ф <b>2.2</b> 06.110	e ( 224 (72	Ф 256 <b>7</b> 17 Ф	05.002	0.170.505
Cost Accumulated amortisation and	\$ 2,396,119	\$ 6,324,659	\$ 356,717 \$	95,092 \$	9,172,587
	( 1 175 602)		( 224.072) (	97.004) (	1 /00 (50)
impairment	( <u>1,175,693</u> )		(224,972) (	87,994) (	1,488,659)
	\$ 1,220,426	\$ 6,324,659	\$ 131,745 \$	7,098 \$	7,683,928

	Year ended December 31, 2019		Y	ear ended
			December 31, 2018	
Operating costs	\$	117,057	\$	114,510
Selling expenses		4,576		7,283
Administrative expenses		58,766		58,310
Research and development expenses		80,070		87,439
	\$	260,469	\$	267,542

# (10) <u>Long-term prepaid rents (shown under "Other non-current assets")</u> Effective 2018

Year ended

December 31, 2018

\$ 248,530

Land use right

In December 2006, and May, June and July 2010, the Group signed a land use right contract with Xiamen Municipal Bureau of Land, Resources And Housing Administration, Yangzhou National Territory Resources Bureau, Changzhou Land and Resource Bureau and Jining Municipal Bureau of State Land for use of the land in Xiamen Torch High-tech Industrial Development Zone of the People's Republic of China, Yangzhou Economic & Technological Development Zone, Wujin, Changzhou, Jiangsu, China and Jining National High-tech Industrial Development Zone with term of 50 years. All rentals had been paid on the contract date. The Group recognised rental expenses of \$6,553 for the year ended December 31, 2018.

# (11) Impairment of non-financial assets

A. During the years ended December 31, 2019 and 2018, the reallocation of production lines resulted in impairment of the Group's property, plant and equipment and non-current assets classified as held for sale. The Group wrote down the carrying amount of the asset based on the recoverable amount and recognised accordingly an impairment loss of \$209,803 and \$659,774, respectively. The recoverable amount is the property's fair value less costs of disposal. The fair value is classified as a level 3 fair value. The impairment loss is detailed below:

	Year ended December 31, 2019		Year ended December 31, 201		
	Recognise	ed in profit or loss	Recognised in profit or loss		
Impairment loss -	\$	37,799	\$	117,327	
buildings and structures					
Impairment loss - machinery		154,773		384,148	
Impairment loss - non-					
current assets held for sale		1,881		158,299	
Impairment loss -					
office equipment		2		-	
Impairment loss -					
Leasehold improvements		15,126		-	
Impairment loss -					
other equipment		222		_	
	\$	209,803	\$	659,774	

B. Goodwill is allocated to the Group's cash-generating units identified according to operating segment. The recoverable amount of all cash-generating units has been determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by the management covering a five-year period. Cash flows beyond the five-year period are extrapolated using the estimated growth rates stated below.

The recoverable amount of all cash-generating units calculated using the value-in-use exceeded their carrying amount, therefore goodwill was not impaired. The key assumptions used for value-in-use calculations are as follows:

	Year ended December 31, 2019			Year ended December 31, 2018			
	1st year	2∼5 years	After 6th year	1st year	2~5 years	After 6th year	
Revenue growth	33.55%	6.82%~	0%	26.63%	9.87%~	0%	
rate	33.33/0	14.7%	070	20.0370	30.11%	070	
Gross margin	17.59%	28.4%~	34.80%	15.56%	23.0%~	26.80%	
rate	17.5570	34.9%	34.0070	13.3070	26.8%	20.0070	
Discount rate	11.39%	11.39%	11.39%	14.20%	14.20%	14.20%	

- (a) Revenue growth rate: Estimation refers to relevant market information and relevant operating and sales plan.
- (b) Gross margin rate: Estimation refers to historical data and relevant operating and sales plan.
- (c) Discount rate: The rate before tax and reflecting specific risk of relevant operating segment.

# (12) Non-current assets held for sale

	December 31, 2019			December 31, 2018		
Property, plant and equipment	\$	1,086	\$	390,042		
(13) Short-term borrowings		_		_		
	December 31, 2019		December 31, 2018			
Bank borrowings						
Unsecurred borrowings	\$	1,683,783	\$	1,874,876		
Interest rate range-NTD		1.02%~1.11%		0.90%		
Interest rate range-foreign currency		3.92%~4.88%		3.06%~5.22%		

As of December 31, 2019 and 2018, the Group has endorsements to Episky Corporation (Xiamen) Ltd., Jiangsu Canyang Optoelectronics Ltd., Ecoled Venture Co., Limited and Yen-Rich Opto (Hong Kong) Limited of \$3,757,860 and \$3,270,624, respectively.

#### (14) Short-term notes and bills payable

	December 31, 2019					
	Rate (%)	Amount	Name of bank	Collaterals		
Payables for bankers' acceptance	-	\$ 346,318	BANK OF COMMUNICATIONS	Note 8		
		Dec	ember 31, 2018			
	Rate (%)	Amount	Name of bank	Collaterals		
Payables for bankers' acceptance	-	\$ 357,717	BANK OF COMMUNICATIONS	Note 8		

#### (15) Other payables

(15) Other payables Item	ıs	Decem	ber 31, 2019	Decer	nber 31, 2018
Payables on wages, salarie	Payables on wages, salaries and bonus			\$	599,908
Compensation due to emp	loyees, directors				
and supervisors	and supervisors				69,516
Payables on personnel exp	ense		184,760		206,409
Payable on machinery and	equipment		545,544		1,153,185
Payables on consumable g	oods and equipment				
repair expense			304,019		579,919
Payables on processing fee	es		353,618		423,397
Payables on reticle expens	e		19,708		28,043
Payables on gas expense			69,609		76,542
Payables on insurance exp	ense		4,106		7,752
Payable on intangible asse	ts		55,993		47,159
Others			403,710		628,273
		\$	2,503,852	\$	3,820,103
(16) <u>Long-term borrowings</u>					
		ng period an	nd		
Type of borrowings	repay	ment term		Dece	mber 31, 2019
Bank borrowings					
Secured borrowings	Before October 29, 20			\$	99,808
Unsecured borrowings	November 2, 2021 Re		at maturity		500,000
Unsecured borrowings	Before November 5,				390,000
Secured borrowings	Before December 12,	2024			138,750
Lagge Current parties				(	1,128,558 117,533)
Less: Current portion				\$	1,011,025
Interest rate range				Ψ	1.20%~1.43%
interest rate range	Borrowir	ng period an	nd		1.20/0 1.13/0
Type of borrowings		ment term	ild	Dece	mber 31, 2018
Bank borrowings		inchi term			111001 31, 2010
Secured borrowings	Before October 29, 20	022		\$	137,971
Unsecured borrowings	Before December 30,			Ф	127,143
Unsecured borrowings	November 2, 2021 Re		at maturity		10,000
Unsecured borrowings	November 27, 2020 F				300,000
g and a second		-r-J	, J		575,114
Less: Current portion				(	165,306)
•				\$	409,808
Interest rate range					1.00%~1.39%

The Company, Formosa Inc. and Jiangsu Canyang Optoelectronics Ltd have signed a syndicated contract with 7 financial institutions including Land Bank of Taiwan. The lead bank is Land Bank of Taiwan. The credit granting period is 3 years from the first drawing date, May 30, 2016. Before the maturity, the granting period can be extended for 2 years upon application. The loan has been paid off in advance and the credit line has been cancelled on May 30, 2018.

A. Credit lines are as follows:

- (a) Tranche (A): Credit line is \$4,000,000. Details of Tranche A are as follows:
  - i Tranche (A-1): To redeem the 2nd overseas convertible bond and the former facility of Tranche (B) of Formosa Inc., the credit line is \$1,500,000 which can be drawn separately but cannot be redrawn.
  - ii Tranche (A-2): Funds for fulfilling the Company's mid-term operational needs. Credit line is \$2,500,000 and can be redrawn.
- (b) Tranche (B): Credit line is \$1,600,000. Details of Tranche B are as follows:
  - i Tranche (B-1): To repay former financial debt of Formosa Inc., the credit line is \$600,000 and cannot be redrawn.
  - ii Tranche (B-2): To fulfil midterm operating capital, the credit line is \$1,000,000 and can be redrawn.
- (c) The balance of Tranche (A) and Tranche (B) cannot exceed the total credit line.
- (d) Tranche (C): Credit line is US\$19,000 thousand. Details of Tranche C are as follows: Tranche (C-1): To repay financial debt of Jiangsu Canyang Optoelectronics Ltd., the credit line is USD 19,000 thousand and can be drawn at lump sum but cannot be redrawn.
- B. The Company has promised to maintain the following financial ratios and conditions that are based on the audited consolidated financial statements within the credit granting period (if violating following financial rates, annual rates of 0.125% should be added in accordance with contract):
  - (a) Current ratio more than or equal to 100%;
  - (b) Debt ratio less or equal to 100%;
  - (c) Times interest earned ratio no less than 400%;
  - (d) Tangible net worth (shareholders' equity intangible assets) not less than \$45,000,000 (inclusive).
- C. Due to the business combination of the Group and Formosa Inc. on September 29, 2016, the aforementioned Tranche (B), Tranche (B-1) and Tranche (B-2) are not applicable to the contract.
- D. The Company's financial commitments to borrowing from Taipei Fubon Commercial Bank Co., Ltd:

Financial commitments (after the first drawn, following financial ratios shall maintain in the duration):

- i. Current ratio shall exceed (including) 100%.
- ii. Interest coverage ratio shall exceed (including) 4.
- iii. Debt ratio shall below (including) 100%.
- iv. Tangible net assets: shall exceed NTD 45 billion.

Aforementioned ratios of financial commitment were calculated based on the audited annual consolidated financial statements which will be reviewed once a year. If the financial ratios were violated the restriction, the interest rate plus 0.15%. If the financial ratio were not improved in the continuous 2 periods, the facility shall be examined.

#### (17) Pensions

A. (a) The Company has a defined benefit pension plans in accordance with the Labor Standards Law, covering all regular employees for services provided prior to July 1, 2005, and employees who choose to remain in the defined benefit pension plan subsequent to the enforcement of the Labor Pension Act on July 1, 2005. Under the defined benefit pension plan, employees are entitled to two base points for every year of service for the first 15 years and one base point for each additional year thereafter, up to a maximum of 45 base points. The pension payment to employees is computed based on years of service and average salaries or wages of the last six months prior to approved retirement. The Company contributes an amount equal to 2% of salaries and wages paid each month to a pension fund. The pension fund is administered by a pension fund monitoring committee (the "Committee") and

deposited under the Committee's name in the Bank of Taiwan.

Also, the Company would assess the balance in the aforementioned labor pension reserve account by the end of December 31, every year. If the account balance is insufficient to pay the pension calculated by the aforementioned method, to the employees expected to be qualified for retirement next year, the Company will make contributions to cover the deficit by next March.

(b) The amounts recognized in the balance sheet are determined as follows:

	,	]	December 3	1, 2019	Dece	mbe	r 31, 2018
	Present value of defined benefit of	oligations (\$		360,068	3) (\$		357,293)
	Fair value of plan assets	2 (1		280,240	/		257,354
	Net defined benefit liability	(\$		79,828			99,939)
(c	) Movements in net defined benefit	<u></u>	e as follows:		<u>₹</u>		
(0	) ivio veinents in het dermed benefit	Present value			r value	N	let defined
			oligations		in assets		nefit liability
	2019		8				<u> </u>
	Balance at January 1	(\$	357,293)	\$	257,354	(\$	99,939)
	Current service cost	(	1,424)		_	(	1,424)
	Interest (expense) income	Ì	3,566)		2,628	Ì	938)
	Past service cost	`	5,159		-	`	5,159
	Benefits paid		566	(	566)		-
	•	(	356,558)	'	259,416	(	97,142)
	Remeasurements:		•				
	Return on plan assets (excluding						
	amounts included in interest		-		8,883		8,883
	income or expense)						
	Change in demographic assumptions	(	3,304)		-	(	3,304)
	Change in financial assumptions	(	12,511)		-	(	12,511)
	Experience adjustments		12,305		_		12,305
		(	3,510)		8,883		5,373
	Pension fund contribution		-		11,941		11,941
	Balance at December 31	(\$	360,068)	\$	280,240	(\$	79,828)
		Present value	e of defined	Fair	r value	N	let defined
			oligations	of pla	ın assets		nefit liability
	2018						<u>.                                    </u>
	Balance at January 1	(\$	380,000)	\$	239,145	(\$	140,855)
	Current service cost	(	1,750)		-	(	1,750)
	Interest (expense) income	Ì	4,738)		3,064	(	1,674)
	Benefits paid		3,783	(	3,783)	•	-
	-	(	382,705)	'	238,426	(	144,279)
	Remeasurements:						
	Return on plan assets (excluding						
	amounts included in interest		-		6,411		6,411
	income or expense)						
	Change in demographic assumptions	(	105)		-	(	105)
	Change in financial assumptions	(	13,014)		-	(	13,014)
	Experience adjustments		38,531				38,531
			25,412		6,411		31,823
	Pension fund contribution				12,517		12,517
	Balance at December 31	(\$	357,293)	\$	257,354	(\$	99,939)
		<del></del>					

- (d) The Bank of Taiwan was commissioned to manage the Fund of the Company's and domestic subsidiaries' defined benefit pension plan in accordance with the Fund's annual investment and utilisation plan and the "Regulations for Revenues, Expenditures, Safeguard and Utilisation of the Labor Retirement Fund" (Article 6: The scope of utilisation for the Fund includes deposit in domestic or foreign financial institutions, investment in domestic or foreign listed, over-the-counter, or private placement equity securities, investment in domestic or foreign real estate securitization products, etc.). With regard to the utilisation of the Fund, its minimum earnings in the annual distributions on the final financial statements shall be no less than the earnings attainable from the amounts accrued from two-year time deposits with the interest rates offered by local banks. If the earnings is less than aforementioned rates, government shall make payment for the deficit after being authorized by the Regulator. The Company has no right to participate in managing and operating that fund and hence the Company is unable to disclose the classification of plan asset fair value in accordance with IAS 19 paragraph 142. The composition of fair value of plan assets as of December 31, 2019 and 2018 is given in the Annual Labor Retirement Fund Utilisation Report announced by the government.
- (e) The principal actuarial assumptions used were as follows:

	Year ended	Year ended
	December 31, 2019	December 31, 2018
Discount rate	0.75%	1.00%
Future salary increases	2.00%	2.00%

Future mortality rate was estimated separately based on the 5th Taiwan Standard Ordinary Experience Mortality Table.

Because the main actuarial assumption changed, the present value of defined benefit obligation is affected. The analysis was as follows:

	Discou	ınt rate	Future salary increases					
	Increase 25%	Decrease 25%	Increase 25%	Decrease 25%				
December 31, 2019 Effect on present value of defined benefit obligation December 31, 2018	(\$ 12,483)	\$ 13,079	\$ 12,883	(\$ 12,363)				
Effect on present value of defined benefit obligation	(\$ 13,020)	\$ 13,663	\$ 13,492	(\$ 12,926)				

The sensitivity analysis above is based on other conditions that are unchanged but only one assumption is changed. In practice, more than one assumption may change all at once. The method of analysing sensitivity and the method of calculating net pension liability in the balance sheet are the same.

The method and assumptions used for the preparation of sensitivity analysis during 2019 and during 2018 are the same.

- (f) Expected contributions to the defined benefit pension plans of the Group for the next year amounts to \$11,619.
- (g) As of December 31, 2019, the weighted average duration of that retirement plan is 14 years.
- B. (a) Effective July 1, 2005, the Company and its domestic subsidiaries have established a defined contribution pension plan (the "New Plan") under the Labor Pension Act (the "Act"), covering all regular employees with R.O.C. nationality. Under the New Plan, the Company and its domestic subsidiaries contribute monthly an amount based on 6% of the employees' monthly salaries and wages to the employees' individual pension accounts at the Bureau of Labor Insurance. The benefits accrued are paid monthly or in lump sum upon termination of employment.
  - (b) Episky Corporation (Xiamen) Ltd., EPISKY Corporation (Changzhou) LTD, Luxlite (Shenzhen) Corporation Limited, Epicrystal Corporation (Changzhou) Ltd., United LED Shandong Corporation, EPIRICH (Guangzhou) Co., Ltd, Jiangsu Canyang Optoelectronics Ltd. and Ningbo Formosa Epitaxy Incorporation have funded defined contribution plans. Monthly contributions to an independent fund administered by the government in accordance with the pension regulations in the People's Republic of China (PRC) are based on a certain percentage stipulated by the government. Other than the monthly contributions, these companies do not have further obligations.
  - (c) The pension costs under the defined contribution pension plans of the Group for the years ended December 31, 2019 and 2018 were \$181,822 and \$185,082, respectively.

#### (18) Share-based payment

A. For the years ended December 31, 2019 and 2018, the Group's share-based payment arrangements were as follows:

Type of		Quantity granted		Vesting
arrangement	Grant date	(thousand shares)	Contract period	condition
Treasury stock Transferred to	2017.09.26	20,000	2 years	Note

employees

Note: The Board of Directors adopted a resolution to transfer 20,000 thousand treasury stocks to employees with a subscription price of NT\$26.9 and without transfer restriction during the meeting on September 26, 2017. If employees resign during the vesting period, they are obliged to compensate for the difference between closing market price and the

subscription price on the date of security delivery which is under the discretion of the Chairperson.

B. For the years ended December 31, 2019 and 2018, the share-based payment arrangements of the Company's subsidiary, United LED Corporation (Hong Kong) Limited, are as follows:

#### Quantity granted

Type of arrangement	Grant date	(thousand shares)	Vesting conditions
Employee stock	2010.8.1	1,500,000	Note A
option			

Note A: 30% upon completion of 1 year's service; 60% upon completion of 2 years' service; 100% upon completion of 3 years' service.

C. Details of the share-based payment arrangements are as follows:

	Year ended Dec	cember 31, 2019	Year ended December 31, 2018			
	No.of shares	Weighted-average No.of shares exercise price		Weighted-average exercise price		
	(in thousands)	(in US dollars)	(in thousands)	(in US dollars)		
Options outstanding from						
beginning to the end of						
the period	1,048,700	\$ 0.0001	1,048,700	\$ 0.0001		
Options exercisable at end						
of the period	1,048,700		1,048,700			
ong-term deferred revenue (s						

 $(19) Lo_{1}$ 

	Decen	nber 31, 2019	December 31, 2018		
Government grants revenue	\$	445,956	\$	583,765	
Deferred technical services revenue		12,307		16,266	
	\$	458,263	\$	600,031	

- A. The Company's subsidiaries obtained government grants for acquisitions of equipment and technology investments and recognized such grants as revenue over the economic lives of those assets. Government grants revenue recognized for the years ended December 31, 2019 and 2018 were \$174,876 and \$146,935 (shown under "Other revenue"), respectively.
- B. In 2009 and 2018, the Company signed a technical permission and technical support contract with Litefield Corporation (Dalian) LTD, and recognises technical services revenue over the contract periods. Technical services revenue recognised for the years ended December 31, 2019 and 2018 were \$13,205 and \$14,501, respectively.

#### (20) Share capital

A. As of December 31, 2019, the Company's authorized capital was \$13,000,000, consisting of 1,300,000 thousand shares of ordinary stock (including 35,000 thousand shares reserved for employee stock options), and the paid-in capital was \$10,887,014 with a par value of \$10 (in dollars) per share. All proceeds from shares issued have been collected.

Movements of the Company's outstanding ordinary shares are as follows (expressed in thousands of shares):

		2019	2018
At January 1		1,083,051	1,075,836
Repurchase of treasury stocks	(	4,715) (	3,085)
Treasury stocks transferred to employees		<u>-</u>	10,300
At December 31		1,078,336	1,083,051

B. Pursuant to the issuance of global depositary receipts (GDRs), the Company issued 135 million shares of common stocks for \$1,350,000 thousand dollars. On September 22, 2009, the issuance of GDRs was completed and the GDRs are traded on the Luxembourg Stock Exchange. The total

- GDRs issued were 27,000,000 units, each represented 5 common shares and USD \$13 (in dollars) per unit, amounting to USD \$351 million.
- C. On October 1, 2018, the total operating assets and liabilities of iii-v semiconductors OEM business for spin-off and assignments to Unikorn Semiconductor Corporation were \$1,000,000 and \$0, respectively. Unikorn Semiconductor Corporation issued 100 million shares, at a price of \$10 per share (par value of \$5), to exchange the abovementioned assets and liabilities. The details are as follows:

Assets	Oct	ober 1, 2018
Bank deposits	\$	360,172
Property, plant and equipment		639,828
	\$	1,000,000

#### D. Treasury shares

(a) Reason for share reacquisition and movements in the number of the Company's treasury shares are as follows:

	Thousand shares/Thousand Year ended December 31, 2019							
Reason for reacquisition	Beginning balance	Increase	Decrease	Ending balance	Boo	ok value		
Held by subsidiaries	2,565	-	-	2,565	\$	135,163		
Held by the company	3,085	4,715	-	7,800		190,327		
		Year ended December 31, 2018						
Reason for reacquisition	Beginning balance	Increase	Decrease	Ending balance	Во	ok value		
Held by subsidiaries	2,565	-	-	2,565	\$	135,163		
Held by the company	=	3,085	-	3,085		75,845		
To be reissued to employees	10,300	-	( 10,300)	-		-		

- (b) Pursuant to the R.O.C. Securities and Exchange Act, the number of shares bought back as treasury share should not exceed 10% of the number of the Company's issued and outstanding shares and the amount bought back should not exceed the sum of retained earnings, paid-in capital in excess of par value and realised capital surplus.
- (c) Pursuant to the R.O.C. Securities and Exchange Act, treasury shares should not be pledged as collateral and is not entitled to dividends before it is reissued.
- (d) Pursuant to the R.O.C. Securities and Exchange Act, treasury shares should be reissued to the employees within three years from the reacquisition date and shares not reissued within the three-year period are to be retired. Treasury shares to enhance the Company's credit rating and the stockholders' equity should be retired within six months of acquisition.

E. Information of the Company's shares held by subsidiaries – Lighting Investment Corporation is as follows:

	December 31, 2019	December 31, 2018
	Lighting Investment	Lighting Investment
	<u>Corporation</u>	Corporation
Shares	2,565 thousand share	2,565 thousand shares
Book value	\$ 135,163	\$ 135,163
Fair value	\$ 82,970	\$ 65,658

#### (21) Capital surplus

- A. Pursuant to the Company Act, capital surplus, including additional paid-in capital in excess of par and donation, shall be exclusively used to cover accumulated deficit or to issue new stock or cash to shareholders in proportion to their ownership when the Company has no accumulated deficit. However, pursuant to the R.O.C. Securities and Exchange Act, capital surplus arising from paid-in capital in excess of par value on issuance of common stock and donations can be capitalized once a year, provided that the Company has no accumulated deficit and the amount to be capitalized does not exceed 10% of the paid-in capital.
- B. The shareholders resolved at their meeting on June 21, 2018 to issue cash to shareholders from capital surplus of \$121,765.
- C. The shareholders resolved at their meeting on June 20, 2019 to issue cash to shareholders from capital surplus of \$324,270.

						Changes in ownership	cons	rence between ideration and ing amount of ubsidiaries	equity of associates		
	Sh	nare premium		nsactions		interests in subsidiaries		cquired or disposed		method	
At January 1, 2019	\$	38,308,747	\$	195,387	\$	840,155	\$	105,198	\$	66,192	
Capital surplus used to offset accumulated deficits	(	324,270)		-		-		-		-	
Treasury stocks transferred to employees Changes in owner ship interest in subsidiaries accounted for using		-		-		-		-		7,304	
equity method						14,059					
At December 31, 2019	\$	37,984,477	\$	195,387	\$	854,214	\$	105,198	\$	73,496	

	Share premium	Treasury share transactions	e ii	changes in ownership nterests in obsidiaries	Difference between consideratio and carrying amount of subsidiaries acquired or disposed	n g a	Change in net equity of associates and joint ventures accounted for under equity method		Employee restricted shares
At January 1, 2018	\$ 38,430,512	\$ 47,649		834,683	\$ 105,93	0 5	524,287	\$	27,906
Capital surplus used to	( 121,765)	-		-	, ,,,,,,,	-	-	•	-
offset accumulated deficits Net change in the equity of	-	-		-		- (	458,095)		-
associates									
Treasury stocks transferred	-	145,686	)	-		-	-	(	27,906)
to employees Difference between	-	-	=	-	( 73	2)	-		-
consideration and carrying amount of subsidiaries acquired or disposed									
Changes in owner ship interestet in subsidiaries accounted for using equity method	-	-	-	5,472		-	-		-
Capital surplus adjustment									
due to dividend paid to									
subsidiaries		2,052	<u>:                                    </u>				<u> </u>		
At December 31, 2018	\$ 38,308,747	\$ 195,387		840,155	\$ 105,19	8 \$	66,192	\$	
(22) <u>Unappropriated retained</u>	d earnings (Ac	ccumulated	defic	<u>cit)</u>					
				20	19	_	2018	3	
At January 1			\$		479,888	\$	1	,61	4,226
Effect of restrospective	application an	ıd							
retrospective restatem	ent				-			4	6,946
Profit loss for the year			(		3,753,797)	(		45	6,146)
Proceeds from disposal	of financial as	ssets at							
fair value through other	er comprehens	sive income			-	(			1,071)
Remeasurement of defir	ned benefit ob	ligations			4,287			2	5,129
Appropriation of earning						(_			9,196)

A. In accordance with the Company's Articles of Incorporation, 10% of current year's earnings, after paying all taxes and dues and covering prior years' losses, shall be appropriated as legal reserve until the total equals the issued share capital. Special reserve shall be appropriated or reversed when needed. The remaining earnings along with the prior years' accumulated unappropriated earnings are considered as distributable earnings, and shall be retained and appropriated in proportion to the number of shares held by each shareholder accordingly.

(\$

3,269,622) \$

At December 31

B. The Company appropriates earnings based on the factors such as current and future investment environment, capital needs, domestic and overseas competition and capital budget, along with the consideration of shareholders' interest and capital adequacy. The appropriation of cash dividends shall not be lower than 10% of the total dividend appropriated to shareholders.

- C. Except for covering accumulated deficit or issuing new stocks or cash to shareholders in proportion to their share ownership, the legal reserve shall not be used for any other purpose. The use of legal reserve for the issuance of stocks or cash to shareholders in proportion to their share ownership is permitted, provided that the distribution of the reserve is limited to the portion in excess of 25% of the Company's paid-in capital.
- D. In accordance with the regulations, the Company shall set aside special reserve from the debit balance on other equity items at the balance sheet date before distributing earnings. When debit balance on other equity items is reversed subsequently, the special reserve is reversed accordingly and could be included in the distributable earnings.
- E. The earnings appropriation as resolved by the Board of Directors on June 21, 2018 is as follows:

Year ended December 31, 2017				
	Amount	Divi	dends per share (in dollars)	
\$	161,423	\$	-	
	703,607		-	
	749,196		0.688156	
\$	1,614,226			
	\$	Amount \$ 161,423 703,607 749,196	Amount   Divi \$ 161,423   \$ 703,607 749,196	

- F. The appropriations of 2018 deficit had been resolved at the shareholders' meeting on June 20, 2019 that offset the deficits by special reserve amounting to \$385,142.
- G. For the information relating to employees' compensation (bonuses) and directors' and supervisors' remuneration, please refer to Note 6(30).

#### (23) Other equity items

,		Unrealiz	zed gain or loss on	
	Currency	translation differences available-fo	r-sale financial assets	Total
At January 1, 2019	(\$	818,175) (\$	499,815) (\$	1,317,990)
Revaluation - gross		388,784	-	388,784
Revaluation - tax	(	70,757)	- (	70,757)
Disposal of investments accounted for using equity method		-	3,332	3,332
Currency translation				
-Group		- (	354,694) (	354,694)
-Tax on Group		-	70,939	70,939
-Associates		- (	6,374) (	6,374)
-Tax on associates		<u> </u>	1,275	1,275
At December 31, 2019	( <u>\$</u>	500,148) (\$	785,337) (\$	1,285,485)

Unrealized ga	in or loce on	

	Currency t	ranslation differences	available-for-sale financial assets		Total
At January 1, 2018	(\$	268,293)	(\$ 415,950)	(\$	684,243)
Effect of retrospective application and retrospective restatement	(	52,055)	3,595	(	48,460)
Revaluation - gross	(	616,461)	-	(	616,461)
Revaluation - tax		117,563	-		117,563
Revaluation transferred to retained earnings - gross		1,071	-		1,071
Disposal of investments accounted for using equity method		-	5,439		5,439
Currency translation					
-Group		-	( 208,330)	) (	208,330)
-Tax on Group		-	63,311		63,311
-Associates		-	65,150		65,150
-Tax on associates			(13,030)	(	13,030)
At December 31, 2018	(\$	818,175)	(\$ 499,815)	(\$	1,317,990)

# (24) Operating revenue

	Year ended December 31, 2019			Year ended December 31, 2018	
Revenue from contracts with customers:					
Sales revenue	\$	15,294,741	\$	19,449,635	
Services revenue		605,073		831,243	
Other operating revenue		60,017		25,534	
-	\$	15,959,831	\$	20,306,412	

Disaggregation of revenue from contracts with customer

The Group derives revenue from the transfer of goods and services over time and at a point in time in the following major product lines and geographical regions:

2019	 Epi	Chip	 Other	 Total
Sales revenue	\$ 14,323,051	\$ 170,297	\$ 801,393	\$ 15,294,741
Services revenue	-	-	605,073	605,073
Other operating revenue	-	-	60,017	60,017
2018	 Epi	Chip	 Other	 Total
2018 Sales revenue	\$ Epi 18,746,372	\$ Chip 209,844	\$ Other 493,419	\$ Total 19,449,635
-	\$ 	\$ 	\$ 	\$ 

# (25) Other income and expenses—net

	ear ended nber 31, 2019	Year ended December 31, 2018	
Other income	 _		_
Royalty and technical income	\$ 21,044	\$	39,286
Government grants revenue	 236,485		181,663
Total	\$ 257,529	\$	220,949

# (26) Other income

(20) <u>ame meeme</u>		Year ended mber 31, 2019		Year ended
Interest income:	Dece	111001 31, 2019	Dece	mber 31, 2018
Interest income from bank deposits	\$	45,637	\$	45,350
Net currency exchange (losses) gains	(	9,940)	Ψ	71,633
Other interest income	(	8,279		5,300
Total interest income		43,976		122,283
Rental revenue		115,538		75,795
Dividend income		29,330		13,940
Miscellaneous income		91,932		78,360
Total	\$	280,776	\$	290,378
(27) Other gains and losses	<del>*</del>		<del>-</del>	
(21) Gailet game and 100000	7	Year ended	7	ear ended
		mber 31, 2019		mber 31, 2018
Losses on disposal of property, plant and equipment	(\$	1,031)		113,219)
Gains (losses) on disposal of intangible assets		5,698	(	141)
(Losses) gains on disposal of investments	(	36,955)		310,915
Loss on disposal of non-current assets held for sale	(	1,294)		-
Net currency exchange (losses) gains	(	117,275)		41,456
Net gains on financial assets at fair value				
through profit or loss		319,276		12,382
Recognised in loss,non-current assets held for sale	(	1,881)	(	158,299)
Impairment loss on non-financial assets	(	207,922)	(	501,475)
Bargain purchase gains		160,110		-
Miscellaneous losses	(	273,343)	(	129,669)
Total	(\$	154,617)	(\$	538,050)
(28) <u>Finance costs</u>				
		ear ended		ear ended
	Dece	mber 31, 2019	Dece	mber 31, 2018
Interest expense:				
Bank borrowings	\$	129,486	\$	158,171
Net currency exchange losses (gains)		545	(	9,739)
Other interest expense		30,240		28,001
		160,271		176,433
Less: capitalisation of qualifying assets			(	755)
	\$	160,271	\$	175,678

#### (29) Expenses by nature

	Year ended		Ŋ	Year ended		
	December 31, 2019			December 31, 2018		
Employee benefit expenses	\$	4,303,870	\$	4,516,886		
Depreciation charges on property, plant and		_		_		
equipment (Note)	\$	4,856,814	\$	4,758,265		
Amortisation charges on intangible assets	\$	260,469	\$	267,542		

Note: Depreciation amounting to \$152,875 and \$75,051 were recognized as a deduction of rental revenue for the years ended December 31, 2019 and 2018, respectively.

#### (30) Employee benefit expenses

	Year ended		Year ended	
	Dece	mber 31, 2019	December 31, 2018	
Wages and salaries	\$	3,614,649	\$	3,812,243
Labor and health insurance expenses		285,889		288,578
Pension costs		183,643		188,506
Other personnel expenses		219,689		227,559
	\$	4,303,870	\$	4,516,886

- A. According to the Articles of Incorporation of the Company, the Company shall distribute employees' compensation and directors' remuneration based on 10%~20% and 2% of the distributable profit of the current year, respectively. If the Company has accumulated deficit, earnings should be reserved to cover losses.
  - The abovementioned distributable profit of the current year refers to the current year's income before tax (excluding put option, call option, conversion right and reacquisition of corporate bonds on overseas convertible bond that are recorded in other gains and losses) less the profit prior to the appropriation of employees' compensation and directors' remuneration.
- B. The aforementioned amounts were recognised in salary expenses. For the years ended December 31, 2019 and 2018, the Company incurred loss and thus did not accrue employees' compensation and directors' and supervisors' remuneration. Information about employees' compensation and directors' and supervisors' remuneration of the Company as resolved by the Board of Directors will be posted in the "Market Observation Post System" at the website of the Taiwan Stock Exchange.

# (31) Income tax

- A. Income tax expense (benefit)
  - (a) Components of income tax expense:

	Year ended		Y	ear ended	
	Decen	nber 31, 2019	December 31, 2018		
Current tax:					
Current tax on profits for the year	\$	38,203	\$	59,998	
Prior year income tax underestimation	(	40,189)		18,853	
Total current tax	(	1,986)		78,851	
Deferred tax:					
Origination and reversal of temporary					
differences		185,404	(	165,016)	
Effect from changes in tax regulation			(	275,112)	
Total deferred tax		185,404	(	440,128)	
Income tax expense (benefit)	\$	183,418	(\$	361,277)	

(b) The income tax (charge)/credit relating to components of other comprehensive income is as follows:

	Year ended		Year ended	
	Dece	December 31, 2019		ber 31, 2018
Fair value unrealized gains/losses on available-for-sale financial assets	\$	70,756	(\$	117,563)
Currency translation differences	(	70,939)	(	50,281)
Share of other comprehensive income of associates	(	1,274)		-
Remeasurement of defined benefit				
obligations		1,074		6,365
Total	(\$	383)	(\$	161,479)

B. Reconciliation between income tax (benefit) expense and accounting profit:

	Year ended		Year e	ended
	Dece	mber 31, 2019	December	31, 2018
Tax calculated based on profit (losses) before tax and statutory tax rate	(\$	750,820)	(\$	141,122)
Effects from expenses disallowed and tax				
exempted income by tax regulation		15,198		18,707
Change in assessment of realisation of				
deferred tax assets		185,404	(	165,016)
Taxable loss not recognised as deferred tax				
assets		672,090		182,413
Investment tax not recognised as deferred				
tax assets		101,735		-
Prior year income tax (over) underestimation	(	40,189)		18,853
Effect from changes in tax regulation			(	275,112)
Income tax expense (benefit)	\$	183,418	( <u>\$</u>	361,277)

# C. Amounts of deferred tax assets or liabilities as a result of temporary differences, tax losses and investment tax credit are as follows:

investment tax credit are as i	OHUW	<b>3.</b>		2	2019	)		
	-	Recognized in other						
			R	decognized in	comprehensive			
		Ionuomi 1		orofit or loss	•	income	D	ecember 31
Defermed to a control		January 1	<u></u> }	10111 01 1088		ilicome		ecember 31
Deferred tax assets:  — Temporary differences:								
Unrealized loss on inventory	\$	29,555	\$	64,471	\$		\$	94,026
Unrealized exchange loss	Ф	29,333	Ф	21,435	Ф	-	Ф	21,435
Unrealized exchange loss Unrealized sales returns		-		21,433		-		21,433
and discounts		38,338	(	21,432)		_		16,906
Bad debt expense		4,036	(	2,993)		_		1,043
Investment loss under		4,030	(	2,773)		_		1,043
equity method		561,842		233,344		_		795,186
Impairment loss for		301,012		255,511				755,100
non-financial assets		43,101		_		_		43,101
Loss on valuation of		Ź						,
financial assets		254,828		_	(	137,908)		116,920
Impairment loss for					`	,		
financial assets		47		-		-		47
Deferred revenue		65,565	(	6,291)		-		59,274
Currency translation								
differences		628,485		-		221,819		850,304
Unrealized pension		27,034	(	1,832)	(	1,074)		24,128
Others		183,689	(	56,170)		-		127,519
Tax losses		1,954,622	(	177,892)		-		1,776,730
Investment tax credit		119,990	(	101,735)				18,255
Subtotal	\$	3,911,132	(\$	49,095)	\$	82,837	\$	3,944,874
— Deferred tax liabilities:								
Unrealized								
exchange gain	(\$	47)	\$	47	\$	-	\$	-
Unrealized gross profit	(	17,157)		14,047		- (		3,110)
Bargain purchase gain	(	22,670)		15,295		- (		7,375)
Investment gain under								
equity method	(	532,707)	(	31,356)		- (		564,063)
Gain on valuation of financial								
assets	(	119,297)		-		60,515 (		58,782)
Currency translation	,	477 100			,	107.0(0)	,	(05.156)
differences	(	477,196)		124242	(	127,960) (		605,156)
Others		233,827)	_	134,342)	_	- (		368,169)
Subtotal	(	1,402,901)	_	136,309)	<u></u>	67,445) (		1,606,655)
Total	\$	2,508,231	( <u>\$</u>	185,404)	\$	15,392	\$	2,338,219

	2018							
	-				Recognized in other			
			Re	ecognized in	comprehensive	nprehensive		
	J	anuary 1	pı	rofit or loss	income	D	ecember 31	
Deferred tax assets:								
— Temporary differences:								
Unrealized inventory loss	\$	25,156	\$	4,399	\$ -	\$	29,555	
Unrealized exchange loss		277	(	277)	-		-	
Unrealized sales returns								
and discounts		9,794		28,544	-		38,338	
Bad debt expense		11,158	(	7,122)	-		4,036	
Unrealized loss from sales		4,949	(	4,949)	-		_	
Investment loss under								
equity method		513,745		48,097	-		561,842	
Impairment loss for								
non-financial assets		103,733	(	60,632)	=		43,101	
Loss on valuation of								
financial assets		112,585		-	142,243		254,828	
Impairment loss for		2 40 4	,	2.425				
financial assets		3,484		3,437)	-		47	
Deferred revenue		76,642	(	11,077)	-		65,565	
Currency translation		£1.5.700			110 777		620.405	
differences		515,708		462	112,777		628,485	
Unrealized pension		20,206		463	6,365		27,034	
Others		9,169		174,520	-		183,689	
Tax losses		1,494,734		459,888	-		1,954,622	
Investment tax credit		119,990		<u>-</u>			119,990	
Subtotal		3,021,330		628,417	261,385	_	3,911,132	
<ul><li>Deferred tax liabilities:</li><li>Unrealized</li></ul>								
exchange gain		-	(	47)	=	(	47)	
Unrealized gross profit		-	(	17,157)	=	(	17,157)	
Bargain purchase gain Investment gain under	(	36,272)		13,602	-	(	22,670)	
equity method Gain on valuation of financial	(	516,341)	(	16,366)	-	(	532,707)	
assets	(	104,743)		_	( 14,554)	(	119,297)	
Currency translation	•	. ,				•	,	
differences	(	393,055)		-	( 84,141)	(	477,196)	
Others	(_	47,386)	(_	186,441)		(_	233,827)	
Subtotal	(	1,097,797)	(	206,409)	( 98,695)	(	1,402,901)	
Total	\$	1,923,533	\$	422,008	\$ 162,690	\$	2,508,231	

D. Details of the amount the Group is entitled as investment tax credit and unrecognized deferred tax assets are as follows:

Unutilized tax losses from Company is as follows:

December 31, 2019

Qualifying items		Unused tax credits	recognised red tax assets	Expiry year
Investment credit for stockholder	\$	499,950	\$ 499,950	2020
Investment credit for stockholder		100,000	8,725	2021
Investment tax credits for industrial innovation		967,447	967,447	2020
	_			

December 31, 2018

Qualifying items	Unused tax credits	recognised red tax assets	Expiry year
Investment credit for stockholder	\$ 499,950	\$ -	2020
Investment credit for stockholder	100,000	-	2021
Investment tax credits for industrial innovation	793,193	793,193	2019
Investment tax credits for industrial innovation	967,447	967,447	2020

Unutilized tax losses from the subsidiary is as follows:

December 31, 2019

Qualifying items	Ţ	Unused tax credits	ecognised red tax assets	Expiry year	_
Investment tax credits for industrial innovation	\$	25,608	\$ 25,608	2020	_

E. Expiration dates of unused tax losses and amounts of unrecognized deferred tax assets are as follows:

Unutilized tax losses from the Company is as follow:

December 31, 2019

			20001111001101	,		
	Amount filed /			Unr	ecognised deferred	
Year incurred	assessed	Un	used amount		tax assets	Expiry year
2014	Assessed	\$	3,948,345	\$	3,948,345	2024
2015	Assessed		1,048,267		4,990	2025
2016	Assessed		3,408,870		-	2026
2018	Filed		852,051		-	2028
2019	Filed		3,375,698		-	2029
			December 31	, 2018	}	

	Amount filed /					
Year incurred	assessed	Un	used amount	 tax assets		Expiry year
2014	Assessed	\$	3,948,345	\$	-	2024
2015	Assessed		1,048,266		-	2025
2016	Assessed		3,408,870		-	2026
2018	Field		852,051		-	2028

Unutilized tax losses from the subsidiary is as follows:

December 31, 2019

	Amount filed /		Unrecognised deferred	
Year incurred	assessed	Unused amount	tax assets	Expiry year
2011	Assessed	\$ 2,095	\$ 2,095	2021
2012	Assessed	46,635	46,635	2022
2013	Assessed	8,487	8,487	2023
2014	Assessed	19,810	19,810	2024
2015	Filed	447,720	447,720	2020
2015	Assessed	9,427	9,427	2025
2016	Filed	590,727	590,727	2026
2016	Assessed	146,835	146,835	2021
2017	Assessed	155,463	155,463	2027
2017	Assessed	41,066	41,066	2027
2018	Filed	60,356	60,356	2028

#### December 31, 2018

	Amount filed /		Unrecognised deferred	
Year incurred	assessed	Unused amount	tax assets	Expiry year
2011	Assessed	\$ 1,166	\$ 1,166	2021
2012	Assessed	46,635	46,635	2022
2013	Filed	369,062	369,062	2023
2014	Filed	460,286	460,286	2019
2014	Assessed	19,810	19,810	2024
2015	Filed	470,249	465,088	2020
2015	Assessed	9,427	9,427	2025
2016	Filed	613,643	613,643	2021
2016	Assessed	146,835	146,835	2026
2017	Filed	155,454	155,454	2027

- F. The amounts of deductible temporary difference that are not recognized as deferred tax assets are as follows: None.
- G. The Company's products qualify for "Regulations for Encouraging Manufacturing Enterprises and Technical Service Enterprises in the Newly Emerging, Important and Strategic Industries" and the Company is entitled to the income tax exemption for five consecutive years. The duration has been set to start from January 1, 2017.
- H. The Company's income tax returns through 2017 have been assessed and approved by the Tax Authority.
- I. Under the amendments to the Income Tax Act which was promulgated by the President of the Republic of China on February 7, 2018, the Company's applicable income tax rate was raised from 17% to 20% effective from January 1, 2018. The Company has assessed the impact of the change in income tax rate.

#### (32) Losses per share

		Ye	ar ended December 31, 201	9
			Weighted average number of outstanding ordinary shares	Losses per share
	A	ount after tax	(share in thousands)	(in dollars)
Basic losses per share	Ame	Juni anter tax	(share in thousands)	(iii dollars)
Losses attributable to the parent	( <u>\$</u>	3,753,797)	1,078,425 (	(\$ 3.48)
		Ye	ar ended December 31, 201	8
			Weighted average	
			number of outstanding	
			ordinary shares	Losses per share
	Amo	ount after tax	(share in thousands)	(in dollars)
Basic losses per share				
Losses attributable to the parent	(\$	456,146)	1,084,686 (	(\$ 0.42)

#### (33) Business combinations

- A. On April 11, 2019, the Group acquired 52.6% of the share capital of Prolight Opto Technology Company for \$104,600 thousand dollars and obtained the control over Prolight Opto Technology Company. As a result of the acquisition, the Group is expected to increase its presence in these markets. It also expects to reduce costs through economies of scale.
- B. The following table summarises the consideration paid for Prolight Opto Technology Company and the fair values of the assets acquired and liabilities assumed at the acquisition date, as well as the fair value of the non-controlling interest at the acquisition date:

	Ap:	ril 11, 2019
Purchase consideration		
Cash paid	\$	104,600
Fair value of equity interest in Prolight Opto Technology Company		
held before the business combination		307,809
Fair value of the non-controlling interest		515,919
		928,328
Fair value of the identifiable assets acquired and liabilities assumed		
Cash		265,017
Notes receivable		25,829
Accounts receivable		170,038
Other receivables		8,043
Inventories		76,874
Other current assets		23,099
Property, plant and equipment		743,178
Intangible assets		484
Other non-current asset		74,560
Notes payable	(	2,374)
Accounts payable	(	98,616)

	Ap	ril 11, 2019
Other payables	(	56,818)
Other current liabilities	(	18,328)
Long-term borrowings	(	121,563)
Other non-current liabilities	(	985)
Total identifiable net assets		1,088,438
Bargain purchase gains	(\$	160,110)

- C. Non-controlling interests are measured at the present ownership instruments' proportionate share in the recognised amounts of the acquiree's identifiable assets.
- D. The Group recognised loss of \$66,847 as a result of measuring at fair value its 40.2% equity interest in Prolight Opto Technology Company held before the business combination.
- E. The business combination had a gain from bargain purchase amounting to \$160,110 because the carrying amounts of acquiree's property and plant were lower than their fair values.
- F. The operating revenue included in the consolidated statement of comprehensive income since April 11, 2019 contributed by Prolight Opto Technology Company was \$419,377. Prolight Opto Technology Company also contributed profit before income tax of \$25,422 over the same period. Had Prolight Opto Technology Company been consolidated from January 1, 2019, the consolidated statement of comprehensive income would show operating revenue of \$16,090,141 and profit before income tax of \$3,768,793.

# (34) Supplemental cash flow information

A. Investing activities with partial cash payments

	Year ended December 31, 2019			Year ended	
				December 31, 2018	
Purchase of property, plant and equipment	\$	2,489,724	\$	3,606,868	
Add: Opening balance of payable					
on equipment		1,153,185		848,963	
Add: Ending balance of prepayment					
for equipment		144,179		214,939	
Less: Ending balance of payable					
on equipment	(	545,544)	(	1,153,185)	
Less: Opening balance of prepayment					
for equipment	(	214,939)	(	349,388)	
Less:Payable on equipment transferred to					
other income	(	44,133)		<u>-</u>	
Cash paid during the year	\$	2,982,472	\$	3,168,197	
Intangible assets:					
		Year ended		Year ended	
	De	ecember 31, 2019	De	ecember 31, 2018	
Purchase of intangible assets	\$	73,225	\$	96,142	
Add: Opening balance of payables		142,218		177,597	
Less: Ending balance of payables	(	94,525)	(	142,218)	
Cash paid during the year	\$	120,918	\$	131,521	

B.	<b>Partial</b>	cash	investing	activities
<b>D</b> .	I altial	Cubii	III V COUIII	activition

B. Partial cash investing	g activities				
		Yea	ır ended	Year	ended
		Decemb	per 31, 2019	Decembe	er 31, 2018
Sale of property, plan	nt and equipment	\$	191,537	\$	74,395
Add: Opening balance	ce of receivables		2,704		4,581
Less: Ending balance	e of receivables	(	2,000)	(	2,704)
Cash collected during	g the period	\$	192,241	\$	76,272
C. Cash received from o	disposal of ownership into	erests in sub	sidiaries	-	
		Yea	r ended	Year	ended
		Decemb	per 31, 2019	Decembe	er 31, 2018
Disposal proceeds		\$	_	\$	212,757
Add: Opening balance	ce of receivables		17,093		77,400
Less: Ending balance		(	17,093)	(	17,093)
Net cash provided by	disposal of subsidiaries	\$	_	\$	273,064
D. Financing activities	with partial cash			-	
		Yea	ır ended	Year	ended
		Decemb	per 31, 2019	Decembe	er 31, 2018
Treasury shares reiss	ued to employees	\$	-	\$	391,400
Less: Shown as 'Oth	er receivables'			(	104,503)
Cash collected in the	year	\$	<u> </u>	\$	286,897
(35) Changes in liabilities from	om financing activities				
		Short-term		Guarantee	Liabilities from
	Short-term Long-term borrowing borrowing	notes and bill payable	ls Lease liabilities	deposits fi received	inancing activities gross
At January 1, 2019	\$ 1,874,876 \$ 575,114	. <u></u>			\$ 4,319,448
Acquired from business	- 121,563			=	121,563
combinations Changes in cash flow from					
financing activities Effect of interest	( 133,587) 431,881	2,03		( 5,790)	152,570
Additions			- 27,992 - 46,136	-	27,992 46,136
Effect of exchange rate changes	1.105				
in borrowings Effect of exchange rate	1,105 - ( 58,611) -	13,43	4) ( 2,007)	( 2,284) (	1,105 76,336)
At December 31, 2019	\$ 1,683,783 \$ 1,128,558	- \		\$ 62,370	\$ 4,592,478
			GI		Liabilities from
	Short-term Lo	ong-term		Guarantee deposits	financing activities
		U		received	gross
At January 1, 2018		3,098,136 \$	376,791 \$	49,501 \$	
Changes in cash flow from	1 202 014 (	2 522 020\ (	11.614)	22.251 (	1 220 024)
financing activities Effect of exchange rate change		2,533,038) (	11,614)	22,251 (	1,330,024)
borrowings	( 1,105)	634	-	- (	471)
Effect of exchange rate	( 27,033) (	812) (	7,460) (	1,308) (	27,845)
Amortisation of borrowings of		10,194	<u> </u>		10,194
At December 31, 2018	<u>\$ 1,874,876</u> <u>\$</u>	575,114 \$	357,717 \$	70,444 \$	2,449,990

#### 7. RELATED PARTY TRANSACTIONS

#### (1) Names of related parties and relationship

Names of related parties	Relationship with the Group				
Everlight Electronics Co., Ltd. and its subsidiaries	Other related parties (Note 6)				
Seoul Semiconductor Co., Ltd.	Other related parties				
Seoul Viosys Co. ,Ltd.	Other related parties				
Country Lighting(BVI) Co., Ltd.	Associates				
ES -LEDRU LLC.	Associates				
LEDOLUX Sp. Zo. O.	Associates				
LEDAZ Co., Ltd.	Associates				
Interlight Optotech (HK) CO., Limited	Associates				
Nan Ya Photonics Incorporation	Associates				
Tekcore Co., Ltd.	Associates				
TE Opto Corporation	Associates				
Very Optoelectronics (HUI ZHOU) Co., Ltd	Associates (Note 1)				
PlayNitride Inc.	Associates (Note 2)				
Tops Electrical Technology Co., Ltd.	Associates (Note 3)				
KAISTAR Lighting (Xiamen) Co., Ltd.	Associates (Note 4)				
ProLight Opto Technology Corporation	Note 5				
Note 1: It is no longer the Company's other related party beginning on March 14, 2018.					
Note 2: It is no longer the Company's other related party beginning on March 6, 2018.					
Note 3: It is no longer the Company's other related party	beginning on March 29, 2018.				

Note 4: It is no longer the Company's other related party beginning on April 26, 2018.

Note 5: It is no longer the Company's other related party beginning on April 11, 2019.

Note 6: It is no longer the Company's other related party beginning on June 20, 2019.

#### (2) Significant related party transactions and balances

#### A. Operating revenue:

	Year ended December 31, 2019		Year ended December 31, 2018	
Other related parties				
Everlight Electronics Co., Ltd and its	\$	633,080	\$	1,716,675
subsidiaries				
Others		79,143		251,975
Subtotal		712,223		1,968,650
Associates		438,292		1,233,180
Total	\$	1,150,515	\$	3,201,830

The sales price and collection terms to related parties are generally comparable to those of third parties which is 150 days after month-end closing. Additionally, the sales price offered to certain related parties is not comparable to third parties since there is no such transaction with third parties. All other sales prices to related parties are the same as those to third parties.

#### B. Purchases:

		ear ended	Year ended		
	Decem	ber 31, 2019	Decen	nber 31, 2018	
Associates					
KAISTAR Lighting (Xiamen) Co.,Ltd	\$	-	\$	209,703	
Others		16,847		80,353	
	\$	16,847	\$	290,056	

Due to the product variety, the purchase price from the above related parties was not comparable to other suppliers while other products have no difference with market price.

# C. Receivables from related parties:

	December 31, 2019		Decen	nber 31, 2018
Accounts receivable:				
Other related parties				
Everlight Electronics Co., Ltd. and its	\$	-	\$	924,489
subsidiaries				
Others		788		44,515
Subtotal		788		969,004
Associates				
Others		171,397		312,002
Subtotal		171,397		312,002
Total	\$	172,185	\$	1,281,006
	. 1 0			

The receivables from related parties arise mainly from sale transactions. The receivables are unsecured in nature and bear no interest.

# D. Other receivables from related parties:

	December 31, 2019		December 31, 2018	
Associates	\$	204	\$	305

The other receivables from related parties arise mainly from sales of machinery and equipment and patent licensing transactions.

#### E. Payables from related parties:

	December 31, 2019			December 31, 2018		
Accounts payable:						
Associates	\$	151,677	\$	285,825		

The payables to related parties arise mainly from purchase transactions. The payables bear no interest.

#### F. Property transactions:

# (a) Purchase of machinery and equipment

	Ye	Year ended		ır ended
	December 31, 2019		Decemb	per 31, 2018
Other related parties	\$	111	\$	-
Associates		22,093		390
	\$	22,204	\$	390

#### (b) Disposal of property, plant and equipment

		Year ended			Year ended			
		December 31, 2019			December 31, 2018			2018
	Sale	Sales price Gain of disposal		Sal	es price	Gain	of disposal	
Associates	\$	132	\$	132	\$	1,836	(\$	98)

#### (3) Key management compensation

	Year ended December 31, 2019		Year ended December 31, 201	
	Decen	iber 31, 2019	Decei	nber 31, 2018
Salaries and other short-term employee benefits	\$	136,356	\$	127,237
Share-based payment		2,561		1,991
Termination benefits		32	-	<u>-</u>
Total	\$	138,949	\$	129,228

#### 8. PLEDGED ASSETS

The Group's assets pledged as collateral are as follows: (The time deposits described below are recognized as other current assets - non-cash equivalents)

	Book value				
Pledgrd assets Decer		per 31, 2019	December 31, 2018		Purpose
Bank deposits (shown in "Other assets- other")	\$	150,912	\$	280,663	Payables for bankers' acceptance
Bank deposits (Shown in "Other assets-other")		105,149		ŕ	Lease deposit, customer deposit, Collateral deposits for provisional seizure
Notes receivable		404,867		44,720	
Buildings and structures Machinery and equipment and office equipment		782,092 82,129		577,376	Long-term borrowings Long-term borrowings
	\$	1,525,149	\$	1,048,205	

# 9. <u>SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED CONTRACT</u> COMMITMENTS

A. Capital expenditure contracted for at the balance sheet date but not yet incurred is as follows:

	Decen	nber 31, 2019	Dece	ember 31, 2018
Contracted but not provided				
Property, plant and equipment	\$	779,777	\$	1,501,681

#### B. Operating lease commitments

#### Effective 2018

The Group's operating lease contracts for land, factories, dorms and automobiles are irrevocable and most of them can be renewed at market price at the end of the lease term.

The future aggregate minimum lease payments under non-cancellable operating leases are as follows:

	Decen	nber 31, 2018
Not later than one year	\$	94,706
Later than one year but not later than five years		263,156
Later than five years		473,164
Total	\$	831,026

C. On October 12, 2012, the Trustees of Boston University filed a lawsuit against the Company, alleging

patent infringement. In November 2015, the verdict of a Massachusetts federal jury for the first instance stated that the Company shall pay compensation of US\$9.3 million. However, the Company won the verdict from the United States Court of Appeals for the Federal Circuit that stated in the second instance that the alleging patent infringement is invalid on July 25, 2018.

#### 10. SIGNIFICANT DISASTER LOSS

None.

#### 11. <u>SIGNIFICANT EVENTS AFTER THE BALANCE SHEET DATE</u>

None.

#### 12. OTHERS

# (1) Capital risk management

The Group's capital management policy is established taking into account the industry characteristics, the Group's future development and changes in external environments. The Group plans the working capital, capital expenditures, investments and dividends required for the future based on the capital management policy, makes financial analysis, and examines its capital structure periodically and makes appropriate adjustments to ensure that every company within the Group may grow and operate indefinitely.

#### (2) Financial instruments

A Financial instruments by category

	Dec	ember 31, 2019	December 31, 2018
Financial assets			
Financial assets at fair value through profit or loss			
Financial assets mandatorily measured at fair value through profit or loss	\$	1,342,977	\$ 726,406
Financial assets at fair value through other comprehensive income		3,640,610	3,265,125
Designation of equity instrument			
Financial assets at amortised cost			
Cash and cash equivalents		5,252,823	5,532,509
Notes receivable		2,313,351	1,495,653
Accounts receivable		6,705,598	7,583,934
Accounts receivable due from related parties		172,185	1,281,006
Other receivables		145,596	249,964
Other receivables due from related parties		204	305
Guarantee deposits paid		11,993	98,675
Other financial assets		282,763	428,380
	\$	19,868,100	\$ 20,661,957

	December 31, 2019		Dece	ember 31, 2018
Financial liabilities				
Financial liabilities at amortised cost				
Short-term borrowings	\$	1,683,783	\$	1,874,876
Short-term notes payable		346,318		357,717
Notes payable		394,586		129,942
Accounts payable		1,534,323		2,301,209
Accounts payable to related parties		151,677		285,825
Other payables		2,503,852		3,820,103
Lease liabilities (including current portion)		1,371,449		-
Long-term borrowings (including current portion)		1,128,558		575,114
Long-term accounts payable		47,365		95,059
Guarantee deposits received		62,370		70,444
-	\$	9,224,281	\$	9,510,289

#### B. Financial risk management policies

- (a) The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The purpose of risk management is to minimise potential adverse effects arising from uncertainty on the Group's financial performance.
- (b) Risk management is carried out by treasury and finance departments of the Company under policies approved by the Board of Directors. Treasury and finance departments of the Company identifies, evaluates and hedges financial risks in close co-operation with the Group's operating units. The Board provides written principles for overall risk management, as well as written policies covering specific areas and matters, such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and non-derivative financial instruments, and investment of excess liquidity.

### C. Significant financial risks and degrees of financial risks

(a) Market risk

#### Foreign exchange risk

- i. The Group operates internationally and is exposed to exchange rate risk arising from the transactions of the Company and its subsidiaries used in various functional currency, primarily with respect to the USD, JPY and RMB. Exchange rate risk arises from future commercial transactions and recognised assets and liabilities.
- ii. Management has set up a policy to require the Group to manage their foreign exchange risk against their functional currency. The companies are required to hedge their entire foreign exchange risk exposure with the Company treasury.
- iii. The Group's businesses involve some non-functional currency operations (the functional currency of the Company and certain subsidiaries is NTD while that of other subsidiaries are USD and RMB). The information on assets and liabilities denominated in foreign currencies whose values would be materially affected by the exchange rate fluctuations is as follows:

	December 31, 2019					
				Book value		
	(in 1 n	ousands)	Exchange rate	(1n 1 n	ousands of NTD)	
(Foreign currency:						
functional currency)						
Financial assets						
Monetary items						
USD:NTD	\$	157,972	29.980	\$	4,735,998	
RMB:NTD		526,647	4.3050		2,267,213	
Non-monetary items						
USD:NTD		103,103	29.980		3,091,017	
Financial liabilities						
Monetary items						
USD:NTD		46,807	29.980		1,403,273	
RMB:NTD		238,302	4.3050		1,025,891	
			December 31, 20	018		
	Foreign	currency				
	_	ount			Book value	
		ousands)	Exchange rate		ousands of NTD)	
(Foreign currency:		<del></del>		(	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
functional currency)						
Financial assets						
Monetary items						
USD:NTD	\$	181,169	30.715	\$	5,564,607	
RMB:NTD		527,598	4.4720		2,359,418	
Non-monetary items		,			, ,	
USD:NTD		103,103	30.715		3,166,821	
Financial liabilities		,			, ,	
Monetary items						
USD:NTD		82,933	30.715		2,547,277	
RMB:NTD		156,520	4.472		699,960	

iv. Please refer to the following table for the details of unrealized exchange gain (loss) arising from significant foreign exchange variation on the monetary items held by the Group.

		Year ended December 31, 2019						
		Unr	ealized exchange	gain (loss				
	Foreign	currency						
	am	ount		В	ook value			
	(in The	ousands)	Exchange rate	(in Thou	usands of NTD)			
(Foreign currency:		_						
functional currency)								
Financial assets								
Monetary items								
USD:NTD	\$	-	29.980	(\$	114,512)			
RMB:NTD		-	4.3050	(	52,515)			
Financial liabilities								
Monetary items								
USD:NTD		-	29.980		30,328			
RMB:NTD		-	4.3050		12,842			
		Year	r ended December	31, 2018				
		Unr	ealized exchange	gain (loss	)			
	Foreign	currency		`				
	_	ount		В	ook value			
	(in The	ousands)	Exchange rate	(in Tho	usands of NTD)			
(Foreign currency:								
functional currency)								
Financial assets								
Monetary items								
USD:NTD	\$	_	30.715	\$	4,294			
RMB:NTD		-	4.4720	(	12,068)			
Financial liabilities				`	,			
Monetary items								
USD:NTD		_	30.715		7,718			
RMB:NTD		-	4.4720		1,507			

v. Analysis of foreign currency market risk arising from significant foreign exchange rariation:

Year ended December 31, 2019

	Y ear ended December 31, 2019						
		Ser	nsitivity analy	sis			
		Eff	ect on profit				
	Extent of variation		or loss		Effect on equity		
(Foreign currency:							
functional currency)							
Financial assets							
Monetary items							
USD:NTD	1%	\$	47,360	\$	-		
RMB:NTD	1%		22,672		-		
Non-monetary items							
USD:NTD	1%		-		30,910		
Financial liabilities							
Monetary items							
USD:NTD	1%		14,033		-		
RMB:NTD	1%		10,259		-		
	Yea	r end	ed December	31,	2018		
			nsitivity analy				
	-		ect on profit				
	Extent of variation	211	or loss		Effect on equity		
(Foreign currency:					• •		
functional currency)							
Financial assets							
Monetary items							
USD:NTD	1%	\$	55,646	\$	-		
RMB:NTD	1%		23,594		-		
Non-monetary items							
USD:NTD	1%		-		31,668		
Financial liabilities							
Monetary items							
USD:NTD	1%		25,473		-		
RMB:NTD	1%		7,000		-		

#### Price risk

i. The Group's equity securities, which are exposed to price risk, are the held financial assets at fair value through profit or loss, financial assets at fair value through other comprehensive income. To manage its price risk arising from investments in equity securities, the Group diversifies its portfolio. Diversification of the portfolio is done in accordance with the limits set by the Group.

ii.The Group's investments in equity securities comprise shares and open-end funds issued by the domestic companies. The prices of equity securities would change due to the change of the future value of investee companies. If the prices of these equity securities had increased/decreased by 10% with all other variables held constant, post-tax profit for the years ended December 31, 2019 and 2018 would have increased/decreased by \$134,298 and \$72,641, respectively, as a result of gains/losses on equity securities classified as at fair value through profit or loss. Other components of equity would have increased/decreased by\$364,061 and \$326,513, respectively, as a result of other

comprehensive income classified as equity investment at fair value through other comprehensive income.

#### Interest rate risk

- i. The Group's interest rate risk arises from bank deposits and long-term borrowings. Borrowings issued at variable rates expose the Group to cash flow interest rate risk which is partially offset by cash and cash equivalents held at variable rates. Borrowings issued at fixed rates expose the Group to fair value interest rate risk. The Group's borrowings at variable rate were denominated in the USD, RMB and NTD.
- ii. Based on the simulations performed on sensitivity analysis for interest rate risk, the maximum impact on post-tax profit of a 0.1% shift would be increased/decreased of \$1,798 and \$111 for the years ended December 31, 2019 and 2018, respectively. The simulation is done on a quarterly basis to ensure that the potential maximum loss is within the limit set by the management.

#### (b) Credit risk

- i. Credit risk refers to the risk of financial loss to the Group arising from default by the clients or counterparties of financial instruments on the contract obligations. The main factor is that counterparties could not repay in full the accounts receivable based on the agreed terms, and the contract cash flows of debt instruments stated at amortised cost, at fair value through profit or loss and at fair value through other comprehensive income.
- ii. The Group adopts the assumptions under IFRS 9, the default occurs when the contract payments are past due over 90 days.
- iii. The Group adopts following assumptions under IFRS 9 to assess whether there has been a significant increase in credit risk on that instrument since initial recognition: If the contract payments were past due over 30 days based on the terms, there has been a significant increase in credit risk on that instrument since initial recognition.
- iv. The following indicators are used to determine whether the credit impairment of debt instruments has occurred:
  - (i) It becomes probable that the issuer will enter bankruptcy or other financial reorganization due to their financial difficulties;
  - (ii) The disappearance of an active market for that financial asset because of financial difficulties;
  - (iii) Default or delinquency in interest or principal repayments;
  - (iv) Adverse changes in national or regional economic conditions that are expected to cause a default.
- v. The Group classifies customers' accounts receivable, contract assets and rents receivable in accordance with credit rating of customer. The Group applies the simplified approach using provision matrix, loss rate methodology to estimate expected credit loss under the provision matrix basis.
- vi. The Group wrote-off the financial assets, which cannot be reasonably expected to be recovered, after initiating recourse procedures. However, the Group will continue executing the recourse procedures to secure their rights. As of December 31, 2019 and 2018, the Group's written-off financial assets that are still under recourse procedures amounted to \$16,735 and \$16,753, respectively.
- vii. The Group used the forecast ability of Taiwan Institute of Economic Research boom observation report to adjust historical and timely information to assess the default possibility of accounts receivable and other receivables. As of December 31, 2019 and 2018, the provision matrix, loss rate methodology is as follows:

			to 30 days	31~90	•		~180 days		er 180 days		
	Not past due	F	ast due	past	due	F	oast due	1	past due		Total
December 31, 2019	<u>.</u>										
Expected loss rate	0.01%~1%	0.0	01%~5%	0.01%	~56%	0.0	1%~100%	0.0	1%~100%		
Total book value	\$ 8,495,010	\$	452,363	\$ 271	,080	\$	38,248	\$	114,031	\$	9,370,732
Loss allowance	\$ 993	\$	153	\$	229	\$	290	\$	32,132	\$	33,797
		Up	to 30 days	31~90	days	91-	~180 days	Ove	er 180 days		
	Not past due	<u>_</u> F	ast due	past	due	<u>_</u> F	oast due	1	past due		Total
December 31, 2018	_										
Expected loss rate	0.02%~1%	0.0	01%~3%	0.01%	~56%	0.0	1%~100%	0.0	1%~100%		
Total book value	\$ 9,230,578	\$	556,189	\$ 671	,379	\$	164,827	\$	46,797	\$	10,669,770
Loss allowance	\$ 1,779	\$	968	\$ 6	6,637	\$	13,959	\$	35,565	\$	58,908
		In	dividual pro	ovision	G	roup	provision		Total		
December 31, 2019	-										
Expected loss rate			100%		(	0.01%	∕₀~100%				
Total book value		\$		23,353	\$		9,347,379	9 \$	9,	370	,732
Loss allowance		\$		23,353	\$		10,444	<u>4</u> \$		33	<u>,797</u>
		In	dividual pro	ovision	Gı	roup	provision		Total		
December 31, 2018	_										
Expected loss rate			100%		(	0.01%	∕₀~100%				
Total book value		\$		34,041	\$		10,635,729	9 \$	10,	669	,770
Loss allowance		\$		34,041	\$		24,867	<u> </u>		58	,908

vii. Movements in relation to the Company applying the simplified approach to provide loss allowance for accounts receivable, and other receivables are as follows:

,		Year ended December 31, 2019					
	Accou	nts receivable Othe	er receivables				
At January 1	\$	42,838 \$	16,070				
Acquired from business		5,155	-				
Provision for impairment		40,396	10,553				
Reversal of impairment	(	65,347) (	3,498)				
Write-offs	(	12,018)	-				
Effect of exchange rate changes		352)	_				
At December 31	\$	10,672 \$	23,125				
	Year ended December 31, 2018						
	Accou	nts receivable Othe	r receivables				
At January 1 IAS 39	\$	113,138 \$	20,270				
Adjustments for retrospective application of IFRS9		12,993	_				
At January 1 IFRS 9		126,131	20,270				
Provision for impairment		25,718	79				
Reversal of impairment	(	15,904) (	4,200)				
Write-offs	Ì	92,944) (	79)				
Effect of exchange rate changes	Ì	163)	-				
At December 31	\$	42,838 \$	16,070				
anidity rick							

(c) Liquidity risk

i. Cash flow forecasting is performed in the operating entities of the Group and aggregated

by Group treasury. Group treasury monitors rolling forecasts of the Group's liquidity requirements to ensure it has sufficient cash to meet operational needs while maintaining sufficient headroom on its undrawn committed borrowing facilities at all times so that the Group does not breach borrowing limits or covenants on any of its borrowing facilities. Such forecasting takes into consideration the Group's debt financing plans, covenant compliance, compliance with internal balance sheet ratio targets and external regulatory or legal requirements.

- ii. Surplus cash are invested in interest bearing current accounts, time deposits, money market deposits and marketable securities, with appropriate maturities or sufficient liquidity to provide sufficient headroom and meet the above-mentioned forecasts. As of December 31, 2019 and 2018, the Group held money market position of \$6,595,800 and \$6,258,915, respectively, and those are expected to readily generate cash inflows for managing liquidity risk.
- iii. The table below shows analysis of the Group's non-derivative financial liabilities and netsettled or gross-settled derivative financial liabilities into relevant maturity groupings based on the remaining period at the balance sheet date to the contractual maturity date for nonderivative financial liabilities and to the expected maturity date for derivative financial liabilities. The amounts disclosed in the table are the contractual undiscounted cash flows.

Non-derivative financial liabilities:						
December 31, 2019	Les	ss than 1 year	В	Between 1 and 5 years	Between 5 and 7 years	Over 7 years
Short-term borrowings	\$	1,683,783	\$	-	\$ -	\$ -
Short-term notes and bills payable		346,318		-	-	-
Notes payable		394,586		-	-	-
Accounts payable to related parties		1,686,000		-	-	-
Other payables		2,503,852		-	-	-
Lease liabilities		98,710		296,695	120,571	1,212,735
Long-term borrowings (including current portion)		118,528		1,040,966	-	-
Long-term accounts payable		-		47,365	-	-
(including current portion)						
Other financial liabilities		61,837		-	533	-
Non-derivative financial liabilities:						
December 31, 2018	Les	ss than 1 year	_B	Between 1 and 5 years	Between 5 and 7 years	Over 7 years
Short-term borrowings	\$	1,847,876	\$	-	\$ -	\$ -
Short-term notes and bills payable		357,717		-	-	-
Notes payable		129,942		-	-	-
Accounts payable		2,587,043		-	-	-
Other payables		3,820,103		-	-	-
Long-term borrowings		171,144		414,535	-	-
(including current portion)						
Long-term accounts payable		-		95,059	-	-
(including current portion)						
Other financial liabilities		69,149		762	-	533

iv. The Group does not expect the timing of the estimated cash outflows through the maturity date analysis will be significantly earlier, nor expect the actual cash flow amount will be significantly different.

### (3) Fair value information

- A. The different levels that the inputs to valuation techniques are used to measure fair value of financial and non-financial instruments have been defined as follows:
  - Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date. A market is regarded as active where a market in which transactions for the asset or liability take place with sufficient frequency and volume to provide pricing information on an ongoing basis. The fair value of the Group's investment in listed stocks and beneficiary certificates is included in Level 1.

- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. The fair value of the Group's investment in convertible bonds and most derivative instruments is included in Level 2.
- Level 3: Unobservable inputs for the asset or liability. The fair value of the Group's investment in equity investment without active market is included in Level 3.
- B. Financial instruments not measured at fair value
  - (a) Except for those listed in the table below, the carrying amounts of cash and cash equivalents, notes receivable, accounts receivable, other receivables, refundable deposits, other financial assets, short-term borrowings, short-term notes and bills payable, notes payable, accounts payable, other payables, long-term accounts payable and guarantee deposits received are approximate to their fair values.

upprominent to their runs (united)								
••	December 31, 2019							
			Fair value					
	Book value	Level 1	Level 2	Level 3				
Financial liabilities: Long-term borrowings								
(including current portion)	\$ 1,128,558	\$ -	\$ 1,143,502	\$ -				
		Decembe	r 31, 2018					
			Fair value					
	Book value	Level 1	Level 2	Level 3				
Financial liabilities: Long-term borrowings								
(including current portion)	\$ 575,114	\$ -	\$ 577,226	\$ -				

- (b) The methods and assumptions of fair value estimate are as follows:

  Long-term borrowings: They are measured at present value, which is calculated based on the cash flow expected to be paid and discounted using a market rate prevailing at balance sheet date.
- C. The related information of financial and non-financial instruments measured at fair value by level on the basis of the nature, characteristics and risks of the assets and liabilities at December 31, 2019 and 2018 is as follows:
  - (a) The related information of natures of the assets and liabilities is as follows:

December 31, 2019	 Level 1	_	Level 2	 Level 3	 Total
Assets					
Recurring fair value measurements					
Financial assets at fair value through					
profit or loss					
Equity securities	\$ 1,142,619	\$	66	\$ 157,762	\$ 1,300,447
Beneficiary certificates	42,530		-	-	42,530
Available-for-sale financial assets					
Equity securities	 326,818		5,686	 3,308,106	 3,640,610
Total	\$ 1,511,967	\$	5,752	\$ 3,465,868	\$ 4,983,587

December 31, 2018	 Level 1		Level 2		Level 3		Total	
Assets								
Recurring fair value measurements								
Financial assets at fair value through								
profit or loss								
Equity securities	\$ 352,103	\$	7,689	\$	-	\$	359,792	
Beneficiary certificates	366,614		-		-		366,614	
Available-for-sale financial assets								
Equity securities	 335,631		9,502		2,919,992		3,265,125	
Total	\$ 1,054,348	\$	17,191	\$	2,919,992	\$	3,991,531	

- (b) The methods and assumptions the Group used to measure fair value are as follows:
  - i. The instruments the Group used market quoted prices as their fair values (that is, Level 1) are listed below by characteristics:

_	Listed shares	Closed-end fund	Open-end fund
Market quoted price	Closing price	Closing price	Net asset value

- ii. Except for financial instruments with active markets, the fair value of other financial instruments is measured by using valuation techniques or by reference to counterparty quotes. The fair value of financial instruments measured by using valuation techniques can be referred to current fair value of instruments with similar terms and characteristics in substance, discounted cash flow method or other valuation methods, including calculated by applying model using market information available at the consolidated balance sheet date.
- iii. When assessing non-standard and low-complexity financial instruments, for example, debt instruments without active market and foreign exchange swap contracts, the Group adopts valuation technique that is widely used by market participants. The inputs used in the valuation method to measure these financial instruments are normally observable in the market.
- iv. For high-complexity financial instruments, the fair value is measured by using self-developed valuation model based on the valuation method and technique widely used within the same industry. The valuation model is normally applied to derivative financial instruments, debt instruments with embedded derivatives or securitised instruments. Certain inputs used in the valuation model are not observable at market, and the Group must make reasonable estimates based on its assumptions. The effect of unobservable inputs to the valuation of financial instruments is provided in Note 12(3)A.
- v. The output of valuation model is an estimated value and the valuation technique may not be able to capture all relevant factors of the Group's financial and non-financial instruments. Therefore, the estimated value derived using valuation model is adjusted accordingly with additional inputs, for example, model risk or liquidity risk and etc. In accordance with the Group's management policies and relevant control procedures relating to the valuation models used for fair value measurement, management believes adjustment to valuation is necessary in order to reasonably represent the fair value of financial and non-financial instruments at the consolidated balance sheet. The inputs and pricing information used during valuation are carefully assessed and adjusted based on current market conditions.

(c) The following chart is the movement of Level 3 for the years ended December 31, 2019 and 2018:

	Equ	ity securities
At January 1, 2019	\$	2,919,992
Gain recognised in profit or loss		136,389
Loss recognised in other comprehensive income		334,027
Disposals in the year	(	23,903)
Additions		99,363
At December 31, 2019	\$	3,465,868
	Equ	ity securities
At January 1, 2018	\$	1,602,311
Gain recognised in profit or loss	(	232)
Loss recognised in other comprehensive income	(	617,120)
Disposals in the year	(	12,923)
Additions		46,616
Transfers into level 3		1,901,340
At December 31, 2018	\$	2,919,992

- D. The Company lost significant influence over PlayNitride Inc. and KAISTAR Lighting (Xiamen) Co., Ltd. as their shares owned by the Company were less than 20% as at March 6, 2018 and April 26, 2018, respectively. Therefore, the Company reclassified them into financial assets at fair value through other comprehensive income in accordance with IFRSs. Additionally, the Company transferred the fair values into Level 3 as there is insufficient observable market information.
- E. Because the stocks of Lustrous Technology, Ltd. is no longer publicly traded since March 1, 2017, and there is insufficient observable market information, the Company has transferred the fair value from Level 2 into Level 3.
- F. Treasury department is in charge of valuation procedures for fair value measurements being categorised within Level 3, which is to verify independent fair value of financial instruments. Such assessment is to ensure the valuation results are reasonable by applying independent information to make results close to current market conditions, confirming the resource of information is independent, reliable and in line with other resources and represented as the exercisable price, and frequently calibrating valuation model, performing back-testing, updating inputs used to the valuation model and making any other necessary adjustments to the fair value.

G. The following is the qualitative information of significant unobservable inputs and sensitivity analysis of changes in significant unobservable inputs to valuation model used in Level 3 fair value measurement:

value measur	CIIICIII.				
			Significant		
	Fair value at	Valuation	unobservable	Range	Relationship of
	December 31, 2019	technique	input	(weighted average)	inputs to fair value
Non-derivative equi	ty instrument:				
Unlisted shares	\$ 2,459,2	Market comparable companies	Price to book ratio multiple	0.79~2.96	The higher the multiple, the higher the fair value.
		companes	Discount for lack of marketability	20%~30%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	791,2	1 Market comparable companies	Price to earnings ratio multiple	16.83~17.50	The higher the multiple, the higher the fair value.
		companes	Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	215,3	98 Market comparable companies	Enterprise value to operating income ratio multiple	2.57	The higher the multiple value, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.
			Significant		
	Fair value at	Valuation	unobservable	Range	Relationship of
	December 31, 2018	technique	input	(weighted average)	inputs to fair value
Non-derivative equi	ty instrument:				
Unlisted shares	\$ 2,402,4	69 Market comparable companies	Price to book ratio multiple	0.45~2.71	The higher the multiple, the higher the fair value.
		companies	Discount for lack of marketability	20%~30%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	co		Price to earnings ratio multiple	19.30~19.39	The higher the multiple, the higher the fair value.
C		companies	Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	52,3	22 Market comparable companies	Enterprise value to operating income ratio multiple	26.11	The higher the multiple value, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.

H. The Group has carefully assessed the valuation models and assumptions used to measure fair value. However, use of different valuation models or assumptions may result in different measurement. The following is the effect of profit or loss or of other comprehensive income from financial assets and liabilities categorised within Level 3 if the inputs used to valuation models have changed:

			December 31, 2019						
			· ·	ed in profit	•	ed in other			
	Input	Change	Favourable change	Unfavourable change	Favourable change	Unfavourable change			
Financial assets									
Equity instrument	Multiple	$\pm 1\%$	\$ 1,578	(\$ 1,578)	\$ 33,081	(\$ 33,081)			
				December	r 31, 2018				
			Recognis	ed in profit	Recognis	ed in other			
			or	loss	comprehensive income				
			Favourable	Unfavourable	Favourable	Unfavourable			
	Input	Change	change	change	change	change			
Financial assets									
Equity instrument	Multiple	$\pm 1\%$	\$ -	\$ -	\$ 29,200	(\$ 29,200)			

### 13. <u>SUPPLEMENTARY DISCLOSURES</u>

### (1) Significant transactions information

- A. Loans to others: Please refer to table 1.
- B. Provision of endorsements and guarantees to others: Please refer to table 2.
- C. Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures): Please refer to table 3.
- D. Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital: Please refer to table 4.
- E. Acquisition of real estate reaching NT\$300 million or 20% of paid-in capital or more: None.
- F. Disposal of real estate reaching NT\$300 million or 20% of paid-in capital or more: None.
- G. Purchases or sales of goods from or to related parties reaching NT\$100 million or 20% of paid-in capital or more: Please refer to table 5.
- H. Receivables from related parties reaching NT\$100 million or 20% of paid-in capital or more: Please refer to table 6.
- I. Trading in derivative instruments undertaken during the reporting periods: None.
- J. Significant inter-company transactions during the reporting periods: Please refer to table 7.

### (2) <u>Information on investees</u>

Names, locations and other information of investee companies (not including investees in Mainland China): Please refer to table 8.

### (3) <u>Information on investments in Mainland China</u>

- A. Basic information: Please refer to table 9.
- B. Significant transactions, either directly or indirectly through a third area, with investee companies in the Mainland Area: Please refer to table 10.

### 14. SEGMENT INFORMATION

### (1) General information:

The Group operates business only in a single industry, primarily engaged in developing, manufacturing and sale of AlInGaP, aluminum gallium arsenide and indium gallium nitride and other epi-wafer chip and die. The Chief Operating Decision-Maker who allocates resources and assesses performance of the Group as a whole, has identified that the Group has only one reportable operating segment.

### (2) Information about segment profit or loss, assets and liabilities:

The segment information provided to the Chief Operating Decision-Maker for the reportable segments and reconciliations is as follows:

		Year ended	Year ended			
	December 31, 2019			December 31, 2018		
Revenues from external customers	\$	15,959,831	\$	20,306,412		
Segment income (loss)	(	3,937,520)	(	505,864)		
Segment income (loss) including:						
Interest income		43,975		122,283		
Interest expense	(	160,271)	(	175,678)		
Depreciation and amortisation	(	5,117,282)	(	5,025,807)		
Investment (loss) profit under equity method	(	21,383)		24,146		
Income tax (expense) benefit	(	183,418)		361,277		
Segment assets		58,730,610		62,738,642		

Impacts on the segment information in 2019 as a result of the adoption of IFRS 16, 'Leases' are provided in Note 6(8).

### (3) <u>Information on products and services</u>

Information is provided in Note 6(24).

### (4) Geographical information

Geographical information for the years ended December 31, 2019 and 2018 is as follows:

	<u>Y</u>	ear ended Dec	per 31, 2019	Y	Year ended December 31, 2018				
			Non-current				Non-current		
		Revenue		assets		Revenue	assets		
Taiwan	\$	2,757,518	\$	23,938,021	\$	3,643,086	\$	23,755,024	
China		8,988,468		5,821,971		10,923,088		6,557,203	
HK		556,523		356,632		958,101		570,364	
Korea		973,558		-		1,507,791		-	
Malaysia		1,207,758		-		1,570,836		-	
Others		1,476,006		25,553		1,703,510		24,217	
Total	\$	15,959,831	\$	30,142,177	\$	20,306,412	\$	30,906,808	

### (5) Major customer information

Major customer information of the Group for the years ended December 31, 2019 and 2018 is as follows:

	Ŋ	Year ended	•	Year ended
	Dece	ember 31, 2019	Dece	ember 31, 2018
		Revenue		Revenue
Customer A	\$	1,234,985	\$	1,716,675
Customer B	\$	1,164,134	\$	2,063,267

Expressed in thousands of NTD (Except as otherwise indicated)

				Footnote	Note 1	Note 1	Note 1	Note 2	Note 3	Note 4	Note 4
			Ceiling on total	loans granted	13,565,757	13,565,757	13,565,757	1,073,320	1,313,847	115,553	115,553
		Limit on loans	granted to a Ce	single party lo	4,521,919 \$	4,521,919	4,521,919	858,656	875,898	115,553	115,553
		Lin	gy	Value si	<del>ss</del>  <del>ss</del>	•		ı		•	1
				Item	None	None	None	None	None	None	None
	Allowance	for	doubtful	accounts		•	,	1	•	•	•
		Reason for	short-term	financing	Working capital	Working capital	Working capital	Working capital	Working capital	Working capital	Working capital
Amount	Jo	transactions	with the	borrower		•	•	•	•	•	•
			Interest Nature of	loan	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing
			Interest	rate	4.20%	5.53%	1.25%	5.00%	4.35%	3.02%	3.30%
		Actual	amount	drawn down	\$ 86,100	ı	ı	ı	172,200	•	95,936
		Balance at	December 31,	2019	430,500	861,000	300,000	1	344,400	•	95,936
Maximum outstanding	balance during	Is a the year ended	related December 31,	2019	\$ 000,678 \$	1,824,000	300,000	460,300	368,240	15,800	101,120
	_	Is a	related	party	<b>&gt;</b>	>	>	<b>&gt;</b>	Y	>	<b>&gt;</b>
		General	ledger	account	Other receivables-related	Other receivables- related parties	Other receivables- related parties	Other receivables-related	Other receivables- related	Other receivables-	Other receivables- related parties
				Borrower	Jiangsu Canyang Optoelectronics Ltd	Episky Corporation (Xiamen) Ltd.	Yen-Rich Technology Corporation.	Jiangsu Canyang Optoelectronics Ltd	Jiangsu Canyang Optoelectronics Ltd	Ecoled Venture Co., Limited	Lighting Inrestment Corporation.
				Creditor	Jiangsu Canyang Epistar Corporation Optoelectronics Ltd	Episky Epistar Corporation Corporation (Xiannen) Lt	Yen-Rich Epistar Corporation Technology Corporation	Episky Corporation Jiangsu Canyang (Xiamen) Ltd. Ltd	Epicrystal (Changzhou) Co., Ltd.	Yen-Rich Opto (Hong Kong) Limited	Yen-Rich Opto (Hong Kong) Limited
				No.	0	0	0	-	7	ю	ε

Note 1: In accordance with Epistar Corporation's Procedures for Provision of Loans: the limit on loans granted to a single party is 10% of its net equity, and the ceiling on total loans granted is 50% of its net equity.

Note 2: In accordance with Episky Corporation (Xiamen) Ltd.'s Procedures for Provision of Loans: the limit on loans granted to a single party is 20% of its net equity, and the ceiling on total loans granted is 30% of its net equity.

Note 3: In accordance with Epicrystal (Changzhou) Co., Ltd.'s Procedures for Provision of Loans: the limit on loans granted to a single party is 40% of its net equity, and the ceiling on total loans granted is 40% of its net equity.

Note 4: In accordance with Yen-Rich Opto (Hong Kong) Limited's Procedures for Provision of Loans: the limit on loans granted to a single party is 40% of its net equity.

Expressed in thousands of NTD (Except as otherwise indicated)

endorsed/guaranteed Party being

		Footnote				
Provision of endorsements/ guarantees to	the party in Mainland	China	<b>&gt;</b>	¥	z	z
Ceiling on Provision of Provision of Provision of total amount of endorsements/ endorsements/ endorsements/ guarantees by guarantees to	subsidiary to the party in parent Mainland	company	z	z	Z	z
Provision of endorsements/ guarantees by	parent company to	subsidiary	<b>&gt;</b>	*	>	>
Ceiling on total amount of endorsements/	guarantees provided	(Note 3)	\$ 9,043,838	9,043,838	9,043,838	9,043,838
Ratio of accumulated endorsement/ guarantee amount to net	asset value of the endorser/	guarantor company	5.57	0.86	1.55	0.33
·36	guarantees secured with	collateral	<del>S</del>	ı	1	•
· :	Actual	drawn down	2,518,320 \$ 953,164	206,640	175,658	•
Outstanding endorsement/ guarantee	amount at December 31,	2019	3, 2,518,320	389,740	006,969	149,900
Maximum outstanding endorsement/	amount as of December 31,	2019	4,551,550 \$	663,600	706,950	158,000
	guarantees provided for a	single party	\$ 4,521,919 \$ 4,551	4,521,919	4,521,919	4,521,919
Relationship with the	endorser/ guarantor	(Note 2)	က	3	ю	ю
		Company name	Episky Corp.(Xiamen) Ltd.	Jiangsu Canyang Optoelectronics Ltd	Unikorn Semiconductor Corporation	Yen-Rich Technology Corporation.
	Endorser/	guarantor	Epistar Corporation	Epistar Corporation	Unikorn Epistar Corporation Semiconductor Corporation	Yen-Rich Epistar Corporation Technology Corporation
7	Number (Note	1)	0	0	0	0

Note 1: The numbers filled in for the endorsements/guarantees provided by the Company or subsidiaries are as follows:

(1) The Company is '0'.

(2) The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between the endorser/guarantor and the party being endorsed/guaranteed is classified into the following six categories; fill in the number of category each case belongs to:

Having business relationship.
 The endorser/guarantor parent company owns directly more than 50% voting shares of the endorsed/guaranteed company.
 The endorser/guarantor parent company and its subsidiaries jointly own more than 50% voting shares of the endorser/guarantor subsidiary.
 The endorser/guaranteed parent company directly owns more than 50% voting shares of the endorser/guarantor subsidiary.
 Mutual guarantee of the trade as required by the construction contract.
 Mutual guarantee of the trade as required by the construction contract.
 Due to joint venture, each shareholder provides endorsements/guarantees to the endorsed/guarantees is 20% of the Company's net assets, and the limit on endorsements/guarantees to a single party is 10% of its net

# EPISTAR CORPORATION AND SUBSIDIARIES Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures) December 31, 2019

Expressed in thousands of NTD (Except as otherwise indicated)			Footnote									
Expressed in (Except as o			Fair value	\$ 2,143	1,748	148	4,587	270,562	157,762	791,211	•	60,109
	019		Ownership (%)	17.07	7.50	10.00	7.45	12.24	12.57	10.00	17.53	3.06
	As of December 31, 2019		Book value	\$ 2,143	1,748	148	4,587	270,562	157,762	791,211	1	60,109
	¥		Number of shares	140	120,000	1,000	92,523	1,339,235	9,561,340	11,000,000	141,730	6,340,628
December 31, 2019		I	General ledger account	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current financial assets at fair value through profit or loss	Non-current investments in equity instruments at fair value through other comprehensive income	Non-current financial assets at fair value through profit or loss	Non-current investments in equity instruments at fair value through other comprehensive income
		Relationship with the	securities issuer	None	None	None	None	None	None	None	None	None
			Marketable securities	E&E Japan Co.Ltd. (Stock)	NATEC CORPORATION (Stock)	Esleds Co.,Ltd. (Stock)	Lynk Labs,Inc. (Stock)	Advanced Photoelectronic Technology Limited (Stock)	Chi Lin Optoelectronies Co., Ltd. (Stock)	Dominant Opto Technologies Sdn. Bhd. (Stock)	POWERLIGHTEC CO., LTD (Stock)	Crystalwise Technology Inc. (Stock)
Table 3			Securities held by	Epistar Corporation	Epistar Corporation	Epistar Corporation	Epistar Corporation	Epistar Corporation				

				As	As of December 31, 2019	19		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Epistar Corporation	XENIO CORPORATION (stock)	None	Non-current financial assets at fair value through profit or loss	7,878		9	- - -	
Epistar Corporation	Edison Opto Corp. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	9,424,000	124,868	7.54	\$ 124,868	
Epistar Corporation	Phecda Technology Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	000'009		2.11	•	
Epistar Corporation	Elit Fine Ceramics Co., Ltd. (Stock)	None	Non-current financial assets at fair value through profit or loss	2,200,000		4.68	ı	
Epistar Corporation	Nanocrystal Technology Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	6,000,000	•	11.11	1	
Epistar Corporation	PlayNitride Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	4,568,669	210,461	12.74	210,461	
Epistar Corporation	OSTENDO TECHNOLOGIES,INC. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	67,500		4.50	•	
Epistar Corporation	Global Communication semiconductors LLC (Stock)	None	Current financial assets at fair value through profit or loss	3,627,000	249,900	3.99	249,900	
Epistar JV Holding (BVI) Co.,Ltd.	Everlight electronic(Fujian) Co.,Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash USD2,500,000	44,223	10.00	44,223	
Epistar JV Holding (BVI) Co.,Ltd.	KAISTAR Lighting (Xiamen) Co.,Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash USD48,000,000	1,428,696	17.65	1,428,696	

				As	As of December 31, 2019	919		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Epistar JV Holding (BVI) Co.,Ltd.	Global Communication semiconductors(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	2,750,000 \$		3.03	\$ 151,039	
Episky Corp.(Xiamen) Ltd.	China Firstar Optoelectronic Materials Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash RMB7,500,000	22,320	15.00	Unlisted company, no comparable market price available	
Episky Corp.(Xiamen) Ltd.	APT Electronics Co., Ltd.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	4,678,240	50,317	1.14	Unlisted company, no comparable market price available	
Episky Corp.(Xiamen) Ltd.	China Crystal Technologies Co.,Ltd.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	8,064,516	29,070	4.08	Unlisted company, no comparable market price available	
Lighting Investment Corp.	Advanced Photoelectronic Technology Limited (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	562,018	113,543	5.14	113,543	
Lighting Investment Corp.	Oree Advanced Illumination Solutions, Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	79,407	•	5.00	1	
Lighting Investment Corp.	Lustrous Technology, Ltd. (Stock)	None	Non-current financial assets at fair value through profit or loss	266,892	•	8.99	•	
Lighting Investment Corp.	TERA XTAL TECHNOLOGY CORPORATION (Stock)	None	Non-current financial assets at fair value through profit or loss	795,000	•	0.42	•	
Lighting Investment Corp.	FormoLight Technologies Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	2,038,230	9,728	10.00	9,728	
Lighting Investment Corp.	XENIO CORPORATION (Stock)	None	Non-current financial assets at fair value through profit or loss	16,462	•	0.13	1	

				As	As of December 31, 2019	19		
Securities held by	Manketahle securities	Relationship with the	General ledger account	Nimber of shares	Rook value	Oxmershin (%)	Fair value	Footnote
Lighting Investment Corp.	Jojnt Power eXponent, Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,250,000 \$	5,000	10	\$ 5,000	200000
Lighting Investment Corp.	Edison Opto Corp. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	10,705,000	141,841	8.56	141,841	
Lighting Investment Corp.	Rigidtech Microelectronics Cops. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,532,500	5,686	2.14	5,686	
Lighting Investment Corp.	Le Dimond Opto Corporation (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,100,000	5,643	16.92	5,643	
Lighting Investment Corp.	LEDLITEK Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	20,000	62,498	6.20	62,498	
Lighting Investment Corp.	De-an Venture Capoital Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	2,000,000	20,127	10.77	20,127	
Lighting Investment Corp.	iReach Corporation. (Stock)	Investee company accounted for under the equity method of the Company	Non-current investments in equity instruments at fair value through other comprehensive income	150,000	759	1.67	759	
Lighting Investment Corp.	Tekcore Co., Ltd. (Stock)	Investee company accounted for under the equity method of the Company	Current financial assets at fair value through profit or loss	2,616,932	12,928	2.72	12,928	
Lighting Investment Corp.	Edison Opto Corp. (Stock)	None	Current financial assets at fair value through profit or loss	5,851,182	77,528	4.68	77,528	
Lighting Investment Corp.	Epistar Corporation (Stock)	Parent company	Current financial assets at fair value through profit or loss	2,564,755	82,970	0.24	82,970	Note

				4	As of December 31, 2019	019		
		Relationship with the						
Securities held by	Marketable securities	securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Lighting Investment Corp.	Rigidtech Microelectronics Corp. (Stock)	None	Current financial assets at fair value through profit or loss	17,753	99	0.02	99	
Lighting Investment Corp.	Global Communication semiconductors LLC (Stock)	None	Current financial assets at fair value through profit or loss	2,748,000	189,337	3.03	189,337	
Lighting Investment Corp.	Taishin 1699 Money Market Fund (Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	2,588,671	35,165	N/A	35,165	
Lighting Investment Ltd.	LEDLITEK Co.,LTD. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	41,500	51,873	5.15	51,873	
Lighting Investment Ltd.	Verticle Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	582,983	1	3.00	ı	
Lighting Investment Ltd.	Achrolux Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	987,500	1	6.91	ı	
Lighting Investment Ltd.	PlayNitride Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	778,541	35,864	2.17	35,864	
Lighting Investment Ltd.	Advanced Photoelectronic Technology Limited.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	200,000	40,405	1.83	40,405	
Full Star Enterprises Limited	Ufeco Technology Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	Cash USD250,000	•	10.00	1	

7. Port.	_	2.31 115,339	8.97 67,526	7.90 9,139	4.53 283,386	1.27 63,162	N/A 7,063	N/A 301	2.50 1,252
As of December 31, 2019	Ownersnip 540	115,339	67,526	9,139	283,386	63,162	7,063	301	1,252
Mr. machan af a hange		s at 2,100,000 fit	nts 17,741,935 at at eer ne	nts 377,358 at ar contract one	s at 4,113,000 fft	s at 1,150,000 .fri	s at 680,537 ıfit	s at 18,454	nts 150,000 at
Relationship with the		None Current financial assets at fair value through profit or loss	None Non-current investments in equity instruments at fair value through other comprehensive income	None Non-current investments in equity instruments at fair value through other comprehensive income	None Current financial assets at fair value through profit or loss	None Current financial assets at fair value through profit or loss	None Current financial assets at fair value through profit or loss	None Current financial assets at fair value through profit or loss	None Non-current investments in equity instruments at
Relations		Global Communication Semiconductors N LLC.(Beneficiary certificates)	China Crystal Technologies Co.,Ltd.(Stock)	OEPIC SEMICONDUCTORS,INC.(Stock)	Global Communication seiconductors LLC(Stock)	Global Communication Semiconductors LLC.(Beneficiary certificates)	Franklin Templeton Sinoam Money Market Fund(Beneficiary certificates)	Hua Nan Phoenix Money Market Fund(Beneficiary certificates)	ISON Corporation(Stock)
Committee hald by	Securities read by Full Star Enterprises Limited	Full Star Enterprises Limited	HUGA Holding (SAMOA) Ltd.	HUGA Holding (SAMOA) Ltd.	Yen-Rich Technology Corporation.	Yen-Rich Opto (Hong Kong) Limited	AllureLux Corporation	AllureLux Corporation	ProLight Opto Technology Corporation.

Note: Shown as treasury stocks of Epistar Corporation.

EPISTAR CORPORATION AND SUBSIDIARIES

Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital

Year ended December 31, 2019

Table 4													Expressed in thousands of NTD (Except as otherwise indicated)	NTD cated)
					Balance as at Janua	as at January 1, 2019 (Note)	Addition			Disposal	_		Balance as at December 31, 2019 (Note)	.31,
Invector	Marketable	General	Counternorty	Relationship with the	Number of charac	Amount	Number of charge	Amount	Number of change	Solling price	Book value	Gain (loss) on	Nimber of charse	, misona
EPISKY Corporation (Changzhou)	CR Yuanta Money Market Fund B Class(Beneficiary certificates)	Financ fair va profit	- Country of the Coun	1		-	36,500,000	\$ 157,133	36,500,000	\$ 157,685	8	\$ 552	9-7	-
Epicrystal Corporation (Changzhou) Ltd.	CR Yuanta Money Market Fund B Class(Beneficiary certificates)	CR Yuanta Money Financial assets at Market Fund B fair value through Class(Beneficiary profit or loss certificates)		Y Y	·	1	157,800,000	679,329	157,800,000	681,905	679,329	2,576	•	1
Epistar Corporation	CTBC Hwa-win Money Market Fund	Financial assets at fair value through profit or loss	1	NA	1	•	28,567,808	315,000	28,567,808	315,110	315,000	110		ı
Epistar Corporation	Taishin 1699 Money Market Fund	Financial assets at fair value through	,	NA			30,666,839	415,000	30,666,839	415,244	415,000	244		
Epistar Corporation	Jin Sun Moeney Market Fund	Financial assets at fair value through profit or loss		NA	•	•	38,980,503	578,000	38,980,503	578,448	578,000	448		
Epistar Corporation	Prudential Financial Money Market Fund	Financial assets at fair value through profit or loss	1	NA		1	22,803,397	361,000	22,803,397	361,269	361,000	269	•	ı
Epistar Corporation	FSITC Taiwan Money Market Fund	Financial assets at fair value through profit or loss		NA	•	1	19,923,250	305,000	19,923,250	305,187	305,000	187		ı
Yen-Rich Technology Corporation.	Taishin 1699 Money Market Fund	Financial assets at fair value through profit or loss		NA	•	1	22,911,086	310,000	22,911,086	310,265	310,000	265	•	
Yen-Rich Technology Corporation.	FSITC Taiwan Money Market Fund	Financial assets at fair value through profit or loss		N	•	1	23,517,813	360,000	23,517,813	360,363	360,000	363	•	1
Epistar Corporation	Yen-Rich Technology Corporation.	Investments accounted for using equity method		Subsidiary	•	•	•	918,728	•	•	•	•	- 91	918,728

Note 1: The balance consists gain on valuation of financial assets.

### EPISTAR CORPORATION AND SUBSIDIARIES

Purchases or sales of goods from or to related parties reaching NT\$100 million or 20% of paid-in capital or more

Year ended December 31, 2019

Expressed in thousands of NTD (Except as otherwise indicated)

Table 5

Footnote S Differences in transaction terms Notes/accounts receivable (payable) 12 notes/accounts Percentage of receivable (payable) 71,314 87,845 83,183 86,508 775,081 335,714 Balance Credit term Normal Normal Normal Normal Normal Normal Normal Unit price Z/A N/A N/A 1 180 days after N/A N/A N/A N/Anext month-end next month-end next month-end 5 150 days after 11 180 days after 6 180 days after 2 120 days after Credit term 1 90 days after 4 90 days after month-end month-end month-end month-end closing closing closing closing closing closing closing total purchases Percentage of (sales) Transaction 179,599) 230,511) 184,669) 1,425,371) 768,584) 449,614) 633,080) Amount S  $\overline{\phantom{a}}$  $\overline{\phantom{a}}$ Purchases (sales) Sales Sales Sales Sales Sales Sales Sales Subsidiary of the Company accounted for using equity The Company's indirectly owned subsidiary method by the Company's The Company's indirectly The Company's indirectly The Company's indirectly Director of the Company Relationship with the Investee company owned subsidiary owned subsidiary owned subsidiary counterparty subsidiary Luxlite (Shenzhen) Corporation Limited Everlight Electronics Co., Ltd Episky Corp.(Xiamen) Ltd. Counterparty Epicrystal Corporation (Changzhou) Ltd. Yen-Rich Technology Optoelectronics Ltd. and its subsidiaries LEDAZ Co., Ltd Jiangsu Canyang Corporation. Purchaser/seller Epistar Corporation 
		"		Tra	Transaction	Difference	Differences in transaction terms	Notes/ac	Notes/accounts receivable (payable)	ble (payable)	
									Pe	Percentage of total	
		Relationshin with the	Durchosas		Percentage of				lou ,	notes/accounts	
Purchaser/seller	Counterparty	counterparty	(sales)	Amount		Credit term Unit price	Credit term	Bal	Balance		Footnote
Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	The Company's indirectly owned subsidiary	Purchases	\$ 378,190	5 30 m	after N,	ž	<b>\$</b>	38,419)	7	
Epistar Corporation	Episky Corp. (Xiamen) Ltd.	The Company's indirectly owned subsidiary	Purchases	287,519	9 4 60 days after next month-end closing	after N/A nth-end	Normal	$\smile$	50,045)	e	
Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	The Company's indirectly owned subsidiary	Purchases	1,230,596	6 17 150 days after month-end closing	after N/A nd	Normal	$\smile$	497,916)	28	
Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	Note 1	Sales	196,254)	4) 33 90 days after month-end closing	after N/A nd	Normal		78,196	36	
Yen-Rich Technology Corporation.	Epistar Corporation	Subsidiary of the Company	Purchases	230,511	1 38 120 days after month-end closing	after N/A nd	Normal	$\smile$	86,508)	37	
Jiangsu Canyang Optoeleetronies Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales	378,190)	39 30 days after month-end closing	after N/A nd	Normal		38,419	9	
Jiangsu Canyang Optoelectronics Ltd.	Episky Corp. (Xiamen) Ltd.	Note 1	Sales	419,324)	4) 43 90 days after month-end closing	after N/A nd	Normal		146,164	22	
Jiangsu Canyang Optoelectronies Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note 1	Sales	228,902)	2) 23 90 days after month-end closing	after N/A nd	Normal		17,453	က	
Jiangsu Canyang Optoelectronics Ltd.	Epistar Cotporation	The Company's indirectly owned subsidiary	Purchases	184,669	9 18 180 days after month-end closing	after N/A nd	Normal	$\smile$	87,845)	46	

				Transaction	action	Differences ir	Differences in transaction terms	i	Notes/accounts receivable (payable)	tble (payable)
									ď	Percentage of total
		:			Percentage of				)u	notes/accounts
Purchaser/seller	Counternarty	Relationship with the	Purchases (sales)	Amount	total purchases  (sales)  Credit term	I Init price	Cradit term	ď	Ralance	receivable Footnote
Jiangsu Canyang Optoelectronics Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note 1	Purchases \$		20 90 m	Z .	Normal	\$	76,311)	40
Luxlite (Shenzhen) Corporation Limited	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	1,425,371	44 180 days after next month-end closing	fter N/A h-end	Normal	$\overline{}$	775,081)	47
Luxlite (Shenzhen) Corporation Limited	Episky Corp.(Xiamen) Ltd.	Note I	Purchases	1,806,330	56 120 days after month-end closing	fler N/A	Normal	$\overline{}$	856,519)	52
Episky Corp.(Xiamen) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales (	287,519)	9 60 days after next month-end closing	ter N/A h-end	Normal		50,045	2
Episky Corp.(Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	Note 1	Sales (	1,806,330)	55 120 days after month-end closing	fler N/A	Normal		856,519	39
Episky Corp.(Xiamen) Ltd.	Jiangsu Canyang Optoeleetronics Ltd.	The Company's indirectly owned subsidiary	Purchases	419,324	15 90 days after month-end closing	ter N/A	Normal	$\overline{}$	146,164)	Ξ
Episky Corp.(Xiamen) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	768,584	28 180 days after next month-end closing	fter N/A h-end	Normal	$\overline{}$	335,714)	24
Episky Corp.(Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note I	Purchases	1,081,074	40 90 days after month-end closing	ter N/A	Normal	$\overline{}$	943,635)	89
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 1	Sales (	201,471)	9 90 days after month-end closing	ler N/A	Normal		76,311	4

		•		Tr	Transaction	Differences in transaction terms Notes/accounts receivable (payable)	tion terms	Notes/accounts rece	eivable (payable)	
									Percentage of	
									total	
					Percentage of				notes/accounts	
		Relationship with the	Purchases		total purchases				receivable	
Purchaser/seller	Counterparty	counterparty	(sales)	Amount	(sales) Credit term	Unit price Cre	Credit term	Balance	(payable) Footnote	as l
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales	(\$ 1,230,596)	6) 53 150 days after month-end closing	N/A Normal	la J	\$ 497,916	24	
Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	Note 1	Sales	( 1,081,074)	4) 46 90 days after month-end closing	N/A Normal	la J	943,635	46	
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 1	Purchases	228,902	14 90 days after month-end closing	N/A Normal	al	( 17,453)	ю	
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	449,614	14 27 90 days after month-end closing	N/A Normal	la J	( 83,183)	13	
ProLight Opto Technology Corporation	Shanghai Welight Electronic Co., LTD.	Note 1	Sales	( 170,826)	6) 38 120 days after month-end closing	N/A Normal	al	167,605	27	
Shanghai Welight Electronic C LTD.	Shanghai Welight Electronic Co., ProLight Opto Technology LTD.	Note 1	Purchases	170,826	26 99 120 days after month-end closing	N/A Normal	al	( 167,605)	100	

Note 1: Investee company accounted for under the equity method directly and indirectly.

EPISTAR CORPORATION AND SUBSIDIARIES

Receivables from related parties reaching NT\$100 million or 20% of paid-in capital or more

December 31, 2019

Table 6			December 51, 2019	51, 2019					Expressed in thousands of NTD (Except as otherwise indicated)	usands of NTD wise indicated)
		Palationshin	Balance as at December 31, 2019	ıber 31, 2019			Overdue receivables	səlc	Amount collected	
Condition	the consolution of	with the		11	E F	É		Action	subsequent to the	Allowance for
Cieditol	Counciparty	counterparty	Accounts recei	uner receivable	1 Otal	Turnover rate	Amount	taken	Daiance succi date	doubtini debts
Epistar Corporation	Yen-Rich Technology Corporation.	Subsidiary of the Company	86,508	\$ 37,537 <b>\$</b>	124,045	3.72	1,958	1	22,144	· ·
Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	The Company's indirectly owned subsidiary	87,845	231,137	318,982	0.56	131,255	1	15,635	•
Epistar Corporation	Luxlite (Shenzhen) Corporation Limited	The Company's indirectly owned subsidiary	775,081	096	776,041	2.15	14	1	122,207	
Epistar Corporation	Episky Corp.(Xiamen) Ltd.	The Company's indirectly owned subsidiary	335,714	34,368	370,082	1.13	25,049	•	55,035	1
Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	The Company's indirectly owned subsidiary	83,183	23,060	106,243	4.10	350	•	24,831	1
Epistar Corporation	Unikorn Semiconductor Corporation	Subsidiary of the Company	6,116	106,577	112,693	1.08	7,351	1	8,821	
Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	Note 2	78,196		78,196	5.02	23,170	1	40,330	1
Episky Corp.(Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	Note 2	856,519	•	856,519	2.03	267,865	1	43,050	•
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 2	76,311	174,109	250,420	0.65	312	ı	573	•
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	497,916	909	498,522	3.84	92	1	108,839	1

	Allowance for	doubtful debts	€	•
betoell on turne A	subsequent to the Allowance for	balance sheet date doubtful debts	•	37,159
səles	Action	taken	•	1
Overdue receivables		Amount	619,838	•
		Turnover rate	1.86	2.04
		Total	944,826	167,605
r 31, 2019		ther receivable	1,191 \$ 944,826	1
Balance as at December 31, 2019		ccounts receivable Other receivable Total Turnover rate	943,635 \$	167,605
	d-	A	€9	
Dolotions	with the	counterparty	Note 2	Note 2
		Counterparty	Episky Corp.(Xiamen) Ltd.	
		Creditor	Epicrystal Corporation (Changzhou) Ltd.	

Note 1: The Company endeavored to purpose the overdue amount. Epistar has receive \$1,519 \cdot \$1,647 \cdot \$14 and \$244 from Yen-Rich \cdot Jiangsu Canyan \cdot Luxlite and Epicrystal, respectively; Yen-Rich has receive \$23,170 from LEDAZ respective; Episky(xiamen) has receive \$43,050 from Luxlite respectively; Epicrystal has receive \$312 and \$92 from Jiangsu Canyan and Epistar respectively.

ProLight Opto Technology Corporation Shanghai Welight Electronic Co., LTD.

Note 2: Investee company accounted for under the equity method directly and indirectly.

## EPISTAR CORPORATION AND SUBSIDIARIES

Significant inter-company transactions during the reporting periods

Year ended December 31, 2019

Table 7

Expressed in thousands of NTD

operating revenues or total (Except as otherwise indicated) 1.16 4.82 2.82 1.44 8.93 2.37 1.80 consolidated total assets (Note 3) Percentage of Conducted in the ordinary course of business with terms similar to those with third course of business with terms similar to those with third course of business with terms similar to those with third course of business with terms similar to those with third course of business with terms Conducted in the ordinary Conducted in the ordinary Conducted in the ordinary similar to those with third similar to those with third Conducted in the ordinary 378,190 Conducted in the ordinary 287,519 Conducted in the ordinary Conducted in the ordinary similar to those with third similar to those with third Transaction terms parties parties parties Transaction 768,584 449,614 230,511 184,669 1,425,371 Amount S Cost of goods sold Cost of goods sold General ledger account Sales Sales Sales Sales Sales Sales Relationship (Note 2) Epicrystal Corporation (Changzhou) Ltd. Yen-Rich Technology Corporation. Luxlite (Shenzhen) Corporation Limited Counterparty Episky Corp.(Xiamen) Ltd. Episky Corp.(Xiamen) Ltd. Optoelectronics Ltd. Jiangsu Canyang Optoelectronics Ltd. LEDAZ Co., Ltd Jiangsu Canyang Company name Epistar Corporation Number (Note 1)

parties

0

0

0

0

0

0

0

mber ote 1)	Company name	Counterparty	Relationship (Note 2)	General ledger account	Amount	Transaction terms	retreenage or consolidated total operating revenues or total assets (Note 3)
	Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	-	S Cost of goods sold		Conducted in the ordinary course of business with terms similar to those with third parties	7.71
	Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	-	Accounts receivable	87,845	Conducted in the ordinary course of business with terms similar to those with third parties	0.15
	Epistar Corporation	Luxlite (Shenzhen) Corporation Limited	-	Accounts receivable	775,081	Conducted in the ordinary course of business with terms similar to those with third parties	1.32
	Epistar Corporation	Episky Corp.(Xiamen) Ltd.	-	Accounts receivable	335,714	Conducted in the ordinary course of business with terms similar to those with third parties	0.57
	Epistar Corporation	LEDAZ Co., Ltd	-	Accounts payable	148,416	Conducted in the ordinary course of business with terms similar to those with third parties	0.25
	Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	-	Accounts payable	497,916	Conducted in the ordinary course of business with terms similar to those with third parties	0.85
	Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	-	Other receivable	231,137	Based on contract terms	0.39
	Epistar Corporation	Unikorn Semiconductor Corporation	ю	Other receivable	106,577	Conducted in the ordinary course of business with terms similar to those with third parties	0.18
	Episky Com (Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	٣	Sales	1,806,330	Conducted in the ordinary course of business with terms similar to those with third parties	11.32

Transaction

5			Doloti osechis			•	Percentage of consolidated total
nber te 1)	Company name	Counterparty	Kelationship (Note 2)	General ledger account	Amount	O Transaction terms	operating revenues or total assets (Note 3)
_	Episky Corp.(Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	ю	S Accounts receivable	856,519	Conducted in the ordinary course of business with terms similar to those with third parties	1.46
6)	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	က	Sales	201,471	Conducted in the ordinary course of business with terms similar to those with third parties	1.26
6)	Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	ю	Sales	1,081,074	Conducted in the ordinary course of business with terms similar to those with third parties	6.77
6)	Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	ro	Accounts receivable	943,635	Conducted in the ordinary course of business with terms similar to those with third parties	1.61
61	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronies Ltd.	m	Other receivable	174,109	Based on contract terms	0.30
	Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	m	Sales	196,254	Conducted in the ordinary course of business with terms similar to those with third parties	1.23
	Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	ю	Accounts receivable	78,196	Conducted in the ordinary course of business with terms similar to those with third parties	0.13
	Jiangsu Canyang Optoelectronics Ltd.	Episky Corp.(Xiamen) Ltd.	ю	Sales	419,324	Conducted in the ordinary course of business with terms similar to those with third parties	2.63
-	Jiangsu Canyang Optoelectronics Ltd.	Epicrystal Corporation (Changzhou) Ltd.	m	Sales	228,902	Conducted in the ordinary course of business with terms similar to those with third parties	1.43

Transaction

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Ξ.
Transac

Percentage of consolidated total operating revenues or total assets (Note 3)	0.03	0.00	1.07	0.29
o Transaction terms	17,453 Conducted in the ordinary course of business with terms similar to those with third parties	416 Conducted in the ordinary course of business with terms similar to those with third parties	770,826 Conducted in the ordinary course of business with terms similar to those with third parties	167,605 Conducted in the ordinary course of business with terms similar to those with third parties
Amount	17,453	416	170,826	167,605
General ledger account	S Accounts receivable	Processing Fees	Sales	Accounts receivable
Relationship (Note 2)	က	ĸ	ĸ	ĸ
Counterparty	Epicrystal Corporation (Changzhou) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Shanghai Weilight Electomic Co., LTD.	Shanghai Weilight Electomic Co., LTD.
Company name	Jiangsu Canyang Optoelectronics Ltd.	Jiangsu Canyang Optoelectronies Ltd.	ProLight Opto Technology Corporation	ProLight Opto Technology Corporation
Number (Note 1)	4	4	Ś	'n

Note 1: Parent company is '0'. The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between transaction company and counterparty is classified into the following three categories; fill in the number of category each case belongs to (If transactions between parent company and subsidiaries or between subsidiaries refer to the same transaction, it is not required to disclose twice.

For example, if the parent company has already disclosed its transaction with a subsidiary, then the subsidiary is not required to disclose the transaction; for

transactions between two subsidiaries, if one of the subsidiaries has disclosed the transaction, then the other is not required to disclose the transaction.):

(1) Parent company to subsidiary.

Subsidiary to parent company.
 Subsidiary to subsidiary.
 Subsidiary to subsidiary to subsidiary.
 Note 3: Regarding percentage of transaction amount to consolidated total operating revenues or total assets, it is computed based on period-end balance of transaction to consolidated total assets for balance sheet accounts and based on accumulated transaction amount for the period to consolidated total

Note 4: Disclosure of the transactions over 100 million New Taiwan dollars only and operating revenues for income statement accounts.

the related party transactions for counterparty are not disclosed.

EPISTAR CORPORATION AND SUBSIDIARIES

Information on investees

Year ended December 31, 2019

Table 8

Expressed in thousands of NTD (Except as otherwise indicated)

Footnote	ii 55 Co	2019 2019	11,469 \$ 11,469	19,736 10,261 Note 1		666,350) ( 766,532)				1
er 31, 2019	Net profit (loss) of the investee for the year ended December	Book value 31, 2019	s 48,974 s 11,46	- 19,73		9,030,452 ( 666,35				
Shares held as at December 31, 2019	Number of shares Ownership		7,000,000 100.00 \$	0.00		48,278 100.00				
Initial investment amount	Balance as at Balance as at December 31,		70,000 \$ 70,000	- 82,348	14 960 129 14 960 129					
	Main business	activities	\$ Packaging, module design, manafacturing and sales of LED	Sales of LED lighting facilities		Professional investment	Professional investment Professional investment	Professional investment Professional investment Investment holding, sales of electronic components	Professional investment Professional investment Investment holding; sales of electronic components Manufacturing and sales of electronic components	Professional investment Professional investment Investment holding, sales of electronic components Manufacturing and sales of electronic components Professional investment
		Investee Location	iReach Corporation Taiwan	Ecoled Venture Co., Limited Hong Kong		Epistar JV Holding (BVI) British Virgin Co.,Ltd. Islands	V Holding (BVI)  Enterprises Limited	V Holding (BVI)  Enterprises Limited ntures Co., Limited	77	-
		Investor	Epistar Corporation	Epistar Corporation		Epistar Corporation	Epistar Corporation Epistar Corporation	Epistar Corporation Epistar Corporation Epistar Corporation	Epistar Corporation  Epistar Corporation  Epistar Corporation	Epistar Corporation Epistar Corporation Epistar Corporation Epistar Corporation

				Initial investment amount	nt amount	Shares held a	Shares held as at December 31, 2019	11, 2019		ш,	Footnote
				Balance as at	Balance as at		;			Investment income (loss) recognised by the Company for the year ended	
Investor	Investee	Location	Main business activities	December 31, 2019	December 31, 2018	Number of shares (Note)	Ownership (%)	e Book value	ended December 1 31, 2019	December 31, 2019	
Epistar Corporation	Tekcore Co., Ltd.	Taiwan	Manufacturing and sales of LED chips and LED lighting facilities	1,169,412 \$	1,169,412	20,247,828	21.05 \$	37,788 (\$	3 120,081) (\$	25,279)	
Epistar Corporation	Unikom Semiconductor Corporation	Taiwan	Development, manufacturing and sales of LED chips and LED lighting facilities	1,000,000	1,000,000	100,000,000	85.91	571,113 (	436,932) (	377,906)	
Epistar Corporation	ProLight Opto Technology Corporation	Taiwan	Packaging, manufacturing and sales of LED	101,500	130,375	5,800,000	8.52	88,278 (	55,888) (	4,849)	
Epistar Corporation	SH Optotech Co., Ltd.	Taiwan	Sales of LED chips and LED lighting facilities	31,792	31,792	3,179,176	49.00	3,192	1,076	527	
Epistar Corporation	TE Opto Corporation	Taiwan	Sales of LED chips and LED lighting facilities	9,200	9,200	920,000	40.00	45,524	13,075	5,230	
Epistar Corporation	GaN Force Corporation	Taiwan	Design, manufacturing and sales of LED	63,800	•	1,063,000	64.31	56,283 (	11,533) (	7,417)	
Crystaluxx SARL	LEDOLUX Sp.Zo.O.	Poland	Assembling and sales of LED bulbs	133,455	133,455	156,994	00.09	14,051 (	798) (	479)	
Epistar JV Holding (BVI) Co.,Ltd.	Country Lighting (BVI) Co.,Ltd.	British Virgin Islands	Professional investment	89,843	89,843	3,060,000	36.43	91,723 (	) (59)	24)	
Epistar JV Holding (BVI) Co.,Ltd.	Crystal Light Enterprise Group Ltd.	British Virgin Islands	Professional investment	6,754	6,754	Cash USD200,000	100.00	26,093 (	311) (	311)	

				Initial investment amount	nt amount	Shares held as	Shares held as at December 31, 2019	31, 2019		H	Footnote
Investor	Investee	Location	Main business activities		Balance as at December 31, 2018	i i		Book value	Net profit (loss) r of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	
Epistar JV Holding (BVI) Co.,Ltd.	HUGA Holding (SAMOA) Limited	SAMOA	Professional investment	\$ 334,967 \$	331,951	12,551,035	100.00	79,880	\$ 51,872	\$ 51,872	
Epistar JV Holding (BVI) Co.,Ltd.	LiteStar JV Holding (BVI) Co.,Ltd.	British Virgin Islands	Professional investment	3,408,835	3,408,835	10,882	82.41	3,341,085 (	119,528) (	98,503)	
Epistar JV Holding (BVI) Co.,Ltd.	United LED Corporation (Hong Kong) Limited	Hong Kong	Professional investment	2,029,760	2,029,760	67,000,165	74.86	342,534 (	165,085) (	123,583)	
Epistar JV Holding (BVI) Co.,Ltd.	Episky (Hong Kong) Ltd.	Hong Kong	Professional investment	2,124,096	2,124,096	Cash USD68,000,000	100.00	2,083,512 (	284,375) (	284,375)	
Epistar JV Holding (BVI) Co.,Ltd.	Can Yang Investments Limited	Hong Kong	Professional investment	4,291,894	4,291,894	Cash USD141,272,700	80.10	1,415,308 (	275,527) (	168,451)	
GaN Ventures Co., Limited	GV Semiconductor Inc.	USA	R&D and sales of electronic components	177,602	91,225		0.00	-	76,243) (	76,243)	
GaN Force Corporation	GV Semiconductor Inc.	USA	R&D and sales of electronic components	44,466	1	Cash USD6,680,000	100.00	32,668 (	11,449) (	11,449)	
HUGA Holding (SAMOA) Limited	Ecoled Venture Co.,Limited	Hong Kong	Sales of LED lighting facilities	ı	24,655	ı	0.00	•	19,736	9,475	Note 1
Lighting Investment Ltd.	GaN Ventures Co.,Limited	Hong Kong	Investment holding; sales of electronic components	64	9	1,500,000	4.92	1,077 (	90,478) (	4,452)	

				Initial investment amount	nt amount	Shares held a	Shares held as at December 31, 2019	31, 2019			Footnote
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares (Note)	Ownership (%)	Book value	Net profit (loss) 1 of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	
Lighting Investment Ltd.	LEDAZ CO Ltd.	Korea	Engineering service of	\$ 48,166 \$	48,166	88,460	28.13 \$	34,117 (\$	(\$ 46,707) (\$	\$ 27,071)	
Lighting Investment Ltd.	Interlight OPtotech (HK) Co., Limited	Hong Kong	LED Packaging, manufacturing and sales of LED	12,806	12,806	429,000	30.00	12,705 (	( 1,232) (	397)	
Lighting Investment Ltd.	Epistar (Hong Kong) Limited	Hong Kong	Professional investment	2,556	2,556	82,850	100.00	2,080 (	( 32) (	32)	
Lighting Investment Ltd.	Luxlite (HK) Corporation Limited	Hong Kong	Professional investment	91,286	91,286	2,850,000	75.00	321,159	120,918	689,06	
LiteStar JV Holding (BVI) Co.,Ltd.	Epicrystal (Hong Kong) Co. Ltd. Hong Kong	. Hong Kong	Professional investment	4,403,034	4,403,034	146,600,000	100.00	4,053,019 (	( 119,460) (	119,460)	
Lighting Investment Corp.	Crystaluxx SARL	Luxembourg	Professional investment	131,659	131,659	33,200	100.00	12,734 (	( 1,844) (	1,844)	
Lighting Investment Corp.	LEDAZ CO., Ltd.	Korea	Engineering service of LED	23,993	23,993	44,065	14.01	21,228 (	( 46,707) (	13,447)	
Lighting Investment Corp.	Lighting Investment Ltd.	British Virgin Islands	Professional investment	152,701	152,701	45,642	100.00	592,768	52,468	52,468	
Lighting Investment Corp.	Yen-Rich Opto (Hong Kong) Limited	Hong Kong	Sales of LED light components	250,731	250,731	8,010,000	100.00	295,781	7,113	7,113	

				Initial investment amount	nt amount	Shares held a	Shares held as at December 31, 2019	1, 2019			Footnote
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares (Note)	Ownership	Book value	Net profit (loss) of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	
			\$	50		1,135,430	2.46 \$	35,862	\$ 98,085	\$ 2,416	
Lighting Investment Corp.	Nan Ya Photonics Incorporation Taiwan	Taiwan	LED light application								
Lighting Investment Corp.	ProLight Opto Technology Corporation	Taiwan	Packaging and sales of LED chips and LED lighting facilities	318,929	214,329	27,539,234	40.46	420,117 (	( 25,888) (	(22,023)	
Lighting Investment Corp.	Can Yang Investments Limited	Hong Kong	Professional investment	72,436	72,436	5,218,605	6.87	121,388 (	( 275,527) (	(18,929)	
Lighting Investment Corp.	allureLux Corporation	Taiwan	Development and design services of LED lamps	30,000	30,000	3,000,000	100.00	7,638 (	( 4,423) (	(4,423)	
Yen-Rich Technology Corporation.	ProLight Opto Technology Corporation	Taiwan	Packaging, manufacturing and sales of LED	29,372		2,462,000	3.62	37,537 (	) (982) (	(1,868)	
Epistar (Hong Kong) Limited	ES-LEDRU LLC.	Russia	Sales of LED products	2,474	2,474	4,036,069	49.00	2,231	1	•	
Episky Corp.(Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	China-Changzho	China-Changzhou Assembling and sales of LED bulbs	147,472	147,472	Cash USD5,200,000	3.31	143,666 (	( 127,901) (	(4,234)	
Episky Corp.(Xiamen) Ltd.	Manufacturing and s Episky Corporation (Changzhou) China-Changzhou LED chips and LED Ltd.	China-Changzho	Manufacturing and sales of u LED chips and LED lighting facilities	•	99,056	•	0.00	1	) (2337) (		9,237) Note 1
Episky Corp.(Xiamen) Ltd.	Development and sales of EPIRICH (Guangzhou)Co.,Ltd China-Guangzhou LED products	China-Guangzho	Development and sales of LED products		40,382		0.00		)(69)		69) Note 3

				Initial investment amount	nt amount	Shares held	Shares held as at December 31, 2019	2019		Footnote	ote
										Investment	
								ž	Net profit (loss) recognised by the	cognised by the	
								Ö	of the investee Company for the	ompany for the	
				Balance as at Balance as at	Balance as at				for the year	year ended	
Investor	Investee	Location	Main business activities	December 31, 2019	December 31, December 31, 2019 2018	Number of shares Ownership (Note) (%)		en Book value	ended December December 31, 2019 2019	December 31, 2019	
				\$ -	16,795	•	0.00	\$) -	2,977) (\$	2,977) Note 2	2
allureLux Corporation	AllureLux Inc.	USA	Design and sales of LED lighting								
				4,402	4,402	150,000	100.00	1,211)	2,364	4,443	
ProLight Opto Technology Corporation	Prolight Opto Holding Corporation	Seychelles	Protessional investment								
				4,403	4,403	150,000	100.00	1,184)	2,364	4,443	
Prolight Opto Holding Corporation	ProLight Opto Technology Corporation	Seychelles	Protessional investment								

Note 1:The liquidation was completed on December , 2019 as the company will not continue its operation. Note 2: The liquidation was completed on February , 2019 as the company will not continue its operation. Note 3: The liquidation was completed on April , 2019 as the company will not continue its operation.

EPISTAR CORPORATION AND SUBSIDIARIES Information on investments in Mainland China Year ended December 31, 2019

Expressed in thousands of NTD (Except as otherwise indicated)

			Accumulated	Amount remitted from Taiwan to Mainland China/	itted from n to China/	Accumulated			Investment income (loss) recognised by		Accumulated	
			amount of remittance from	Amount remitted back to Taiwan for the year		amount of remittance from			the Company for the year	Book value of	of investment income	
Inves	S	Investment	Taiwan to Mainland China	ended Decemb Remitted to		Taiwan to Net income of Mainland China investee as of	Net income of investee as of	held by the Company	ended December 31,	investments in Mainland China	remitted back to Taiwan as of	
method Paid-in capital (Note 1)	etho	od 1 )	as of January 1, 2019	Mainland China	back to Taiwan	as of December December 31, 31, 2019	December 31, 2019	(direct or indirect)	2019 (Note 2)	as of December 31, 2019	December 31, 2019	Footnote
	7		\$ 2,038,640	1	i.	\$ 2,038,640 (\$	(\$ 284,408)	100.00	\$ 284,408) \$		€	2(3)
2,518,320	2		1,911,225		1	1,911,225 (	( 165,485)	74.86 (	123,882)	341,252	,	2(3)
4,706,860		2	3,585,608	•	1	3,585,608 (	( 127,901)	76.95 (	98,426)	3,340,092	1	2(1)
89,940			22,511	ı	ı	22,511	125,395	75.00	94,046	238,126	57,861	2(1)
2	7											

				Accumulated amount of rom	Amount remitted from Taiwan to Mainland China/ Amount remitted back	uitted from in to   China/ nitted back	Accumulated amount of		Ownershin	Investment income (loss) recognised by the Company for the year	Rook value of	Accumulated amount of investment income	
			Investment	Taiwan to Mainland China	ended December 31, 2019 Remitted to Remitted	or the year ber 31, 2019 Remitted	Taiwan to Mainland China	Net income of investee as of	held by the Company	ended December 31,	investments in Mainland China	remitted back to Taiwan as of	
Investee in Mainland China	Main business	Daid in conital	method (Note 1)	as of January 1,	Mainland	back to Taiwan	as of December	December 31, 2019	(direct or indirect)	2019 (Note 2)	as of December	December 31,	Footnote
KAISTAR Lighting (Xiamen) Co., Ltd.	Manufacturing and sales of LED chips and LED lighting facilities	\$ 8,154,525	2	\$ 1,530,779	1		\$ 1,530,779	₩	18.77	s	\$ 1,428,696	₩	2(3)
Everlight Electronics (Fujian) Co., Ltd	Manufacturing and sales of LED backlight and related parts	749,500	2	74,950	•	•	74,950	1	10.00	•	44,223	ı	2(3)
APT Electronics Co., Ltd.	Developing, manufacture and sale of LED extension and chip, module and light instrument	1,771,488	٣	218,751	36,898	1	255,649		11.81	•	•	,	2(3)
China Crystal Technologies Co.,Ltd.	Developing, manufacture and sale of gallium arsenide unit crystal and chips	851,380	2	100,632	1	1	100,632	1	8.97	( 9,582)	67,526	,	2(3)
Ufeco Technology Inc.	Developing and manufacturing LED application and sales of selfproduct	\$ 74,950	2	3,808	· · · · · · · · · · · · · · · · · · ·	·	\$ 7,808	<b>.</b>	10.00	· •	· ·	€	2(3)

Pootnote	2(3)	2(3)	2(3)	2(2)
Accumulated amount of investment income remitted back to Taiwan as of December 31, 2019 F	1	1	•	·
Book value of investments in Mainland China as of December 31, 2019	•	26,093	1,536,695	1,157)
Investment income (loss) recognised by the Company for the year ended in December 31, M 2019 a 2019	,	311)	239,626)	4,443 (\$
Ownership held by the Company I (direct or indirect)	00 0	100.00	) 26.98	52.60 \$
Net income of investee as of December 31, 2019	•	311)	275,384)	\$ 2,633
Accumulated amount of remittance from Taiwan to Mainland China as of December 31, 2019	219,457	50,463 (	2,387,089 (	4,497
	'		1	<b>⇔</b>
Amount remitted from Taiwan to Mainland China/ Amount remitted back to Taiwan for the year ended December 31, 2019 Remitted to Remitted Mainland back China to Taiwan	'	1	1	· · · · · · · · · · · · · · · · · · ·
Accumulated amount of remittance from Taiwan to Mainland China as of January 1,	219,457	50,463	2,387,089	\$ 4,497
Investment method (Note 1)	6	2	2	2
Paid-in canital	430,500	966'5	5,756,160	4,497
Main business activities	Research and development, manufacturing and sale of LED packaging; research and development, manufacturing and sale of backlight module, lighting modules and accessories	Manufacturing and sales of LED chips and LED lighting facilities	Manufacturing and sales of LED chips and LED lighting facilities	S Wholesale and export and import of LED and related electronic products
Investee in Mainland China	Very Optoelectronics (HUI ZHOU) Co., Ltd.	Ningbo Formosa Epitaxy Incorporation	Jiangsu Canyang Optoelectronics Ltd.	Shanghai Welight Electronic Co., LTD.

Coming on	investments in	Mainland China	imposed by the	Investment	Commission of	MOEA	\$ 28,317,215
IIIVESUIICIII	amount approved	by the Investment Mainland China	Commission of imposed by the	Mainland China as the Ministry of	of December 31, Economic Affairs Commission of	(MOEA)	12,241,483 \$ 13,277,209 \$ 28,317,215
				as	1, E		33 8
Accumulated	amount of	emittance from	Taiwan to	nland China	December 3	2019	12,241,48
ζ		ren		Mai	of]		S
						Company name	Epistar Corporation

Note 1: The investments are classified in three types; they are numbered as follows:

1. Direct investment in Mainland China companies;

2. Through investing in an existing company in the third area, which then invested in the investee in Mainland China.

3. Other ways.

Note 2: Investment income or loss in this period:

The bases for recognition of investment income or loss are classified into four types; they are numbered as follows:

1. The financial statements that are audited by the international accounting firm which has a cooperative relationship with the R.O.C. accounting firm;

2. The financial statements that are audited by the R.O.C. parent company's independent accountants;

3. Others: The financial statements that are not audited by the independent accountants

Note 3: The amount disclosed was based on Investment Commission, MOEA Regulation No. 09704604680 announced on August 29, 2008.

Note 4: The numbers in the table shall be expressed in NTD. Foreign currencies shall be translated into NTD at the exchange rate prevailing on the financial reporting date.

Note 5: The 'amounts' are expressed in thousands of New Taiwan dollars.

Note 7: The Group lost significant influence over KAISTAR Lighting (Xiamen) Co., Ltd. as the shares of it owned by the Group were less than 20% on April 26, 2018. Note 6: The shares of Very Optoelectronics (HUI ZHOU) Co., Ltd. and Cosmoled Lighting Limited were all disposed on March 14, 2018 and June 25, 2018.

EPISTAR CORPORATION AND SUBSIDIARIES

Significant transactions conducted with investees in Mainland China directly or indirectly through other companies in the third areas

Year ended December 31, 2019

Provision of

Expressed in thousands of NTD (Except as otherwise indicated)

Table 10

					Accounts receivable		endorsements/guarantees or	rantees or					
	Sale (purchase)	e)	Property transaction	tion	(payable)		collaterals	s		Financing	ing		
									Maximum			Interest during	
Investee in					Balance at		Balance at		balance during	Balance at		the year ended	
Mainland				Ď	December 31,	Д	December 31,		the year ended	December 31,		December 31,	
China	Amount	%	Amount	%	2019	%	2019	Purpose	December 31,	2019	Interest rate	2019	Others
Shanghai Welight Electronic Co., \$LTD.	170,826	1 8	1	<del>55</del>	167,605	<b>S</b>	ı	I	€	€	ı	· •	
Jiangsu Canyang Optoelectronics Ltd.	184,669	-	132,258	15	87,845	,	389,740	ı	879,000	430,500	4.2%	5,868	
Jiangsu Canyang Optoelectronics Ltd. (	378,190) (	2) (	11,851)	·	38,419)		•	I	•	•	•	•	
Luxlite (Shenzhen) Corporation Limited	1,425,371	6	•		775,081	-	•	I	1	1	•	1	
Episky Corporation (Xiamen) Ltd.	768,584	Ś	29,708	3	335,714	1	2,518,320	ı	1,824,000	861,000	5.53%	•	
Episky Corporation (Xiamen) Ltd. (	287,519) (	2)	•	-	50,045)		•	I	•	•	•	•	
Epicrystal Corporation (Changzhou) Ltd	449,614	ε	16,405	2	83,183			I	1	1	•	•	
Epicrystal Corporation (Changzhou) (Ltd	1,230,596) (	8) (8	11,839)	<u> </u>	497,916) (	<u>.</u>	ı	1	•	ı	1	ı	

#### REPORT OF INDEPENDENT ACCOUNTANTS

PWCR19000308

To the Board of Directors and Shareholders of Epistar Corporation

#### **Opinion**

We have audited the accompanying parent company only balance sheets of Epistar Corporation (the "Company") as at December 31, 2019 and 2018, and the related parent company only statements of comprehensive income, of changes in equity and of cash flows for the years then ended, and notes to the parent company only financial statements, including a summary of significant accounting policies.

In our opinion, based on our audits and the reports of other independent accountants, as described in the *Other matters* section of our report, the accompanying parent company only financial statements present fairly, in all material respects, the parent company only financial position of the Company as at December 31, 2019 and 2018, and its parent company only financial performance and its parent company only cash flows for the years then ended in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers".

#### Basis for opinion

We conducted our audit of the financial statements as of and for the year ended December 31, 2019 in accordance with the "Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants", "Rule No. Financial-Supervisory-Securities-Auditing-1090360805 issued by the Financial Supervisory Commission on February 25, 2020" and generally accepted auditing standards in the Republic of China (ROC GAAS); and in accordance with the "Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants" and ROC GAAS for our audit of the financial statements as of and for the year ended December 31, 2018.

#### Key audit matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the parent company only financial statements of the current period. These matters were addressed in the context of our audit of the parent company only financial statements as a whole and, in forming our opinion thereon, we do not provide a separate opinion on these matters.

The key audit matters in relation to the parent company only financial statements for the year ended December 31, 2019 are outlined as follows:

## Evaluation of Impairment Losses of Property, Plant and Equipment, and Goodwill Description

Please refer to Note 4(19) for accounting policies on impairment losses on non-financial assets, Note 5(2) for the accounting estimates and assumptions in relation to non-financial assets valuation and Note 6(10) for the explanations regarding impairment losses on non-financial assets. As of December 31, 2019, the balances of property, plant and equipment, and goodwill were NT\$13,389,354 thousand and NT\$6,324,659 thousand, respectively.

The Company evaluates the recoverable amounts of idle property, plant and equipment through assessing the fair values after deducting the disposal costs, and of property, plant and equipment, and intangible assets through value in use. The Company evaluates whether impairment losses will be provided for property, plant and equipment, and goodwill utilizing the aforementioned recoverable amounts. The evaluation of value in use for operational property, plant and equipment and intangible assets consists of the estimation of future cash flows and the determination of discount rates. Since the assumptions adopted in the estimation of future cash flows and the results of the estimation would have significant impact on value in use of operational property, plant, and equipment, and intangible assets, it was identified as one of the key audit matters.

#### How our audit addressed the matter

We have obtained the appraisal report of idle property, plant and equipment prepared by independent values from the Company and assessed the reasonableness of evaluation methods and fair values utilized. For value in use of operational property, plant and equipment, and goodwill, the following procedures were conducted:

- 1. Interviewed with management and obtained an understanding of the Company's operational procedures in estimating future cash flows and verified the consistency to operation plans approved by the Board of Directors.
- 2. Discussed operation plans with management to understand the product strategies and their respective execution status.
- 3. Assessed the reasonableness for assumptions utilized in estimating future cash flows, including projected sales volumes, unit prices and unit costs. Assessed the parameters adopted in determining discount rates, including calculating and comparing the weighted average cost of capital at risk-free rates, the industrial risk premium and the long-term rates of returns.

### Evaluation of Inventories

#### **Description**

Please refer to Note 4(12) for accounting policies on inventory valuation, Note 5(2) for the accounting estimates and assumptions in relation to inventory valuation and Note 6(5) for the explanations regarding inventories. As of December 31, 2019, the balances of inventories and the allowance for valuation loss were NT\$2,589,853 thousand and NT\$522,882 thousand, respectively.

The Company is primarily engaged in manufacturing and sales of LED wafers and chips. Due to rapid technological developments, short product lifespans and frequent fluctuations of market prices, the risk of decline in market value and obsolescence for inventories is high. The Company evaluates net realized values for inventories which aged over a specific period of time and specific obsolete inventories in order to provide allowance for valuation loss. Since the identification of the above obsolete inventories and their respective net realizable values are subject to management's judgment, it was identified as one of the key audit matters.

#### How our audit addressed the matter

Our key audit procedures performed in respect of the above included the following:

- 1. Obtained an understanding of the Company's operations and the nature of its industry and interviewed with management to understand the probability of future sales for those out-of-date inventories and to evaluate the reasonableness of allowance for valuation loss.
- 2. Obtained and validated the accuracy of the detailed listings of inventories aged over a specific period of time and specific obsolete inventories. Validated information of historical sales and discounts for

those obsolete inventories to assess the reasonableness of policies in providing allowance for inventory valuation loss.

### Other matter - Audited by Other Independent Accountants

We did not audit the 2019 and 2018 financial statements of certain subsidiaries and equity investments accounted for under the equity method. These equity investments amounted to NT\$866,906 thousand and NT\$1,329,419 thousand, representing 1.64% and 2.32% of the total assets as of December 31, 2019 and 2018, respectively, and their comprehensive loss (including share of income (loss) of associates and joint ventures accounted for under equity method and share of other comprehensive income of associates and joint ventures accounted for under equity method) amounted to NT\$131,781 thousand and NT\$67,099 thousand, representing 3.52% and 6.56% of the comprehensive loss for the years then ended. The financial statements of the aforementioned subsidiaries and investees were audited by other independent accountants whose reports thereon were furnished to us and our opinion expressed herein, insofar as it relates to the amounts included in the financial statements is based solely on the reports of the other independent accountants.

## Responsibilities of management and those charged with governance for the parent company only financial statements

Management is responsible for the preparation and fair presentation of the parent company only financial statements in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers", and for such internal control as management determines is necessary to enable the preparation of parent company only financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the parent company only financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance, including audit committee, are responsible for overseeing the Company's financial reporting process.

## Independent accountant's responsibilities for the audit of the parent company only financial statements

Our objectives are to obtain reasonable assurance about whether the parent company only financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ROC GAAS will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these parent company only financial statements.

As part of an audit in accordance with ROC GAAS, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- 1. Identify and assess the risks of material misstatement of the parent company only financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- 2. Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- 3. Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- 4. Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the parent company only financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- 5. Evaluate the overall presentation, structure and content of the parent company only financial statements, including the disclosures, and whether the parent company only financial statements

- represent the underlying transactions and events in a manner that achieves fair presentation.
- 6. Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Company to express an opinion on the parent company only financial statements. We are responsible for the direction, supervision and performance of the audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the parent company only financial statements of the current period and are therefore the key audit matters. We describe these matters in our report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Cheng, Ya-Huei	Hsieh, Chih-Cheng
For and on behalf of PricewaterhouseCoopers, Taiw	ran
February 26, 2020	

The accompanying parent company only financial statements are not intended to present the financial position and results of operations and cash flows in accordance with accounting principles generally accepted in countries and jurisdictions other than the Republic of China. The standards, procedures and practices in the Republic of China governing the audit of such financial statements may differ from those generally accepted in countries and jurisdictions other than the Republic of China. Accordingly, the accompanying parent company only financial statements and report of independent accountants are not intended for use by those who are not informed about the accounting principles or auditing standards generally accepted in the Republic of China, and their applications in practice.

# EPISTAR CORPORATION PARENT COMPANY ONLY BALANCE SHEETS DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

	December 31, 2019			)	December 31, 201	8
Assets	Notes		AMOUNT	%	AMOUNT	%
Current assets						
Cash and cash equivalents	6(1)	\$	2,312,265	4	\$ 3,012,708	5
Financial assets at fair value through profit or	6(2)					
loss - current			249,900	1	40,923	-
Notes receivable, net	6(4)		813,367	2	521,031	1
Accounts receivable, net	6(4)		3,896,102	7	4,076,544	7
Accounts receivable - related parties, net	7		1,500,686	3	3,100,860	5
Other receivables			98,448	-	191,748	-
Other receivables - related parties	7		435,164	1	326,576	1
Inventories	6(5)		2,066,971	4	2,884,535	5
Prepayments			204,905	-	267,343	1
Non-current assets held for sale - net	6(11)		827	-	388,500	1
Other current assets	8		101,992		97,552	
Current Assets			11,680,627	22	14,908,320	26
Non-current assets						
Non-current financial assets at fair value	6(2)					
through profit or loss			157,762	-	-	-
Non-current financial assets at fair value	6(3)					
through other comprehensive income			1,465,837	3	1,097,917	2
Investments accounted for under equity	6(6)					
method			13,807,857	26	14,376,759	25
Property, plant and equipment	6(7) and 8		13,389,355	25	15,385,565	27
Right-of-use assets	6(8)		1,269,935	3	-	-
Intangible assets	6(9)		7,363,388	14	7,556,713	13
Deferred income tax assets	6(29)		3,798,489	7	3,764,894	7
Other non-current assets			45,191		194,741	
Non-current assets			41,297,814	78	42,376,589	74
Total assets		\$	52,978,441	100	\$ 57,284,909	100
		-				

(Continued)

# EPISTAR CORPORATION PARENT COMPANY ONLY BALANCE SHEETS DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars)

			December 31, 2019		December 31, 2018		
Liabilities and Equity	Notes		AMOUNT	%	AMOUNT	%	
Current liabilities							
Short-term borrowings	6(12)	\$	-	- \$	449,295	1	
Notes payable			4,122	-	9,421	-	
Accounts payable			1,058,122	2	1,565,828	3	
Accounts payable - related parties	7		734,828	2	538,248	1	
Other payables	6(13) and 7		1,743,340	3	2,852,214	5	
Current lease liabilities			71,628	-	-	-	
Long-term liabilities, current portion	6(14) and 8		78,561	-	165,306	-	
Other current liabilities - others			185,594	<u> </u>	290,033		
Current Liabilities			3,876,195	7	5,870,345	10	
Non-current liabilities							
Long-term borrowings	6(14) and 8		911,247	2	409,808	1	
Deferred income tax liabilities	6(29)		1,577,354	3	1,383,631	2	
Non-current lease liabilities			1,237,625	3	-	-	
Other non-current liabilities	6(15)(17)		156,831	<u> </u>	267,542	1	
Non-current liabilities			3,883,057	8	2,060,981	4	
<b>Total Liabilities</b>			7,759,252	15	7,931,326	14	
Equity							
Share capital	6(18)						
Share capital - common stock			10,887,014	21	10,887,014	19	
Capital surplus	6(19)						
Capital surplus			39,212,772	74	39,515,679	69	
Retained earnings	6(20)						
Legal reserve			161,423	-	161,423	-	
Special reserve			318,465	1	703,607	1	
Accumulated deficit		(	3,749,510) (	7) (	385,142) (	1)	
Other equity interest	6(21)						
Other equity interest		(	1,285,485) (	3) (	1,317,990) (	2)	
Treasury stocks	6(18)	(	325,490) (	1) (	211,008)	-	
Total equity		·	45,219,189	85	49,353,583	86	
Total liabilities and equity		\$	52,978,441	100 \$	57,284,909	100	
i v		<u> </u>	, ,	<u> </u>	, = - ,	<del></del>	

The accompanying notes are an integral part of these parent company only financial statements.

# EPISTAR CORPORATION PARENT COMPANY ONLY STATEMENTS OF COMPREHENSIVE INCOME YEARS ENDED DECEMBER 31, 2019 AND 2018 (Expressed in thousands of New Taiwan dollars, except loss per share amounts)

			Year ended December 31					
			2019			2018		
Items	Notes		AMOUNT	%		AMOUNT	%	
Sales revenue	6(22) and 7	\$	12,425,234	100	\$	17,189,772	100	
Operating costs	6(5)(27)(28) and 7	(	12,577,783) (	101)	(	14,773,356) (	86	
Net operating margin		(	152,549) (	1)		2,416,416	14	
Unrealized loss (profit) from sales		,	15,549	- 1)		85,787	1	
Realized profit on from sales		(	85,787) (	1)		29,111	- 1.5	
Net operating margin	((27)(28) 1.7	(	222,787) (	<u>2</u> )		2,531,314	15	
Operating expenses	6(27)(28) and 7	,	102 205) /	1)	,	224 700) /	1	
Selling expenses General and administrative expenses		(	182,305) (	1) 7)		234,788) ( 999,512) (	1	
Research and development expenses		(	858,475) ( 1,567,818) (	13)		1,827,561) (	11	
Reveral of (expected credit losses)		(	8,670	-	(	2,758)	-	
Total operating expenses		(	2,599,928) (	21)	<u> </u>	3,064,619) (	18	
Other income and expenses - net	6(23) and 7	(	121,614	1	'	126,123	1	
Operating loss	0(23) and 7	(	2,701,101) (	22)	_	407,182) (	2	
Non-operating income and expenses		(	2,701,101) (		·	407,102) (		
Other income	6(24) and 7		314,004	2		339,338	2	
Insurance income from disaster	0(21) and /		-	-		206,785	1	
Other gains and losses	6(3)(10)(25) and 7	(	116,246) (	1)	(	689,718) (		
Finance costs	6(26)	(	36,764)		(	28,022)	_	
Reveral of (expected credit losses)		(	33,768)	_	`	4,121	-	
Share of loss of subsidiaries, associates and joint	6(6)	`	, ,			,		
ventures accounted for using equity method, net		(	1,047,846) (	8)	(	248,225) (	2	
Total non-operating income and expenses		(	920,620) (	7)		415,721) (	3	
Loss before income tax		(	3,621,721) (	29)	(	822,903) (	5	
Income tax (expense) benefit	6(29)	(	132,076) (	1)		366,757	2	
Loss for the year		(_\$	3,753,797) (	30)	(\$	456,14 <u>6</u> ) (	3	
Other comprehensive income								
Gain on remeasurements of defined benefit plans	6(15)	\$	5,372	-	\$	31,823	-	
Unrealised gains (losses) from investments in	6(3)							
equity instruments measured at fair value through								
other comprehensive income			367,920	3	(	468,008) (	3	
Share of other comprehensive income of								
subsidiaries, associates and joint ventures								
accounted for using equity method, components of								
other comprehensive income that will not be			20.052		,	140 700) (	1	
reclassified to profit or loss	6(20)		20,853	-	(	148,782) (	1	
Income tax related to components of other comprehensive income that will not be reclassified	6(29)							
to profit or loss		(	71,831) (	1)		111,198	1	
Components of other comprehensive income		(	71,031) (			111,170	1	
that will not be reclassified to profit or loss			322,314	2	(	473,769) (	3	
Total Share of other comprehensive income of		-	322,311			173,702) (		
subsidiaries, associates and joint ventures								
accounted for using equity method, components of								
other comprehensive income that will be								
reclassified to profit or loss		(	361,068) (	3)	(	143,180) (	1	
Income tax relate to the components of other	6(29)							
comprehensive income that will be reclssified to								
profit or loss			72,214	1		50,281	1	
Components of other comprehensive income		_		_		_	_	
that will be reclassified to profit or loss		(	288,85 <u>4</u> ) (	2)	(	92,899)	-	
Other comprehensive income (loss) for the year		\$	33,460		(\$	566,668) (	3	
Total comprehensive loss for the year		(\$	3,720,337) (	30)	(\$	1,022,814) (	6	
Basic loss per share	6(30)							
Total basic loss per share		( \$		3.48)			0.42	
Total diluted loss per share		(\$		3.48)	(\$		0.42	

The accompanying notes are an integral part of these parent company only financial statements.

PARENT COMPANY ONLY STRATEMENTS OF CHANGES IN EQUITY
YEARS ENDED DECEMBER 31, 2019 AND 2018
(Expressed in thousands of New Taiwan dollars)

Total	51,379,181 1,514 51,377,667 456,146 56,668 1,022,814	749.196 ) 121.765 ) 2.052 75.845 ) 458.095 )	732 ) 391,400 5,472 5,439 - 5,439	49,353,583 3,753,797 33,720,337 13,720,337 7,304 14,059 3,332 114,482 14,482 14,482
Treasury stocks	(\$ 408,783 ) \$		273,620	\$ 211,008 ) \$ (
Umralized gain or loss on available-for- sale financial assets	(\$ 268, 293 ) ( 268, 293 ) ( 268, 293 )		· · · ·   ·   ·   ·   ·	w
Other equity interest Unrealised gains (losses) from financial assets measured at fair value through outprehensive income	\$		1,071	(\$ 818.175 ) 318.027 318.027
Financial statements translation differences of foreign operations	(\$ 415,950 ) 3,595 ( 412,355 ) ( 92,899 ) ( 92,899 )		5, 439 (\$ 499,815)	(\$ 499.815 ) ( 288.854 ) ( 288.854 ) ( 288.854 ) ( 38.854 ) ( 38.854 ) ( 38.854 ) ( 38.854 ) ( 38.854 ) ( 38.854 ) ( 38.854 ) ( 38.858 ) ( 38.8
Unappropriated retained earnings (accumulated deficit)	\$ 1,614,226 46,946 1,661,172 ( 456,146 ) 25,129 ( 431,017 )	( 161,423 ) ( 703,607 ) ( 749,196 )		\$\frac{\$\\$85,142}{3,753,797}\$\) (\begin{array}{c} 3,753,797\\4,287\\(\begin{array}{c} 3,749,510\\385,142\\\end{array}\) 385,142
Retained Earnings Special reserve		703,607	\$ 703,607	\$ 703,607 
Legal reserve	·	161,423	\$ 161,423	\$ 161,423
Capital surplus	\$ 39,970,967	2,052	732 ) 117,780 5,472	\$ 39,515,679
Share capital - common stock	\$ 10,887,014		\$ 10,887,014	\$ 10,887,014
Notes	6(20) 6(20)(21)	6(20) 6(20) 6(19) 6(19) 6(19)	rred ((19) (6(19) (6(20)(21) (6(21)	6(20) 6(20)(21) 6(20)(21) 6(19) red 6(19) 6(21)
	2018 Balance at January 1, 2018 Balance at January 1, 2018 Effects of retrospective application and retrospective restatement Balance at January 1 after adjustments Loss for the year Other comprehensive income (loss) for the year Total comprehensive loss for the year	Appropriations of 2017 earnings Legal reserve appropriated Special reserve appropriated Special reserve appropriated Cash dividends Cash dividends distributed from capital surplus Adjustments of capital surplus for company's cash dividends received by subsidiaries Purchase of treasury shares Change in investoes interest accounted for under equity method	Difference between consideration and carrying amount of subsidiaries acquired 6(19) and disposed Treasury stock transferred to employees Changes in ownership interests in subsidiaries accounted for using equity 6(19) method Proceeds from disposal of financial assets at fair value through other 6(20) comperhensive income Proceeds from disposal of investments accounted for using equity method 6(21) Balance at December 31, 2018	Balance at January 1, 2019  Loss for the year  Loss for the year  Other comprehensive income (loss) for the year  Total comprehensive income (loss) for the year  Appropriations of 2018  Special reserve used to offset accumulated deficits  Cash dividends distributed from capital surphis  Change in investees interest accounted for under equity method  Difference between consideration and carrying amount of subsidiaries acquired  and disposed  Proceeds from disposal of investments accounted for using equity method  Purchase of treasury shares  Balance at December 31, 2019

The accompanying notes are an integral part of these parent company only financial statements.

#### EPISTAR CORPORATION

## PARENT COMPANY ONLY STATEMENTS OF CASH FLOWS YEARS ENDED DECEMBER 31, 2019 AND 2018

(Expressed in thousands of New Taiwan dollars)

Cash FLOWS FROM OPERATING ACTIVITIES		Notes		2019		2018
Loss before tax   Adjustments   Adjustments   Adjustments   Ceconcile profit (loss)	CASH ELOWS EDOM OBED ATING ACTIVITIES					
Adjustments to reconcile profit (loss)  Depreciation 6(9)(27) 3,424,225 3,499,184  Amortization (6(9)(27) 246,948 253,705  (Reveral of) expected credit losses 25,107 (1,363)  Net gain on financial assets at fair value through 6(25) profit or loss  Interest expense 6(26) 36,219 28,278  Interest income 6(24) (13,789) (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) 1,105 (12,910)  Effect of exchange rate on loans 6(32) (1,05) (10,004)  Gould for using equity method (10,004) (10,004)  (Gain) loss on oin-financial assets 6(25) 178,603 (15,949)  (Gain) loss on loisposal of property, plant and 6(25) (10,004) (10,004)  Gain on disposal intangible assets 6(25) (5,698) (10,004)  Other income from recognition of long-term deferred revenues (10,004) (10,004)  Property, plant and equipment transferred to expenses Expenses transferred to intangible assets (13,566) (13,566)  Fencalized loss (profit) from sales (13,566) (13,566) (13,566)  Changes in operating assets and liabilities (13,548) (13,566) (13,566)  Changes in operating assets and liabilities (13,548) (13,556) (13,548) (13,566) (13,5			( \$	2 621 721 )	<b>( ¢</b>	922 002 \
Adjustments to reconcile profit (loss)   Depreciation			( \$	3,021,721 )	( p	822,903)
Depreciation						
Amortization (69)(27) 246,948 253,705 (Reveral of) expected credit losses		6(9)(27)		3 424 225		3 400 184
Reveral of) expected credit losses   25,097 ( 1,363 )     Net gain on financial assets at fair value through   6(25)     profit or loss   193,066 ( 4,504 )     Interest expense   6(26)   36,219   28,278     Interest income   6(24)   (13,789) ( 12,910 )     Effect of exchange rate on loans   6(32)   1,105						
Net gain on financial assets at fair value through profit or loss   1,504		$O(\mathcal{I})(2T)$			(	
profit or loss		6(25)		23,091	(	1,303 )
Interest expense   6(26)   36,219   28,278   Interest income   6(24)   (28,246) ( 31,680)   Dividend income   6(24)   (13,789) ( 12,910)   Effect of exchange rate on loans   6(32)   1,105   - Share of loss of subsidiaries and associates accounted   for using equity method   1,047,846   248,225   Impairment loss on non-financial assets   6(25)   178,603   615,949   (Gaim) loss on disposal of property, plant and   6(25)   equipment   (89,361)   126,690   Gain od isposal intangible assets   6(25)   20,001 ( 100,804 )   Other income from recognition of long-term deferred   7,047,846   1,356   1,047,846   Income from recognition of long-term deferred   6(7)   1,047,846   1,356   1,047,846   Income from recognition of long-term deferred   6(25)   20,001 ( 100,804 )   Other income from recognition of long-term deferred   6(25)   20,001 ( 100,804 )   Other income from recognition of long-term deferred   6(17)   1,356   1		0(23)	(	103 066 )	(	4 504 )
Interest income		6(26)	(		(	
Dividend income		` /	(		(	
Effect of exchange rate on loans		` /	(			
Share of loss of subsidiaries and associates accounted for using equity method for using equity method (625)   178,603   615,949			(		(	12,910 )
for using equity method         1,047,846         248,225           Impairment loss on non-financial assets         6(25)         178,603         615,949           equipment         (89,361)         126,690           Gain on disposal intangible assets         6(25)         5,698)         -           Loss (gain) on disposal of investments         6(25)         20,001         100,804           Other income from recognition of long-term deferred revenues         6(25)         20,001         100,804           Property, plant and equipment transferred to expenses         98,250         5,858           Expenses transferred to intangible assets         (13,566)         -           Realized loss (profit) from sales         (87,877)         29,111           Unrealised loss from sales         (15,548)         85,787           Bargain purchase gains         (15,548)         85,787           Changes in operating assets and liabilities         (23,541)         -           Changes in operating assets         (197,576)         301,363           Notes receivable         (292,336)         325,967           Accounts receivable         (292,336)         325,967           Accounts receivable         (292,336)         325,967           Other non-current assets         (31,14		` /		1,103		-
Impairment loss on non-financial assets   6(25)   178,603   615,949   (Gain) loss on disposal of property, plant and   6(25)		0(0)		1 047 046		240 225
Gain   loss on disposal of property, plant and equipment   ( 89,361 )   126,690		6(25)		, ,		
equipment         (89,361)         126,690           Gain on disposal intangible assets         6(25)         20,001         100,804           Other income from recognition of long-term deferred revenues         (87,830)         23,647           Property, plant and equipment transferred to expenses         98,250         5,858           Expenses transferred to intangible assets         (13,566)         -           Realized loss (profit) from sales         85,787         29,111           Unrealised loss from sales         (15,548)         85,787           Bargain purchase gains         (23,541)         -           Changes in operating assets and liabilities         -         -           Changes in operating assets at fair value through profit or loss         (197,576)         301,363         -           Financial assets at fair value through profit or loss         (197,575)         301,363         -           Notes receivable         (292,336)         325,967         -           Accounts receivable         (292,336)         325,967         -           Accounts receivable         (250,093)         1,246,730         -           Inventories         811,472         213,393         -           Prepayments         62,438         59,421         -				178,003		013,949
Gain on disposal intangible assets         6(25)         5,698 )         -           Loss (gain) on disposal of investments         6(25)         20,001 ( 100,804)           Other income from recognition of long-term deferred revenues         7         8           revenues         98,250 ( 5,858)         5,858           Expenses transferred to intangible assets         ( 13,566 ) ( -         -           Realized loss (profit) from sales         ( 15,548 ) ( 85,787 )         29,111 )           Unrealised loss from sales         ( 15,548 ) ( 85,787 )         85,787 )           Bargain purchase gains         ( 23,541 ) ( 23,541 ) ( 29,111 )         -           Changes in operating assets and liabilities         C         23,541 ) ( 301,363 )           Changes in operating assets at fair value through profit or loss         ( 197,576 ) ( 301,363 )         301,363 )           Notes receivable         ( 292,336 ) ( 325,967 )         1,463,422 ( 20,325 )         325,967 )           Accounts receivable         ( 292,336 ) ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 )         1,463,422 ( 325,967 ) <td></td> <td>0(23)</td> <td>,</td> <td>90 261 )</td> <td></td> <td>126 600</td>		0(23)	,	90 261 )		126 600
Loss (gain) on disposal of investments		((25)	`			120,090
Other income from recognition of long-term deferred revenues         ( 57,830 ) ( 23,647 )           revenues         98,250 5,858           Expensety plant and equipment transferred to expenses         98,250 5,858           Expenses transferred to intangible assets         ( 13,566 )         -           Realized loss (profit) from sales         85,787 ( 29,111 )         Unrealised loss from sales         ( 15,548 ) ( 85,787 )         29,111 )           Unrealised loss from sales         ( 23,541 )         -         -           Bargain purchase gains         ( 197,576 ) ( 301,363 )         -         -           Changes in operating assets and liabilities         ( 292,336 ) ( 325,967 )         -		` /	(		,	100 004 \
revenues         (         57,830 ) (         23,647 )           Property, plant and equipment transferred to expenses         98,250         5,858           Expenses transferred to intangible assets         (         13,566 )         -           Realized loss (profit) from sales         85,787 (         29,111 )           Unrealised loss from sales         (         15,548 ) (         85,787 )           Bargain purchase gains         (         23,541 )         -           Changes in operating assets and liabilities         To a count an experiment of the count of the counts are ceivable and counts receivable and counts received and c		` /		20,001	(	100,804)
Property, plant and equipment transferred to expenses         98,250         5,858           Expenses transferred to intangible assets         ( 13,566)         -           Realized loss (profit) from sales         85,787 ( 29,111)           Unrealised loss from sales         ( 15,548) ( 85,787)           Bargain purchase gains         ( 23,541)         -           Changes in operating assets and liabilities         -         -           Changes in operating assets         ( 197,576) ( 301,363)         -           Financial assets at fair value through profit or loss         ( 292,336) ( 325,967)         -           Accounts receivable         ( 292,336) ( 325,967)         -           Accounts receivable         1,755,519         1,463,422           Other receivables         250,093         1,246,730           Inventories         811,472         213,393           Prepayments         62,438         59,421           Other non-current assets         8,034         4,135           Changes in operating liabilities         8,034         4,135           Changes in operating liabilities         ( 5,299) ( 15,372)           Notes payable         ( 311,126) ( 433,237)           Other payables         ( 479,984) ( 402,911)           Other current liabilities		6(17)	,	57 000 V	,	22 (47)
Expenses transferred to intangible assets       ( 13,566 )       -         Realized loss (profit) from sales       85,787 ( 29,111 )         Unrealised loss from sales       ( 15,548 ) ( 85,787 )         Bargain purchase gains       ( 23,541 )         Changes in operating assets and liabilities       -         Changes in operating assets       -         Financial assets at fair value through profit or loss       ( 197,576 ) ( 301,363 )         Notes receivable       ( 292,336 ) ( 325,967 )         Accounts receivable       1,755,519 ( 1,463,422 )         Other receivables       250,093 ( 1,246,730 )         Inventories       811,472 ( 213,393 )         Prepayments       62,438 ( 59,421 )         Other non-current assets       8,034 ( 41,35 )         Changes in operating liabilities       8,034 ( 41,35 )         Notes payable       ( 5,299 ) ( 15,372 )         Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other non-current liabilities       ( 104,440 ) 175,704 )         Other non-current liabilities       2,598,772 ( 5,371,759 )         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 ( 33,297 )         Interest received       61,604 ( 55,084 )			(		(	, ,
Realized loss (profit) from sales         85,787 (15,548)         29,111 (29,111)           Unrealised loss from sales         (15,548)         85,787 (29,111)           Bargain purchase gains         (23,541)         -           Changes in operating assets and liabilities         -           Changes in operating assets         -         -           Financial assets at fair value through profit or loss         (197,576)         301,363 (25,967)           Notes receivable         (292,336)         325,967 (25,967)           Accounts receivable         1,755,519         1,463,422 (25,967)           Other receivables         250,093         1,246,730 (25,967)           Inventories         811,472         213,393 (25,967)           Prepayments         62,438         59,421 (25,438)           Other non-current assets         8,034         4,135 (25,438)           Changes in operating liabilities         (5,299) (15,372)         15,372 (25,438)           Accounts payable         (311,126) (433,237)         40,911 (25,438)         40,911 (25,438)           Other payables         (479,984) (402,911 (25,438)         40,911 (25,438)         40,911 (25,438)           Other current liabilities         262 (22,624)         22,624           Cash inflow generated from operations         2,598,77			,			5,858
Unrealised loss from sales       ( 15,548 ) ( 23,541 )       85,787 )         Bargain purchase gains       ( 23,541 )       -         Changes in operating assets       Changes in operating assets         Financial assets at fair value through profit or loss       ( 197,576 ) ( 301,363 )         Notes receivable       ( 292,336 ) ( 325,967 )         Accounts receivable       ( 250,093 ) ( 1,246,730 )         Inventories       811,472 ( 213,393 )         Prepayments       62,438 ( 59,421 )         Other non-current assets       8,034 ( 4,135 )         Changes in operating liabilities       8,034 ( 4,135 )         Notes payable       ( 5,299 ) ( 15,372 )         Accounts payables       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) (175,704 )         Other non-current liabilities       ( 262 ( 22,624 )         Cash inflow generated from operations       2,598,772 ( 5,371,759 )         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 ( 33,297 )         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 ( 55,084 )			(			-
Bargain purchase gains         ( 23,541 )         -           Changes in operating assets         Changes in operating assets         -           Financial assets at fair value through profit or loss         ( 197,576 ) ( 301,363 )           Notes receivable         ( 292,336 ) ( 325,967 )           Accounts receivable         1,755,519 ( 1,463,422 )           Other receivables         250,093 ( 1,246,730 )           Inventories         811,472 ( 213,393 )           Prepayments         62,438 ( 59,421 )           Other non-current assets         8,034 ( 4,135 )           Changes in operating liabilities         8,034 ( 4,135 )           Notes payable         ( 5,299 ) ( 15,372 )           Accounts payable         ( 311,126 ) ( 433,237 )           Other payables         ( 479,984 ) ( 402,911 )           Other current liabilities         ( 104,440 ) ( 175,704 )           Other non-current liabilities         2,598,772 ( 5,371,759 )           Income tax paid         ( 1,174 ) ( 157,529 )           Interest received         28,332 ( 33,297 )           Interest paid         ( 35,895 ) ( 29,388 )           Dividend received         61,604 ( 55,084 )						
Changes in operating assets and liabilities           Changes in operating assets         ( 197,576 ) ( 301,363 )           Financial assets at fair value through profit or loss         ( 292,336 ) ( 325,967 )           Notes receivable         ( 292,336 ) ( 325,967 )           Accounts receivable         1,755,519 ( 1,463,422 )           Other receivables         250,093 ( 1,246,730 )           Inventories         811,472 ( 213,393 )           Prepayments         62,438 ( 59,421 )           Other non-current assets         8,034 ( 4,135 )           Changes in operating liabilities         ( 311,126 ) ( 433,237 )           Notes payable         ( 311,126 ) ( 433,237 )           Other payables         ( 479,984 ) ( 402,911 )           Other current liabilities         ( 104,440 ) ( 175,704 )           Other non-current liabilities         ( 2598,772 ) ( 5,371,759 )           Income tax paid         ( 1,174 ) ( 157,529 )           Interest received         28,332 ( 33,297 )           Interest received         ( 35,895 ) ( 29,388 )           Dividend received         61,604 ( 55,084 )			(		(	85,787)
Changes in operating assets           Financial assets at fair value through profit or loss         ( 197,576 ) ( 301,363 )           Notes receivable         ( 292,336 ) ( 325,967 )           Accounts receivable         1,755,519 1,463,422           Other receivables         250,093 1,246,730           Inventories         811,472 213,393           Prepayments         62,438 59,421           Other non-current assets         8,034 4,135           Changes in operating liabilities         ( 5,299 ) ( 15,372 )           Notes payable         ( 311,126 ) ( 433,237 )           Other payables         ( 479,984 ) ( 402,911 )           Other current liabilities         ( 104,440 ) 175,704           Other non-current liabilities         262 22,624           Cash inflow generated from operations         2,598,772 5,371,759             Income tax paid         ( 1,174 ) ( 157,529 )           Interest received         28,332 33,297 (17,529 )           Interest paid         ( 35,895 ) ( 29,388 )           Dividend received         61,604 55,084			(	23,541)		-
Financial assets at fair value through profit or loss       ( 197,576 ) ( 301,363 )         Notes receivable       ( 292,336 ) ( 325,967 )         Accounts receivable       1,755,519 1,463,422         Other receivables       250,093 1,246,730         Inventories       811,472 213,393         Prepayments       62,438 59,421         Other non-current assets       8,034 4,135         Changes in operating liabilities       ( 5,299 ) ( 15,372 )         Notes payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084						
Notes receivable       ( 292,336 ) ( 325,967 )         Accounts receivable       1,755,519       1,463,422         Other receivables       250,093       1,246,730         Inventories       811,472       213,393         Prepayments       62,438       59,421         Other non-current assets       8,034       4,135         Changes in operating liabilities       ( 5,299 ) ( 15,372 )         Notes payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084						
Accounts receivable       1,755,519       1,463,422         Other receivables       250,093       1,246,730         Inventories       811,472       213,393         Prepayments       62,438       59,421         Other non-current assets       8,034       4,135         Changes in operating liabilities       (5,299) (15,372)         Notes payable       (311,126) (433,237)         Other payables       (479,984) (402,911)         Other current liabilities       (104,440)       175,704         Other non-current liabilities       262       22,624         Cash inflow generated from operations       2,598,772       5,371,759         Income tax paid       (1,174) (157,529)         Interest received       28,332       33,297         Interest paid       (35,895) (29,388)         Dividend received       61,604       55,084			*			
Other receivables       250,093       1,246,730         Inventories       811,472       213,393         Prepayments       62,438       59,421         Other non-current assets       8,034       4,135         Changes in operating liabilities       Total counts payable       ( 5,299 ) ( 15,372 )         Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084			(		(	
Inventories       811,472       213,393         Prepayments       62,438       59,421         Other non-current assets       8,034       4,135         Changes in operating liabilities       31,126       15,372         Notes payable       (311,126)       433,237         Other payables       (479,984)       402,911         Other current liabilities       104,440       175,704         Other non-current liabilities       262       22,624         Cash inflow generated from operations       2,598,772       5,371,759         Income tax paid       (1,174)       157,529         Interest received       28,332       33,297         Interest paid       (35,895)       29,388         Dividend received       61,604       55,084						
Prepayments         62,438         59,421           Other non-current assets         8,034         4,135           Changes in operating liabilities         Notes payable         ( 5,299 ) ( 15,372 )           Accounts payable         ( 311,126 ) ( 433,237 )           Other payables         ( 479,984 ) ( 402,911 )           Other current liabilities         ( 104,440 ) 175,704           Other non-current liabilities         262 22,624           Cash inflow generated from operations         2,598,772 5,371,759           Income tax paid         ( 1,174 ) ( 157,529 )           Interest received         28,332 33,297           Interest paid         ( 35,895 ) ( 29,388 )           Dividend received         61,604 55,084						
Other non-current assets       8,034       4,135         Changes in operating liabilities       Notes payable       ( 5,299 ) ( 15,372 )         Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084						
Changes in operating liabilities         Notes payable       ( 5,299 ) ( 15,372 )         Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084	1 7			,		
Notes payable       ( 5,299 ) ( 15,372 )         Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084				8,034		4,135
Accounts payable       ( 311,126 ) ( 433,237 )         Other payables       ( 479,984 ) ( 402,911 )         Other current liabilities       ( 104,440 ) 175,704         Other non-current liabilities       262 22,624         Cash inflow generated from operations       2,598,772 5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332 33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604 55,084	C 1 C					
Other payables       (       479,984 ) (       402,911 )         Other current liabilities       (       104,440 )       175,704          Other non-current liabilities       262       22,624          Cash inflow generated from operations       2,598,772       5,371,759          Income tax paid       (       1,174 ) (       157,529 )         Interest received       28,332       33,297          Interest paid       (       35,895 ) (       29,388 )         Dividend received       61,604       55,084			(		(	
Other current liabilities         (         104,440 )         175,704           Other non-current liabilities         262         22,624           Cash inflow generated from operations         2,598,772         5,371,759           Income tax paid         (         1,174 )         157,529 )           Interest received         28,332         33,297           Interest paid         (         35,895 )         29,388 )           Dividend received         61,604         55,084			(		(	433,237)
Other non-current liabilities         262         22,624           Cash inflow generated from operations         2,598,772         5,371,759           Income tax paid         ( 1,174 ) ( 157,529 )           Interest received         28,332         33,297           Interest paid         ( 35,895 ) ( 29,388 )           Dividend received         61,604         55,084			(	479,984)	(	402,911)
Cash inflow generated from operations       2,598,772       5,371,759         Income tax paid       ( 1,174 ) ( 157,529 )         Interest received       28,332       33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604       55,084			(	, ,		,
Income tax paid       (       1,174 ) (       157,529 )         Interest received       28,332       33,297         Interest paid       (       35,895 ) (       29,388 )         Dividend received       61,604       55,084	Other non-current liabilities					
Interest received       28,332       33,297         Interest paid       ( 35,895 ) ( 29,388 )         Dividend received       61,604       55,084	Cash inflow generated from operations					5,371,759
Interest paid       (       35,895 ) (       29,388 )         Dividend received       61,604	Income tax paid		(	1,174)	(	157,529)
Dividend received	Interest received					
	Interest paid		(	35,895)	(	29,388)
Net cash flows from operating activities 2 651 639 5 273 223						
	Net cash flows from operating activities			2,651,639		5,273,223

(Continued)

# <u>EPISTAR CORPORATION</u> <u>PARENT COMPANY ONLY STATEMENTS OF CASH FLOWS</u> <u>YEARS ENDED DECEMBER 31, 2019 AND 2018</u>

(Expressed in thousands of New Taiwan dollars)

	Notes		2019		2018
CASH FLOWS FROM INVESTING ACTIVITIES					
Increase in other receivables from related parties	7	(\$	1,872,620)	(\$	1,007,840)
Decrease in other receivables from related parties	7		1,764,032		1,013,300
Cash refund from financial assets capital reduction			23,903		-
Increase in other financial assets		(	4,440)	(	386)
Acquisition for property, plant and equipment	6(31)	(	1,865,194)	(	2,745,833)
Proceeds from disposal of property, plant and equipment	6(31)		159,467		98,355
Acquisition of intangible assets	6(31)	(	93,351)	(	155,153)
Proceeds from disposal intangible assets			11,569		-
(Increase) decrease in refundable deposits paid		(	526)		13,654
Acquisition of subsidiaries and investment of associates		(	908,978)	(	1,443,106)
Proceeds from disposal of intangible assets			-		7,844
Cash flows used in spinoff transition	6(18)		<u>-</u>	(	360,172)
Net cash flows used in investing activities		(	2,786,138)	(	4,579,337)
CASH FLOWS FROM FINANCING ACTIVITIES					
Decrease in short-term loans	6(12)	(	450,400)	(	250,705)
Repayment of long-term loans	6(14)	(	575,306)	(	3,239,824)
Proceeds from long-term loans	6(14)		990,000		1,160,000
Decrease in guarantee deposits received		(	1,782)	(	783)
Repayment of principal portion of lease liabilities		(	89,704)		-
Purchase of treasury shares	6(19)	(	114,482)	(	75,845)
Proceed from treasury share transferred to employees	6(18)		-		286,897
Cash dividends distributed from capital surplus	6(19)	(	324,270)	(	121,765)
Cash dividends paid	6(19)		<u>-</u>	(	749,196)
Net cash flows used in financing activities		(	565,944)	(	2,991,221)
Net decrease in cash and cash equivalents		(	700,443)	(	2,297,335)
Cash and cash equivalents at beginning of year			3,012,708		5,310,043
Cash and cash equivalents at end of year		\$	2,312,265	\$	3,012,708

The accompanying notes are an integral part of these parent company only financial statements.

#### **EPISTAR CORPORATION**

## NOTES TO THE PARENT COMPANY ONLY FINANCIAL STATEMENTS YEARS ENDED DECEMBER 31, 2019 AND 2018

## (EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS, EXCEPT AS OTHERWISE INDICATED)

#### 1. HISTORY AND ORGANIZATION

Epistar Corporation (the "Company") was incorporated on September 19, 1996 and commenced its operations in August 1997. The Company's shares have been traded on the Taiwan Stock Exchange in the Republic of China since May 2001.

Effective October 1, 2003, Inforcomm Semiconductor Corporation was merged with the Company. The Company acquired United Epitaxy Company Ltd. on December 30, 2005, Epitech Technology Corporation and Highlink Technology Corporation on March 1, 2007, and CHIP STAR Ltd. on June 29, 2015, and the Company merged with Huga Optotech Inc. and Formosa Epitaxy Incorporation on September 29, 2016.

The Company is engaged in the research and development, design, manufacturing and sales of EPI wafers and chips of A1GaInP, AlGaAs and InGaN.

## 2. THE DATE OF AUTHORIZATION FOR ISSUANCE OF THE PARENT COMPANY ONLY FINANCIAL STATEMENTS AND PROCEDURES FOR AUTHORIZATION

These parent company only financial statements were authorized for issuance by the Board of Directors on February 26, 2020.

#### 3. APPLICATION OF NEW STANDARDS, AMENDMENTS AND INTERPRETATIONS

(1) Effect of the adoption of new issuances of or amendments to International Financial Reporting Standards ("IFRS") as endorsed by the Financial Supervisory Commission ("FSC")

New standards, interpretations and amendments endorsed by the FSC effective from 2019 are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 9, 'Prepayment features with negative	January 1, 2019
compensation'	
IFRS 16, 'Leases'	January 1, 2019
Amendments to IAS 19, 'Plan amendment, curtailment or settlement'	January 1, 2019
Amendments to IAS 28, 'Long-term interests in associates and joint	January 1, 2019
ventures'	
IFRIC 23, 'Uncertainty over income tax treatments'	January 1, 2019
Annual improvements to IFRSs 2015-2017 cycle	January 1, 2019

Except for the following, the above standards and interpretations have no significant impact to the Company's financial condition and financial performance based on the Company's assessment.

#### IFRS 16, 'Leases'

- A. IFRS 16, 'Leases', replaces IAS 17, 'Leases' and related interpretations and SICs. The standard requires lessees to recognise a 'right-of-use asset' and a lease liability (except for those leases with terms of 12 months or less and leases of low-value assets). The accounting stays the same for lessors, which is to classify their leases as either finance leases or operating leases and account for those two types of leases differently. IFRS 16 only requires enhanced disclosures to be provided by lessors.
- B. The Group has elected to apply IFRS 16 by not restating the comparative information (referred herein as the 'modified retrospective approach') when applying "IFRSs" effective in 2019 as endorsed by the FSC. Accordingly, the Group increased 'right-of-use asset' by \$1,402,458, and increased 'lease liability' by \$1,402,458.
- C. The Group has used the following practical expedients permitted by the standard at the date of initial application of IFRS 16:
  - (a) Reassessment as to whether a contract is, or contains, a lease is not required, instead, the application of IFRS 16 depends on whether or not the contracts were previously identified as leases applying IAS 17 and IFRIC 4.
  - (b) The use of a single discount rate to a portfolio of leases with reasonably similar characteristics.
  - (c) The accounting for operating leases whose period will end before December 31, 2019 as short-term leases and accordingly, rent expense of \$13,217 was recognised in 2019.
  - (d) The exclusion of initial direct costs for the measurement of 'right-of-use asset'.
  - (e) The use of hindsight in determining the lease term where the contract contains options to extend or terminate the lease.
- D. The Group calculated the present value of lease liabilities by using the weighted average incremental borrowing interest rate of 1.855%.
- E. The Group recognised lease liabilities which had previously been classified as 'operating leases' under the principles of IAS 17, 'Leases'. The reconciliation between operating lease commitments under IAS 17 measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate and lease liabilities recognised as of January 1, 2019 is as follows:

Operating lease commitments disclosed by applying IAS 17 as at December	\$ 630,297
31, 2018	
Add/Less: Adjustments as a result of a different treatment of	
extension and termination options	 773,422
Total lease contracts amount recognised as lease liabilities by applying	
IFRS 16 on January 1, 2019	1,403,719
Incremental borrowing interest rate at the date of initial application	1.855%
Lease liabilities recognised as at January 1, 2019 by applying IFRS 16	\$ 1,402,458

## (2) Effect of new issuances of or amendments to IFRSs as endorsed by the FSC but not yet adopted by the Company

New standards, interpretations and amendments endorsed by the FSC effective from 2018 are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendment to IAS 1 and IAS 8, 'Disclosure Initiative-Definition of	January 1, 2020
Material'	
Amendments to IFRS 3, 'Definition of a business'	January 1, 2020
Amendments to IFRS 9, IAS 39 and IFRS 7, 'Interest rate benchmark	January 1, 2020
reform'	

The above standards and interpretations have no significant impact to the Company's financial condition and financial performance based on the Company's assessment.

#### (3) IFRSs issued by IASB but not yet endorsed by the FSC

New standards, interpretations and amendments issued by IASB but not yet included in the IFRSs endorsed by the FSC are as follows:

	Effective date by
	International Accounting
New Standards, Interpretations and Amendments	Standards Board
Amendments to IFRS 10 and IAS 28, 'Sale or contribution of assets	To be determined by
between an investor and its associate or joint venture'	International Accounting
	Standards Board
IFRS 17, 'Insurance contracts'	January 1, 2021
Amendments to IAS 1, 'Classification of liabilities as current or	January 1, 2022
noncurrent'	

The above standards and interpretations have no significant impact to the Company's financial condition and financial performance based on the Company's assessment.

#### 4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The principal accounting policies applied in the preparation of these parent company only financial statements are set out below. These policies have been consistently applied to all the periods presented, unless otherwise stated.

#### (1) Compliance statement

The parent company only financial statements of the Company have been prepared in accordance with the "Regulations Governing the Preparation of Financial Reports by Securities Issuers".

#### (2) Basis of preparation

- A. Except for the following items, these parent company only financial statements have been prepared under the historical cost convention:
  - (a) Financial assets and financial liabilities at fair value through profit or loss.

- (b) Financial assets at fair value through other comprehensive income.
- (c) Defined benefit liabilities recognized based on the net amount of pension fund assets less present value of defined benefit obligation.
- B. The preparation of financial statements in compliance with International Financial Reporting Standards, International Accounting Standards, IFRIC Interpretations, and SIC Interpretations as endorsed by the FSC (collectively referred herein as the "IFRSs") requires the use of certain critical accounting estimates. It also requires management to exercise its judgment in the process of applying the Company's accounting policies. The areas involving a higher degree of judgment or complexity, or areas where assumptions and estimates are significant to the parent company only financial statements are disclosed in Note 5.

#### (3) Foreign currency translation

Items included in the financial statements of the Company is measured using the currency of the primary economic environment in which the operates (the "functional currency"). The parent company only financial statements are presented in New Taiwan dollars, which is the Company's functional currency.

A.Foreign currency transactions and balances

- (a) Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are remeasured. Foreign exchange gains and losses resulting from the settlement of such transactions are recognized in profit or loss in the period in which they arise.
- (b) Monetary assets and liabilities denominated in foreign currencies at the period end are retranslated at the exchange rates prevailing at the balance sheet date. Exchange differences arising upon re-translation at the balance sheet date are recognized in profit or loss.
- (c) Non-monetary assets and liabilities denominated in foreign currencies held at fair value through profit or loss are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in profit or loss as part of the fair value gain or loss. Non-monetary assets and liabilities denominated in foreign currencies held at fair value through other comprehensive income are re-translated at the exchange rates prevailing at the balance sheet date; their translation differences are recognized in other comprehensive income. However, non-monetary assets and liabilities denominated in foreign currencies that are not measured at fair value are translated using the historical exchange rates at the dates of the initial transactions.
- (d) Foreign exchange gains and losses that relate to borrowings and cash and cash equivalents are presented in the statement of comprehensive income within "interest income or finance costs". All other foreign exchange gains and losses based on the nature of those transactions are presented in the statement of comprehensive income within "other gains and losses".

#### B. Translation of foreign operations

- (a) The operating results and financial position of all the group entities, associates and joint arrangements that have a functional currency different from the presentation currency are translated into the presentation currency as follows:
  - i. Assets and liabilities for each balance sheet presented are translated at the closing exchange rate at the date of that balance sheet;
  - ii. Income and expenses for each statement of comprehensive income are translated at average exchange rates of that period; and
  - iii. All resulting exchange differences are recognised in other comprehensive income.
- (b) When the foreign operation partially disposed of or sold is an associate or joint arrangement, exchange differences that were recorded in other comprehensive income are proportionately reclassified to profit or loss as part of the gain or loss on sale. In addition, even when the Group retains partial interest in the former foreign associate or joint arrangement after losing significant influence over the former foreign associate, or losing joint control of the former joint arrangement, such transactions should be accounted for as disposal of all interest in these foreign operations.
- (c) When the foreign operation partially disposed of or sold is a subsidiary, cumulative exchange differences that were recorded in other comprehensive income are proportionately transferred to the non-controlling interest in this foreign operation. In addition, even when the Group retains partial interest in the former foreign subsidiary after losing control of the former foreign subsidiary, such transactions should be accounted for as disposal of all interest in the foreign operation.
- (d) Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing exchange rates at the balance sheet date.

#### (4) Classification of current and non-current items

- A. Assets that meet one of the following criteria are classified as current assets; otherwise they are classified as non-current assets:
  - (a) Assets arising from operating activities that are expected to be realized, or are intended to be sold or consumed within the normal operating cycle;
  - (b) Assets held mainly for trading purposes;
  - (c) Assets that are expected to be realized within twelve months from the balance sheet date;
  - (d) Cash and cash equivalents, excluding restricted cash and cash equivalents and those that are to be exchanged or used to pay off liabilities more than twelve months after the balance sheet date.
- B. Liabilities that meet one of the following criteria are classified as current liabilities; otherwise they are classified as non-current liabilities:
  - (a) Liabilities that are expected to be settled within the normal operating cycle;

- (b) Liabilities arising mainly from trading activities;
- (c) Liabilities that are to be settled within twelve months from the balance sheet date;
- (d) Liabilities for which the repayment date cannot be extended unconditionally to more than twelve months after the balance sheet date. Terms of a liability that could, at the option of the counterparty, result in its settlement by the issue of equity instruments do not affect its classification.

#### (5) Cash equivalents

Cash equivalents refer to short-term, highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of changes in value. Time deposits that meet the definition above and are held for the purpose of meeting short-term cash commitments in operations are classified as cash equivalents.

#### (6) Financial assets at fair value through profit or loss

- A. Financial assets at fair value through profit or loss are financial assets that are not measured at amortised cost or fair value through other comprehensive income.
- B. On a regular way purchase or sale basis, the derivative financial assets are recognised and derecognised using trade date accounting, the beneficiary certificates are recognised and derecognised using settlement date accounting.
- C. At initial recognition, the Company measures the financial liabilities at fair value. All related transaction costs are recognised in profit or loss. The Company subsequently measures these financial liabilities at fair value with any gain or loss recognised in profit or loss.
- D. The Company recognises the dividend income when the right to receive payment is established, future economic benefits associated with the dividend will flow to the Company and the amount of the dividend can be measured reliably.

#### (7) Financial assets at fair value through other comprehensive income

- A. Financial assets at fair value through other comprehensive income comprise equity securities which are not held for trading, and for which the Company has made an irrevocable election at initial recognition to recognise changes in fair value in other comprehensive income and debt instruments which meet all of the following criteria:
  - (a) The objective of the Company's business model is achieved both by collecting contractual cash flows and selling financial assets; and
  - (b) The assets' contractual cash flows represent solely payments of principal and interest.
- B. On a regular way purchase or sale basis, financial assets at fair value through other comprehensive income are recognised and derecognised using trade date accounting.
- C. At initial recognition, the Company measures the financial assets at fair value plus transaction costs. The Company subsequently measures the financial assets at fair value:
  - The changes in fair value of equity investments that were recognised in other comprehensive income are reclassified to retained earnings and are not reclassified to profit or loss following the derecognition of the investment. Dividends are recognised as revenue when the right to receive

payment is established, future economic benefits associated with the dividend will flow to the Company and the amount of the dividend can be measured reliably.

#### (8) Accounts and notes receivable

- A. Accounts and notes receivable entitle the Company a legal right to receive consideration in exchange for transferred goods or rendered services.
- B. The short-term accounts and notes receivable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (9) Impairment of financial assets

For debt instruments measured at fair value through other comprehensive income and financial assets at amortised cost including accounts receivable or contract assets that have a significant financing component, lease receivables, loan commitments and financial guarantee contracts, at each reporting date, the Company recognises the impairment provision for 12 months expected credit losses if there has not been a significant increase in credit risk since initial recognition or recognises the impairment provision for the lifetime expected credit losses (ECLs) if such credit risk has increased since initial recognition after taking into consideration all reasonable and verifiable information that includes forecasts. On the other hand, for accounts receivable or contract assets that do not contain a significant financing component, the Company recognises the impairment provision for lifetime ECLs.

#### (10) Derecognition of financial assets

The Company derecognizes a financial asset when one of the following conditions is met:

- A. The contractual rights to receive cash flows from the financial asset expire.
- B. The contractual rights to receive cash flows from the financial assets have been transferred and the Company has transferred substantially all risks and rewards of ownership of the financial assets.
- C. The Company neither retains nor transfers substantially all risks and rewards of ownership of the financial asset; however, it has not retained control of the financial asset.

#### (11) <u>Leasing arrangements (lessor)—lease receivables/operating leases</u>

- A. Based on the terms of a lease contract, a lease is classified as a finance lease if the lessee assumes substantially all the risks and rewards incidental to ownership of the leased asset.
  - (a) At commencement of the lease term, the lessor should record a finance lease in the balance sheet as 'lease receivables' at an amount equal to the net investment in the lease (including initial direct costs). The difference between gross lease receivable and the present value of the receivable is recognized as 'unearned finance income of finance lease'.
  - (b) The lessor should allocate finance income over the lease term based on a systematic and rational basis reflecting a constant periodic rate of return on the lessor's net investment in the finance lease.
  - (c) Lease payments(excluding costs for services) during the lease term are applied against the gross investment in the lease to reduce both the principal and the unearned finance income.

B. Lease income from an operating lease (net of any incentives given to the lessee) is recognized in profit or loss on a straight-line basis over the lease term.

#### (12) Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the weighted-average method. The cost of finished goods and work in progress comprise raw materials, direct labor, other direct costs and related production overheads (allocated based on normal operating capacity). It excludes borrowing costs and the item by item approach is used in applying the lower of cost and net realizable value. Net realizable value is the estimated selling price in the ordinary course of business, less the estimated cost of completion and applicable variable selling expenses.

#### (13) Non-current assets held for sale

Non-current assets are classified as assets held for sale when their carrying amount is to be recovered principally through a sale transaction rather than through continuing use, and a sale is considered highly probable. They are stated at the lower of carrying amount and fair value less costs to sell.

#### (14) <u>Investments accounted for using the equity method – subsidiaries and associates</u>

- A. Subsidiaries are all entities (including structured entities) controlled by the Company. The Company controls an entity when the Company is exposed, or has rights, to variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.
- B. Inter-company transactions, balances and unrealised gains or losses on transactions between companies within the Company are eliminated. Accounting policies of subsidiaries have been adjusted where necessary to ensure consistency with the policies adopted by the Company.
- C. The Company's share of its associates' post-acquisition profits or losses is recognised in profit or loss, and its share of post-acquisition movements in other comprehensive income is recognised in other comprehensive income. When the Company's share of losses in a subsidiary equals or exceeds its interest in the subsidiary, the Company continues to recognise losses proportionate to its ownership.
- D. Changes in a parent's ownership interest in a subsidiary that do not result in the parent losing control of the subsidiary (transactions with non-controlling interests) are accounted for as equity transactions, i.e. transactions with owners in their capacity as owners. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognised directly in equity.
- E. When the Company loses control of a subsidiary, the Company remeasures any investment retained in the former subsidiary at its fair value. That fair value is regarded as the fair value on initial recognition of a financial asset or the cost on initial recognition of the associate or joint venture. Any difference between fair value and carrying amount is recognised in profit or loss. All amounts previously recognised in other comprehensive income in relation to the subsidiary are reclassified to profit or loss on the same basis as would be required if the related assets or

liabilities were disposed of. That is, when the Company loses control of a subsidiary, all gains or losses previously recognised in other comprehensive income in relation to the subsidiary should be reclassified from equity to profit or loss, if such gains or losses would be reclassified to profit or loss when the related assets or liabilities are disposed of.

- F. Associates are all entities over which the Company has significant influence but not control. In general, it is presumed that the investor has significant influence, if an investor holds, directly or indirectly 20 percent or more of the voting power of the investee. Investments in associates are accounted for using the equity method and are initially recognised at cost.
- G. The Company's share of its associates' post-acquisition profits or losses is recognized in profit or loss, and its share of post-acquisition movements in other comprehensive income is recognized in other comprehensive income. When the Company's share of losses in an associate equals or exceeds its interest in the associate, including any other unsecured receivables, the Company does not recognize further losses, unless it has incurred legal or constructive obligations or made payments on behalf of the associate.
- H. When changes in an associate's equity that are not recognized in profit or loss or other comprehensive income of the associate and such changes does not affect the Company's ownership percentage of the associate, the Company recognizes change in ownership interests in the associate in 'capital surplus' in proportion to its ownership.
- I. Unrealized gains on transactions between the Company and its associates are eliminated to the extent of the Company's interest in the associates. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been adjusted where necessary to ensure consistency with the policies adopted by the Company.
- J. In the case that an associate issues new shares and the Company does not subscribe or acquire new shares proportionately, which results in a change in the Company's ownership percentage of the associate but maintains significant influence on the associate, then 'capital surplus' and 'investments accounted for under the equity method' shall be adjusted for the increase or decrease of its share of equity interest. If the above condition causes a decrease in the Company's ownership percentage of the associate, in addition to the above adjustment, the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately on the same basis as would be required if the relevant assets or liabilities were disposed of.
- K. Upon loss of significant influence over an associate, the Company remeasures any investment retained in the former associate at its fair value. Any difference between fair value and carrying amount is recognized in profit or loss.
- L. When the Company disposes its investment in an associate, if it loses significant influence over this associate, the amounts previously recognized in other comprehensive income in relation to the associate, are reclassified to profit or loss, on the same basis as would be required if the

relevant assets or liabilities were disposed of. If it still retains significant influence over this associate, then the amounts previously recognized in other comprehensive income in relation to the associate are reclassified to profit or loss proportionately in accordance with the aforementioned approach.

- M. When the Company disposes its investment in an associate, if it loses significant influence over this associate, the amounts previously recognized as capital surplus in relation to the associate are transferred to profit or loss. If it still retains significant influence over this associate, then the amounts previously recognized as capital surplus in relation to the associate are transferred to profit or loss proportionately.
- N. Pursuant to the "Regulations Governing the Preparation of Financial Reports by Securities Issuers," profit (loss) of the current period and other comprehensive income in the non-consolidated financial statements shall equal to the amount attributable to owners of the parent in the financial statements prepared with basis for consolidation. Owners' equity in the non-consolidated financial statements shall equal to equity attributable to owners of the parent in the financial statements prepared with basis for consolidation.

#### (15) Property, plant and equipment

- A. Property, plant and equipment are initially recorded at cost. Borrowing costs incurred during the construction period are capitalized.
- B. Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.
- C. Land is not depreciated. Other property, plant and equipment apply cost model and are depreciated using the straight-line method to allocate their cost over their estimated useful lives. Each part of an item of property, plant, and equipment with a cost that is significant in relation to the total cost of the item must be depreciated separately.
- D. The assets' residual values, useful lives and depreciation methods are reviewed, and adjusted if appropriate, at each financial year-end. If expectations for the assets' residual values and useful lives differ from previous estimates or the patterns of consumption of the assets' future economic benefits embodied in the assets have changed significantly, any change is accounted for as a change in estimate under IAS 8, 'Accounting Policies, Changes in Accounting Estimates and Errors', from the date of the change.

The estimated useful lives of property, plant and equipment are as follows:

Buildings and structures	$20 \sim 50 \text{ years}$
Plant and construction	$3 \sim 15 \text{ years}$
Machinery and equipment	$2 \sim 20$ years
Transportation equipment	$3 \sim 5 \text{ years}$
Office equipment	$2 \sim 20$ years
Leasehold improvements	$3 \sim 15 \text{ years}$

#### (16) <u>Leasing arrangements(lessee) – right-of-use assets/lease liabilities</u>

#### Effective 2019

- A. Leases are recognized as a right-of-use asset and a corresponding lease liability at the date at which the leased asset is available for use by the Group. For short-term leases or leases of low-value assets, lease payments are recognized as an expense on a straight-line basis over the lease term.
- B. Lease liabilities include the net present value of the remaining lease payments at the commencement date, discounted using the incremental borrowing interest rate.

Lease payments are comprised of the following:

- (a) Fixed payments, less any lease incentives receivable;
- (b) Variable lease payments that depend on an index or a rate; and
- (c) Payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

The Group subsequently measures the lease liability at amortised cost using the interest method and recognizes interest expense over the lease term. The lease liability is remeasured and the amount of remeasurement is recognised as an adjustment to the right-of-use asset when there are changes in the lease term or lease payments and such changes do not arise from contract modifications.

- C. At the commencement date, the right-of-use asset is stated at cost comprising the following:
  - (a) The amount of the initial measurement of lease liability;
  - (b) Any lease payments made at or before the commencement date;
  - (c) Any initial direct costs incurred by the lessee; and
  - (d) An estimate of costs to be incurred by the lessee in dismantling and removing the underlying asset, restoring the site on which it is located or restoring the underlying asset to the condition required by the term and conditions of the lease.

The right-of-use asset is measured subsequently using the cost model and is depreciated from the commencement date to the earlier of the asset's useful life or the end of the lease term. When the lease liability is remeasured, the amount of remeasurement is recognized as an adjustment to the right-of -use asset.

#### (17) Leased assets

#### Prior to 2019

Payments made under an operating lease (net of any incentives received from the lessor) are recognized in profit or loss on a straight-line basis over the lease term.

#### (18) <u>Intangible assets</u>

#### A. Patents

Patents are stated at cost and amortized on a straight-line basis over their legal terms or economic service lives, whichever is shorter.

#### B. Technology know-how

Technology know-how is stated at cost and amortized on a straight-line basis over their economic service lives.

#### C. Computer software

Computer software is stated at cost and amortized on a straight-line basis over their estimated useful lives of  $2 \sim 10$  years.

#### D. Goodwill

Goodwill arising from a business combination is accounted for by applying the acquisition method.

#### E. Other intangible assets

Other intangible assets, mainly electricity facilities, are stated at cost and amortized using the straight-line method over 3 to 5 years.

#### (19) Impairment of non-financial assets

- A. The Company assesses at each balance sheet date the recoverable amounts of those assets where there is an indication that they are impaired. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell or value in use. Except for goodwill, when the circumstances or reasons for recognizing impairment loss for an asset in prior years no longer exist or diminish, the impairment loss is reversed. The increased carrying amount due to reversal should not be more than what the depreciated or amortized historical cost would have been if the impairment had not been recognized.
- B. The recoverable amounts of goodwill, intangible assets with an indefinite useful life and intangible assets that have not yet been available for use are evaluated periodically. An impairment loss is recognized for the amount by which the asset's carrying amount exceeds its recoverable amount. Impairment loss of goodwill previously recognized in profit or loss shall not be reversed in the following years.
- C. For the purpose of impairment testing, goodwill acquired in a business combination is allocated to each of the cash-generating units, or groups of cash-generating units, that is/are expected to benefit from the synergies of the business combination. Each unit or group of units to which the goodwill is allocated represents the lowest level within the entity at which the goodwill is

monitored for internal management purposes. Goodwill is monitored at the operating segment level.

#### (20) Borrowings

- A. Borrowings comprise long-term and short-term bank borrowings. Borrowings are recognised initially at fair value, net of transaction costs incurred. Borrowings are subsequently stated at amortised cost; any difference between the proceeds (net of transaction costs) and the redemption value is recognised in profit or loss over the period of the borrowings using the effective interest method.
- B. Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it is probable that some or all of the facility will be drawn down. In this case, the fee is deferred until the draw-down occurs. To the extent there is no evidence that it is probable that some or all of the facility will be drawn down, the fee is capitalised as a pre-payment for liquidity services and amortised over the period of the facility to which it relates.

#### (21) Notes and accounts payable

- A. Accounts payable are liabilities for purchases of raw materials, goods or services and notes payable are those resulting from operating and non-operating activities.
- B. The short-term notes and accounts payable without bearing interest are subsequently measured at initial invoice amount as the effect of discounting is immaterial.

#### (22) Employee benefits

#### A. Short-term employee benefits

Short-term employee benefits are measured at the undiscounted amount of the benefits expected to be paid in respect of service rendered by employees in a period and should be recognized as expenses in that period when the employees render service.

#### B. Pensions

#### (a) Defined contribution plans

For defined contribution plans, the contributions are recognized as pension expenses when they are due on an accrual basis. Prepaid contributions are recognized as an asset to the extent of a cash refund or a reduction in the future payments.

#### (b) Defined benefit plans

i. Net obligation under a defined benefit plan is defined as the present value of an amount of pension benefits that employees will receive on retirement for their services with the Company in current period or prior periods. The liability recognized in the balance sheet in respect of defined benefit pension plans is the present value of the defined benefit obligation at the balance sheet date less the fair value of plan assets. The defined benefit net obligation is calculated annually by independent actuaries using the projected unit credit method. The rate used to discount is determined by using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related pension liability; when there is no

deep market in high-quality corporate bonds, the Company uses interest rates of government bonds (at the balance sheet date) instead.

- ii. Remeasurement arising on defined benefit plans are recognized in other comprehensive income in the period in which they arise and are recorded as retained earnings.
- iii. Past service costs are recognized immediately in profit or loss.

#### C. Termination benefits

Termination benefits are employee benefits provided in exchange for the termination of employment as a result from either the Company's decision to terminate an employee's employment before the normal retirement date, or an employee's decision to accept an offer of redundancy benefits in exchange for the termination of employment. The Company recognizes expense as it can no longer withdraw an offer of termination benefits or it recognises relating restructuring costs, whichever is earlier. Benefits that are expected to be due more than 12 months after balance sheet date shall be discounted to their present value.

D. Employees' compensation and directors' and supervisors' remuneration

Employees' compensation and directors' and supervisors' remuneration are recognized as
expenses and liabilities, provided that such recognition is required under legal obligation or
constructive obligation and those amounts can be reliably estimated. Any difference between the
resolved amounts and the subsequently actual distributed amounts is accounted for as changes in
estimates.

#### (23) Employee share-based payment

A. For the equity-settled share-based payment arrangements, the employee services received are measured at the fair value of the equity instruments granted at the grant date, and are recognized as compensation cost over the vesting period, with a corresponding adjustment to equity. The fair value of the equity instruments granted shall reflect the impact of market vesting conditions and non-market vesting conditions. Compensation cost is subject to adjustment based on the service conditions that are expected to be satisfied and the estimates of the number of equity instruments that are expected to vest under the non-market vesting conditions at each balance sheet date. And ultimately, the amount of compensation cost recognized is based on the number of equity instruments that eventually vest.

#### B. Treasury stocks transferred to employees:

- (a) Restricted stocks issued to employees are measured at the fair value of the equity instruments granted at the grant date, and are recognised as compensation cost over the vesting period.
- (b) For treasury stocks where employees have to pay to acquire those stocks, if employees resign during the vesting period, they must compensate the Company for the difference between the fair value of the equity instruments and their payments on the stocks.

#### (24) Income tax

A. The tax expense for the period comprises current and deferred tax. Tax is recognized in profit or loss, except to the extent that it relates to items recognized in other comprehensive income or

- items recognized directly in equity, in which cases the tax is recognized in other comprehensive income or equity.
- B. The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the balance sheet date in the countries where the Company and its subsidiaries operate and generate taxable income. Management periodically evaluates positions taken in tax returns with respect to situations in accordance with applicable tax regulations. It establishes provisions where appropriate based on the amounts expected to be paid to the tax authorities. An additional tax is levied on the unappropriated retained earnings and is recorded as income tax expense in the year when the stockholders resolve to retain the earnings.
- C. Deferred income tax is recognized, using the balance sheet liability method, on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the parent company only financial statements. However, the deferred income tax is not accounted for if it arises from initial recognition of goodwill or of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred income tax is provided on temporary differences arising on investments in subsidiaries and associates, except where the timing of the reversal of the temporary difference is controlled by the Company and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantially enacted by the balance sheet date and are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled.
- D. Deferred income tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilized. At each balance sheet date, unrecognized and recognized deferred income tax assets are reassessed.
- E. A deferred tax asset shall be recognised for the carryforward of unused tax credits resulting from acquisitions of equipment or technology, research and development expenditures and equity investments to the extent that it is possible that future taxable profit will be available against which the unused tax credits can be utilised.

#### (25) Share capital

- A. Ordinary shares are classified as equity. Incremental costs directly attributable to the issue of new shares or stock options are shown in equity as a deduction, net of tax, from the proceeds.
- B. Where the Company repurchases the Company's equity share capital that has been issued, the consideration paid, including any directly attributable incremental costs (net of income taxes) is deducted from equity attributable to the Company's equity holders. Where such shares are subsequently reissued, the difference between their book value and any consideration received, net of any directly attributable incremental transaction costs and the related income tax effects, is included in equity attributable to the Company's equity holders.

#### (26) Dividends

Dividends are recorded in the Company's financial statements in the period in which they are resolved by the Company's shareholders. Cash dividends are recorded as liabilities.

#### (27) Revenue recognition

#### A. Sales of goods:

- (a) The Company is engaged in the research, development and sales of EPI wafers and chips of AlGaInP, AlGaAs and InGaN. Sales are recognised when control of the products has transferred, being when the products are delivered to the customer, the wholesaler has full discretion over the channel and price to sell the products, and there is no unfulfilled obligation that could affect the customer's acceptance of the products. Delivery occurs when the products have been shipped to the specific location, the risks of obsolescence and loss have been transferred to the wholesaler, and either the customer has accepted the products in accordance with the sales contract, or the Company has objective evidence that all criteria for acceptance have been satisfied.
- (b) Sales revenue is recognised on the net amount of contract price after deduction of sales discounts and allowances. The sales discounts and allowances were offered to customers based on aggregate sales over a 12-month period. Accumulated experience is used to estimate and provide for the sales discounts and allowances, using the expected value method, and revenue is only recognised to the extent that it is highly probable that a significant reversal will not occur. The estimation is subject to an assessment at each reporting date. A refund liability is recognised for expected sales discounts and allowances payable to customers in relation to sales made until the end of the reporting period. No element of financing is deemed present as the sales are made with a credit term of 90 days to 120 days, which is consistent with market practice.
- (c) The Company's obligation to provide a refund for faulty products under the standard warranty terms is recognised as a provision.
- (d) A receivable is recognised when the goods are delivered as this is the point in time that the consideration is unconditional because only the passage of time is required before the payment is due.

#### B. Revenue from licencing intellectual property

(a) The Company entered into a contract with a customer to grant a licence of patents and intellectual property to the customer. Given the licence is distinct from other promised goods or services in the contract, the Company recognises the revenue from licencing when the licence transfer to a customer either at a point in time or over time based on the nature of the licence granted. The nature of the Company's promise in granting a licence is a promise to provide a right to access the Company's intellectual property if the Company undertakes activities that significantly affect the patents and intellectual property to which the customer has rights, the customer is affected by the Company's activities and those activities do not

result in the transfer of a good or a service to the customer as they occur. The royalties are recognised as revenue on a straight-line basis throughout the licencing period. In case the abovementioned conditions are not met, the nature of the Group's promise in granting a licence is a promise to provide a right to use the Group's intellectual property and therefore the revenue is recognised when transferring the licence to a customer at a point in time.

(b) Some contracts require a sales-based royalty in exchange for a licence of intellectual property. The Company recognises revenue when the performance obligation has been satisfied and the subsequent sale occurs.

#### C. Incremental costs of obtaining a contract

Given that the contractual period lasts less than one year, the Company recognises the incremental costs of obtaining a contract as an expense when incurred although the Company expects to recover those costs.

#### (28) Government grants

Government grants are recognized at their fair value only when there is reasonable assurance that the Company will comply with any conditions attached to the grants and the grants will be received. Government grants are recognized in profit or loss on a systematic basis over the periods in which the Company recognizes expenses for the related costs for which the grants are intended to compensate. Government grants related to property, plant and equipment are recognized as non-current liabilities and are amortized to profit or loss over the estimated useful lives of the related assets using the straight-line method.

### 5. <u>CRITICAL ACCOUNTING JUDGEMENTS</u>, <u>ESTIMATES AND KEY SOURCES OF</u> A SSUMPTION UNCERTAINTY

The preparation of these parent company only financial statements requires management to make critical judgements in applying the Company's accounting policies and make critical assumptions and estimates concerning future events. Assumptions and estimates may differ from the actual results and are continually evaluated and adjusted based on historical experience and other factors. Such assumptions and estimates have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year; and the related information is addressed below:

(1) <u>Critical judgments in applying the Company's accounting policies</u> None.

#### (2) Critical accounting estimates and assumptions

#### A. Impairment valuation of goodwill, property, plant and equipment

In assessing assets impairment valuation, the Company estimates useful lives of assets and possible income and expenses in the future based on the Company's subjective judgement, any changes in economic condition and strategy of the Company will affect the recoverable amount, please refer to Note 6(10).

As of December 31, 2019, the Company recognised impaired property, plant and equipment of \$13,389,354 and goodwill of \$6,324,659.

#### B. Realizability of deferred income tax assets

Deferred income tax assets are recognized only to the extent that it is probable that future taxable profit will be available against which the deductible temporary differences can be utilized. Assessment of the realizability of deferred income tax assets involves critical accounting judgments and estimates of the management, including the assumptions of expected future sales revenue growth rate and profit rate, available tax credits, tax planning, and etc. Any variations in global economic environment, industrial environment, and laws and regulations might cause material adjustments to deferred income tax assets.

As of December 31, 2019, the Company recognized deferred income tax assets amounting to \$3,498,489.

#### C. Evaluation of inventories

As inventories are stated at the lower of cost and net realizable value, the Company must determine the net realizable value of inventories on balance sheet date using judgements and estimates. Due to the rapid technology innovation, the Company evaluates the amounts of normal inventory consumption, obsolete inventories or inventories without market selling value on balance sheet date, and writes down the cost of inventories to the net realizable value. Such an evaluation of inventories is principally based on the demand for the products within the specified period in the future. Therefore, there might be material changes to the evaluation.

As of December 31, 2019, the carrying amount of inventories was \$2,066,971.

#### D. Financial assets—fair value measurement of unlisted stocks without active market

The fair value of unlisted stocks held by the Company that are not traded in an active market is determined by considering those companies' recent funding raising activities and technical development status, fair value assessment of other companies of the same type, market conditions and other economic indicators existing on balance sheet date. Any changes in these judgements and estimates will impact the fair value measurement of these unlisted stocks. Please refer to Note 12(3) for the financial instruments fair value information.

As of December 31, 2019, the carrying amount of unlisted stocks was \$1,438,622.

#### 6. DETAILS OF SIGNIFICANT ACCOUNTS

#### (1) Cash and cash equivalents

	Dece	mber 31, 2019	December 31, 2018	
Cash on hand and revolving funds	\$	\$ 11		14
Checking accounts and demand deposits		1,207,317		549,672
Time deposits		922,935		1,453,000
Bonds sold under repurchase agreement		182,002		1,010,022
•	\$	2,312,265	\$	3,012,708

The Company transacts with a variety of financial institutions all with high credit quality to disperse credit risk, so it expects that the probability of counterparty default is remote.

#### (2) Financial assets at fair value through profit or loss

	December 31, 2019		December 31, 2018	
Current items				
Financial assets mandatorily measured at fair				
value through profit or loss				
Listed stocks	\$	193,778	\$	39,715
Valuation adjustment		56,122		1,208
-		249,900		40,923
Non-current items:		_		_
Financial assets mandatorily measured at fair				
value through profit or loss				
Unlisted stocks		130,172		121,722
Valuation adjustment		27,590	(	121,722)
•		157,762		-
	\$	407,662	\$	40,923

- A. The net gain recognized by the Company amounted to \$193,066 and \$4,504, respectively for the years ended December 31, 2019 and 2018.
- B. Information on credit risk of financial assets at fair value through profit or loss is provided in Notes 12(2) and (3).

### (3) Financial assets at fair value through other comprehensive income

<u>Items</u>	Decei	December 31, 2019		December 31, 2018		
Non-current items:						
Equity instruments						
Listed stocks	\$	429,217	\$	429,217		
Emerging stocks		-		25,218		
Unlisted stocks		1,323,459		1,298,241		
		1,752,676		1,752,676		
Valuation adjustment	(	286,839)	(	654,759)		
·	\$	1,465,837	\$	1,097,917		

A. Amounts recognized in profit or loss and other comprehensive income in relation to the financial assets at fair value through other comprehensive income are listed below:

Years ended December 31				
	2019		2018	
\$	367,920	(\$	468,008)	
	_		_	
\$		\$	<u> </u>	
\$	13,789	\$	12,910	
	\$ \$ \$	\$ 367,920 \$ -	\$ 367,920 (\$ \$ - \$	

B. As at December 31 2019 and 2018, without taking into account any collateral held or other credit enhancements, the maximum exposure to credit risk in respect of the amount that best represents

- the financial assets at fair value through other comprehensive income held by the Company was \$1,465,837 and \$1,097,917, respectively.
- C. Information relating to credit risk of financial assets at fair value through other comprehensive income is provided in Notes 12(2) and (3).

#### (4) Notes and accounts receivable

	Dece	mber 31, 2019	December 31, 2018	
Notes receivable	\$	813,367	\$	521,031
Less: Allowance for uncollectible accounts				<u>-</u>
	\$	813,367	\$	521,031
Accounts receivable	\$	3,896,435	\$	4,095,798
Less: Allowance for uncollectible accounts	(	333)	(	19,254)
	\$	3,896,102	\$	4,076,544

A. The ageing analysis of accounts receivable and notes receivable that were past due but not impaired is as follows:

	December 31, 2019					December 3	31, 20	18
	Acco	unts receivable	Note	es receivable	Acco	unts receivable	Note	s receivable
Not past due	\$	3,651,561	\$	813,367	\$	3,859,663	\$	458,619
Up to 30 days		162,104		-		160,074		62,412
31 to 90 days		23,291		-		33,401		_
91 to 180 days		15,389		-		28,713		-
Over 180 days		44,090		<u>-</u>		13,947		_
-	\$	3,896,435	\$	813,367	\$	4,095,798	\$	521,031

The above ageing analysis was based on past due date.

- B. The Company holds bank deposits, commercial papers, financial assets as well as machinery and equipment as collateral for accounts receivable. The fair values of the collateral held cannot be reasonably estimated by the Company since it is impracticable to assess the fair values.
- C. Information on credit risk of accounts receivable and notes receivable is provided in Note 12(2).

#### (5) <u>Inventories</u>

		Γ	December 31, 2019			
	Cost		Allowance for valuation loss		Book value	
\$	415,435	(\$	34,673)	\$	380,762	
	1,054,976	(	186,239)		868,737	
	1,119,442	(	301,970)		817,472	
\$	2,589,853	(\$	522,882)	\$	2,066,971	
December 31, 2018						
Allowance for						
	Cost		valuation loss		Book value	
\$	785,232	(\$	32,559)	\$	752,673	
	1,212,443	(	213,584)		998,859	
	1,630,100	(	497,097)		1,133,003	
\$	3,627,775	( <u>\$</u>	743,240)	\$	2,884,535	
	\$	\$ 415,435 1,054,976 1,119,442 \$ 2,589,853 Cost \$ 785,232 1,212,443 1,630,100	Cost \$ 415,435 (\$ 1,054,976 ( 1,119,442 ( \$ 2,589,853 (\$ E	Cost         valuation loss           \$ 415,435 (\$ 34,673)           1,054,976 (186,239)           1,119,442 (301,970)           \$ 2,589,853 (\$ 522,882)           December 31, 2018           Allowance for valuation loss           \$ 785,232 (\$ 32,559)           1,212,443 (213,584)           1,630,100 (497,097)	Cost         Allowance for valuation loss           \$ 415,435         (\$ 34,673)           \$ 1,054,976         ( 186,239)           \$ 1,119,442         ( 301,970)           \$ 2,589,853         (\$ 522,882)           \$ December 31, 2018           Allowance for valuation loss           \$ 785,232         (\$ 32,559)           \$ 1,212,443         ( 213,584)           \$ 1,630,100         ( 497,097)	

Expense and loss incurred on inventories for the years ended December 31, 2019 and 2018 were as follows:

	Years ended December 31				
		2019	2018		
Cost of goods sold	\$	11,647,651	\$	13,970,940	
Effect of recoverable amounts written off	(	776)	(	280,504)	
Scrap loss		237,754		267,636	
(Gain on reversal of dscline) loss on decline in market value	(	220,358)		256,566	
Loss on idle capacity		913,512		558,718	
	\$	12,577,783	\$	14,773,356	
(6) Investments accounted for using the equity method	<u>d</u>				
		cember 31, 2019	Dece	ember 31, 2018	
Subsidiaries:					
Lighting Investment Corp (Note 1)	\$	2,081,416	\$	1,928,717	
Epistar JV Holding (BVI) Co., Ltd (Note 2)		9,030,452		10,268,739	
Yen-Rich Technology Corporation (Note 3)		1,123,339		232,509	
Full Star Enterprises Limited		257,907		250,537	
Ecoled Venture Co., Limited		-	(	6,858)	
SH Optotech Co., Ltd.		3,192		9,810	
GaN Ventures Co., Limited		12,919		124,306	
iReach Corporation		48,974		37,606	
Unikorn Semiconductor Corporation (Note 4)		571,113		933,330	
ProLight Opto Technology Corporation(Note 5)		88,278		-	
GaN Force Corporation		56,283		-	
Add: Non-current credit balance reclassified					
to other liabilities				6,858	
		13,273,873		13,785,554	
Associates:					
Nan Ya Photonics Incorporation		450,672		387,627	
Tekcore Co., Ltd.		37,788		62,978	
TE Opto Corporation		45,524		43,557	
ProLight Opto Technology Corporation(Note 5)				97,043	
		533,984		591,205	
	\$	13,807,857	\$	14,376,759	

Note 1: Lighting Investment Corp. proceeded with a simple merger with EPI Crystal Investment Inc. on July 1, 2018. Lighting Investment Corp. was the surviving company while EPI Crystal Investment Inc. was the dissolved company.

Note 2: Epistar JV Holding (BVI) Co., Ltd. proceeded with a simple merger with UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited on November 1, 2018. Epistar JV Holding (BVI) Co., Ltd was the surviving company while UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited were the dissolved companies.

- Note 3: In September 2018, Zheng-Yi Technolgy Corporation has been renamed as Yen-Rich Technology Corporation.
- Note 4: On October 1, 2018, the parent company established the Unikorn Semiconductor Corporation due to the spin-off and transfer of its operation for iii v semiconductors OEM business.
- Note 5: The company became one of the Company's subsidiaries starting from April 11, 2019.

#### A. Subsidiaries

Information on subsidiaries is provided in Note 4(3) of the 2019 consolidated financial statements.

# B. Associates

(a) The basic information of the associates that are material to the Company is as follows:

		Sharehol	ding ratio		
	Principal place	December 31,	December 31,	Nature of	Methods of
Company name	of business	2019	2018	relationship	measurement
Nan Ya Photonics Incorporation	Taiwan	40.80%	40.80%	Associates	Equity method
ProLight Opto Technology Corporation	Taiwan	Note	12.71%	Note	Equity method

Note: The company became one of the Company's subsidiaries starting from April 11, 2019.

(b) The summarised financial information of the associates that are material to the Group is as follows:

Balance sheet

	Nan Ya Photonics Incorporation							
	Dece	mber 31, 2019	Decen	nber 31, 2018				
Current assets	\$	1,073,694	\$	929,990				
Non-current assets		160,550		130,111				
Current liabilities	(	146,214)	(	128,743)				
Non-current liabilities	(	9,481)	(	9,520)				
Total net assets	\$	1,078,549	\$	921,838				
Share in associate's net assets	\$	429,788	\$	366,743				
Goodwill		20,884		20,884				
Carrying amount of the associate	\$	450,672	\$	387,627				
	Pro	olight Opto Tech	nology C	Corporation				
	Dece	mber 31, 2019	Decen	nber 31, 2018				
Current assets	\$	-	\$	527,783				
Non-current assets		-		521,627				
Current liabilities		-	(	185,033)				
Non-current liabilities			(	105,323)				
Total net assets	\$		\$	759,054				
Share in associate's net assets	\$	-	\$	56,070				
Goodwill	<u> </u>	<u>-</u>		40,973				
Carrying amount of the associate	\$	_	\$	97,043				

## Statement of comprehensive income

		Nan Ya Photoni	ics Inco	orporation
		Years ended	Decem	ber 31
		2019		2018
Revenue	\$	715,223	\$	879,307
Gain for the period from continuing				
operations	\$	98,098	\$	90,519
Other comprehensive income, net of tax		122,470		155,488
Total comprehensive income	\$	220,568	\$	246,007
Dividends received from associates	\$	27,359	\$	_
	P1	olight Opto Tech	nology	Corporation
		Years ended	Decem	ber 31
		2019		2018
Revenue	\$	134,787	\$	612,433
Loss for the period from continuing				
operations	(\$	5,829)	(\$	40,088)
Other comprehensive loss, net of tax			(	170)
Total comprehensive loss	(\$	5,829)	(\$	40,258)
Dividends received from associates	\$		\$	

(c) The carrying amount of the Company's interests in all individually immaterial associates and the Group's share of the operating results are summarised below:

As of December 31, 2019 and 2018, the carrying amount of the Company's individually immaterial associates amounted to \$83,312 and \$106,535, respectively.

	Years ended December 31					
	2019		2018			
Loss for the year from continuing operations (	\$ 1	06,092) (\$	9,563)			
Other comprehensive loss (		63) (	435)			
Total comprehensive loss	\$ 1	06,155) (\$	9,998)			

- C. The investment loss from equity method investees for the years ended December 31, 2019 and 2018 amounted to \$1,047,846 and \$248,225, respectively.
- D. The other comprehensive loss from equity method investees for the years ended December 31, 2019 and 2018 amounted to \$340,215 and \$291,962, respectively.
- E. The Company's investment in Tekcore Co., Ltd. has a quoted market price. The fair value of Tekcore Co., Ltd. as of December 31, 2019 and 2018 was \$100,024 and \$117,437, respectively.
- F. The Group disposed all its shares of Tops Electrical Technology Co., Led. on March 29, 2018 and recognised loss on disposal of investments amounting to \$898.

G. The Group lost significant influence over PlayNitride Inc. as the shares of PlayNitride Inc. owned by the Group were less than 20% on March 6, 2018, therefore, the Group reclassified it into financial assets at fair value through other comprehensive income and recognised gains on disposal of investments amounting to \$105,276 in accordance with IFRSs.

# (7) Property, plant and equipment

,	Land	Buildings and structures	Machinery	Transportation_equipment	Office equipment	Leasehold improvements	Constru progres equipm be insp	ss and nent to	Total
At January 1, 2019									
Cost Accumulated	\$ 124,661	\$12,379,159	\$31,080,964	\$ 3,287	\$ 135,846	\$ 84,143	\$ 1,3	382,330	\$ 45,190,390
depreciation and									
impairment		(_6,443,242)	(_23,218,745)	(3,287	) (92,033)	(47,519)			(_29,804,826)
	\$124,661	\$ 5,935,917	\$ 7,862,219	\$ -	\$ 43,813	\$ 36,624	\$ 1,3	382,330	\$ 15,385,564
<u>2019</u>									
Opening net book amount at January 1	\$ 124,661	\$ 5,935,917	\$ 7,862,219	\$ -	\$ 43,813	\$ 36,624	\$ 1,3	382,330	\$ 15,385,564
Additions	-	10,114	9,292	-	990	130	1,4	111,958	1,432,484
Transfer	-	672,829	1,477,806	-	9,899	7,753	( 2,1	168,287)	-
Disposals	-	( 15,230)	( 175,227)	-	( 1,123)	-		-	( 191,580)
Reclassifications	138,524	245,568	( 5,655)	-	( 684)	-	(	96,845)	280,908
Depreciation charge	-	( 780,397)	( 2,537,390)	-	( 14,311)	( 9,201)	)	-	( 3,341,299)
Impairment loss Closing net book		(37,799)	(123,797)		<u> </u>	(15,126)			(176,722)
amount at December 31	\$ 263,185	\$ 6,031,002	\$ 6,507,248	\$ -	\$ 38,584	\$ 20,180	\$ 5	529,156	\$ 13,389,355
At December 31, 2019									
Cost Accumulated	\$ 263,185	\$12,792,662	\$29,175,858	\$ 3,287	\$ 108,082	\$ 91,051	\$ 5	529,156	\$ 42,963,281
depreciation and impairment	_	( 6.761.660)	( 22,668,610)	( 3,287	) ( 69,498)	( 70,871	1	_	( 29,573,926)
impairment	¢ 262 105		<del></del>				-	520.156	
	\$ 263,185	\$ 6,031,002	\$ 6,507,248	\$ -	\$ 38,584	\$ 20,180	\$ 5	529,156	\$ 13,389,355

	Land	Buildings and structures	Machinery	Transportation equipment	Office equipment	Leasehold improvements	Construction in progress and equipment to be inspected	Total
At January 1, 2018								
Cost Accumulated	\$124,661	\$11,748,150	\$ 30,072,874	\$ 3,287	\$ 140,327	\$ 85,438	\$ 1,835,073	\$ 44,009,810
depreciation and		( 5.752.302)	( 21 101 404)	( 2.002)	( 102 145)	( 40.970)		( 2( 000 804)
impairment		(5,752,302)	(_21,101,494)		(102,145)		<del>-</del>	(_26,999,804)
	\$124,661	\$ 5,995,848	\$ 8,971,380	\$ 294	\$ 38,182	\$ 44,568	\$ 1,835,073	\$ 17,010,006
<u>2018</u>								
Opening net book amount at January 1	\$124,661	\$ 5,995,848	\$ 8,971,380	\$ 294	\$ 38,182	\$ 44,568	\$ 1,835,073	\$ 17,010,006
Spinoff and assignments transition	_	6,094	227,784	_	2,235	_	2,907,939	3,144,052
Additions	-	·	,	_	_,	_	_,, , , , , , _	( 228,780)
Transfer	_	-	( 99,733)		_		_	( 99,733)
Disposals Reclassified to non- current assets held for	-		136,057	-	-	-	21,033	156,682
sale	_	807,485	2,201,248	_	17,827	1,517	( 3,028,077)	-
Reclassifications	_	, -	· · · · · · · · · · · · · · · · · · ·	-	_	( 763)		
Depreciation charge	_		` ′ ′	( 294)		` /	` , ,	( 3,499,184)
Impairment loss	_	( 117,327)	( 340,323)		_	-	_	( 457,650)
Closing net book amount at December	\$124,661	\$ 5,935,918	\$ 7,862,219	\$ -	\$ 43,813	\$ 36,624	\$ 1,382,330	\$ 15,385,565
At December 31, 2018								
Cost Accumulated depreciation and	\$124,661	\$12,379,159	\$ 31,080,964	\$ 3,287	\$ 135,846	\$ 84,143	\$ 1,382,330	\$ 45,190,390
impairment	_	( 6,443,241)	( 23,218,745)	( 3,287)	( 92,033)	( 47,519)	_	( 29,804,825)
•	\$124,661	\$ 5,935,918	\$ 7,862,219	\$ -	\$ 43,813	\$ 36,624	\$ 1,382,330	\$ 15,385,565
	Ψ127,001	Ψ 3,733,716	Ψ 1,002,219	Ψ	Ψ 75,015	φ 50,024	Ψ 1,302,330	Ψ 10,000,000

## (8) <u>Leasing arrangements — lessee</u>

## Effective 2019

- A. The Group leases various assets including land, buildings, machinery, transportation equipment and office equipment. Rental contracts are typically made for periods of 2 to 50 years. Lease terms are negotiated on an individual basis and contain a wide range of different terms and conditions. The lease agreements do not impose covenants, but leased assets may not be used as security for borrowing purposes.
- B. Short-term leases with a lease term of 12 months or less comprise buildings, transportation equipment and office equipment. Low-value assets comprise office equipment.

C. The carrying amount of right-of-use assets and the depreciation charge are as follows:

			Y ear e	nded December
	Dec	December 31, 2019		31, 2019
	Са	arrying amount	Depre	eciation charge
Land	\$	1,202,185	\$	45,241
Buildings		32,095		9,427
Machinery and equipment		3,255		13,378
Transportation equipment		4,754		5,360
Office equipment		27,646		9,520
	\$	1,269,935	\$	82,926

- D. For the year ended December 31, 2019, the additions to right-of-use assets was \$17,422.
- E. The information on profit and loss accounts relating to lease contracts is as follows:

	Year ended December		
		31, 2019	
Items affecting profit or loss			
Interest expense on lease liabilities	\$	25,501	
Expense on short-term lease contracts		10,060	
Expense on leases of low-value assets		3,157	

F. For the year ended December 31, 2019, the Group's total cash outflow for leases was \$102,921.

# (9) Intangible assets

				equired pecial								
		Patents	tecl	hnology	5	Software		Goodwill		Others		Total
At January 1, 2019												
Cost	\$	2,214,280	\$	64,652	\$	309,302	\$	6,324,659	\$	30,442	\$	8,943,335
Accumulated amortisation												
and impairment	(	1,108,970)	(	63,403)	(_	189,657)			(	24,592)	(_	1,386,622)
	\$	1,105,310	\$	1,249	\$	119,645	\$	6,324,659	\$	5,850	\$	7,556,713
<u>2019</u>												
Opening net book amount	\$	1,105,310	\$	1,249	\$	119,645	\$	6,324,659	\$	5,850	\$	7,556,713
as at January 1												
Additions – acquired												
separately		6,293		-		37,927		-		1,438		45,658
Disposals	(	4,189)		-	(	1,682)		-		-	(	5,871)
Reclassifications		8,483		-		2,953		-		2,400		13,836
Amortisation charge	(	186,653)	(	254)	(	57,075)	_		(	2,966)	(	246,948)
Closing net book amount as												
at December 31	\$	929,244	\$	995	\$	101,768	\$	6,324,659	\$	6,722	\$	7,363,388
At December 31, 2019												
Cost	\$	2,223,811	\$	64,651	\$	348,035	\$	6,324,659	\$	34,279	\$	8,995,435
Accumulated amortisation												
and impairment	(_	1,294,567)	(	63,656)	(	246,267)			(_	27,557)	(	1,632,047)
	\$	929,244	\$	995	\$	101,768	\$	6,324,659	\$	6,722	\$	7,363,388

		special				
	Patents	technology	Software	Goodwill	Others	Total
At January 1, 2018						
Cost	\$ 2,148,660	\$ 63,381	\$ 251,363	\$ 6,324,659	\$ 29,010	\$ 8,817,073
Accumulated						
amortisation and						
impairment	(907,224)	(63,381)	(140,555)		$(\underline{21,756})$	(_1,132,916)
	\$ 1,241,436	\$ -	\$ 110,808	\$ 6,324,659	\$ 7,254	\$ 7,684,157
<u>2018</u>	<u> </u>		· <u> </u>			
Opening net book						
amount as at January 1	\$ 1,241,436	\$ -	\$ 110,808	\$ 6,324,659	\$ 7,254	\$ 7,684,157
Additions – acquired						
separately	59,133	1,270	57,939	-	1,432	119,774
Reclassifications	6,487	-	-	-	-	6,487
Amortisation charge	(201,746)	(21)	(49,102)		(2,836)	(253,705)
Closing net book amount						
as at December 31	\$ 1,105,310	\$ 1,249	\$ 119,645	\$ 6,324,659	\$ 5,850	\$ 7,556,713
At December 31, 2018						
Cost	\$ 2,214,280	\$ 64,652	\$ 309,302	\$ 6,324,659	\$ 30,442	\$ 8,943,335
Accumulated						
amortisation and						
impairment	(1,108,970)	(63,403)	(189,657)		(24,592)	(_1,386,622)
	\$ 1,105,310	\$ 1,249	\$ 119,645	\$ 6,324,659	\$ 5,850	\$ 7,556,713

Acquired

Details of amortisation on intangible assets are as follows:

	 Y ears ended	Decemb	er 31
	 2019		2018
Operating costs	\$ 114,803	\$	110,588
Selling expenses	4,576		7,283
Administrative expenses	45,916		44,789
Research and development expenses	 81,653		91,045
	\$ 246,948	\$	253,705

## (10) Impairment of non-financial assets

A. During the years ended December 31, 2019 and 2018, the reallocation of production lines resulted in the impairment of the Company's property, plant and equipment and non-current assets classified as held for sale. The Company adjusted recoverable amounts of property, plant and equipment as well as non-current assets classified as held for sale and recognised impairment losses amounting to \$178,603 and \$615,949, respectively. The recoverable amounts are the fair values less costs of disposal, the fair values were classified to level 3 and the impairment losses are detailed below:

	Years ended December 31						
		2019	2018				
	Recognis	ed in profit or loss	Recognise	ed in profit or loss			
Impairment loss - buildings and structures	\$	37,799	\$	117,327			
Impairment loss - machinery Impairment loss -		123,797		340,323			
office quipment Impairment loss - non-		15,126		-			
current assets held for sale		1,881		158,299			
	\$	178,603	\$	615,949			

B. Goodwill is allocated to the Company's cash-generating units identified according to operating segment. The recoverable amount of all cash-generating units has been determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by the management covering a five-year period. Cash flows beyond the five-year period are extrapolated using the estimated growth rates stated below.

The recoverable amount of all cash-generating units calculated using the value-in-use exceeded their carrying amount, therefore goodwill was not impaired. The key assumptions used for value-in-use calculations are as follows:

	Year e	Year ended December 31, 2019			Year ended December 31, 2018			
	1st year	2~5 years	After 6th year	1st year	2~5 years	After 6th year		
Revenue growth rate	33.55%	6.82%~ 14.7%	0.00%	26.63%	9.87%~ 30.11%	0.00%		
Gross margin rate	17.59%	28.4%~ 34.9%	34.80%	15.56%	23.0%~ 26.8%	26.80%		
Discount rate	11.39%	11.39%	11.39%	14.20%	14.20%	14.20%		

- (a) Revenue growth rate: Estimation refers to relevant market information and relevant operating and sales plan.
- (b) Gross margin rate: Estimation refers to historical data and relevant operating and sales plan.
- (c) Discount rate: The rate before tax and reflecting specific risk of relevant operating segment.

## (11) Non-current assets held for sale

Assets of disposal group classified as held for sale:

	Decemb	December 31, 2018		
Property, plant and equipment	\$	827	\$	388,500
(12) Short-term borrowings				
December 31,2019: None.				

Type of borrowings December 31, 2018 Interest rate range Collaterals
Unsecured bank \$ 449,295 0.90%~3.10% None borrowings

## (13) Other payables

Items	Dece	mber 31, 2019	Dece	ember 31, 2018
Payables on wages, salaries and bonus	\$	337,196	\$	475,216
Compensation due to employees, directors and supervisors		69,516		69,516
Payables on personnel expense		37,040		57,460
Payable on machinery and equipment		389,902		953,241
Payables on consumable goods and				
equipment repair expense		231,126		531,381
Payables on processing fees		179,244		97,381
Payables on reticle expense		17,575		26,478
Payables on gas expense		67,166		74,007
Payables on insurance expense		3,425		7,248
Payable on intangible assets		47,159		47,159
Others		363,991		513,127
	\$	1,743,340	\$	2,852,214

## (14) <u>Long-term borrowings</u>

	Borrowing period and		
Type of borrowings	repayment term	Decer	nber 31, 2019
Secured borrowings	Before October 29, 2022	\$	99,808
Unsecured borrowings	November 2, 2021 Repay fully at maturity		500,000
Unsecured borrowings	Before November 5, 2024		390,000
			989,808
Less: Current portion		(	78,561)
		\$	911,247
Interest rate range			1.20%~1.26%
Type of borrowings	Borrowing period and repayment term	Decer	nber 31, 2018
Secured borrowings	Before October 29, 2022	\$	137,971
Unsecured borrowings	Before December 30, 2019		127,143
Unsecured borrowings	November 2, 2021 Repay fully at maturity		10,000
Unsecured borrowings	January 31, 2020 Repay fully at maturity		300,000
			575,114
Less: Current portion		(	165,306)
		\$	409,808
Interest rate range			1.00%~1.39%

The Company, Formosa Inc. and Jiangsu Canyang Optoelectronics Ltd have signed a syndicated contract with 7 financial institutions including Land Bank of Taiwan. The lead bank is Land Bank of Taiwan. The credit granting period is 3 years from the first drawing date, May 30, 2016. Before the maturity, the granting period can be extended for 2 years upon application. The loan has been paid off in advance and the credit line has been cancelled on May 30, 2018.

#### A. Credit lines are as follows:

- (a) Tranche (A): Credit line is \$4,000,000. Details of Tranche A are as follows:
  - i Tranche (A-1): To redeem the 2nd overseas convertible bond and the former facility of Tranche (B) of Formosa Inc., the credit line is \$1,500,000 which can be drawn separately but cannot be redrawn.
  - ii Tranche (A-2): Funds for fulfilling the Company's mid-term operational needs. Credit line is \$2,500,000 and can be redrawn.
- (b) Tranche (B): Credit line is \$1,600,000. Details of Tranche B are as follows:
  - i Tranche (B-1): To repay former financial debt of Formosa Inc., the credit line is \$600,000 and cannot be redrawn.
  - ii Tranche (B-2): To fulfil midterm operating capital, the credit line is \$1,000,000 and can be redrawn.
- (c) The balance of Tranche (A) and Tranche (B) cannot exceed the total credit line.
- (d) Tranche (C): Credit line is US\$19,000 thousand. Details of Tranche C are as follows: Tranche (C-1): To repay financial debt of Jiangsu Canyang Optoelectronics Ltd., the credit line is USD 19,000 thousand and can be drawn at lump sum but cannot be redrawn.
- B. The Company has promised to maintain the following financial ratios and conditions that are based on the audited consolidated financial statements within the credit granting period (if violating following financial rates, annual rates of 0.125% should be added in accordance with contract):
  - (a) Current ratio more than or equal to 100%;
  - (b) Debt ratio less or equal to 100%;
  - (c) Times interest earned ratio no less than 400%;
  - (d) Tangible net worth (shareholders' equity intangible assets) not less than \$45,000,000 (inclusive).
- C. Due to the business combination of the Company and Formosa Inc. on September 29, 2016, the aforementioned Tranche (B), Tranche (B-1) and Tranche (B-2) are not applicable to the contract.
- D. The Company's financial commitments to borrowing from Taipei Fubon Commercial Bank Co., Ltd:

Financial commitments (after the first drawn, following financial ratios shall maintain in the duration):

- i. Current ratio shall exceed (including) 100%.
- ii. Interest coverage ratio shall exceed (including) 4.
- iii. Debt ratio shall below (including) 100%.
- iv. Tangible net assets: shall exceed NTD 45 billion.

Aforementioned ratios of financial commitment were calculated based on the audited annual consolidated financial statements which will be reviewed once a year. If the financial ratios were violated the restriction, the interest rate plus 0.15%. If the financial ratio were not improved in the continuous 2 periods, the facility shall be examined.

#### (15) Pensions

A. (a) The Company has a defined benefit pension plans in accordance with the Labor Standards Law, covering all regular employees for services provided prior to July 1, 2005, and employees who choose to remain in the defined benefit pension plan subsequent to the enforcement of the Labor Pension Act on July 1, 2005. Under the defined benefit pension plan, employees are entitled to two base points for every year of service for the first 15 years and one base point for each additional year thereafter, up to a maximum of 45 base points. The pension payment to employees is computed based on years of service and average salaries or wages of the last six months prior to approved retirement. The Company contributes an amount equal to 2% of salaries and wages paid each month to a pension fund. The pension fund is administered by a pension fund monitoring committee (the "Committee") and deposited under the Committee's name in the Bank of Taiwan.

Also, the Company would assess the balance in the aforementioned labor pension reserve account by the end of December 31, every year. If the account balance is insufficient to pay the pension calculated by the aforementioned method, to the employees expected to be qualified for retirement next year, the Company will make contributions to cover the deficit by next March.

(b) The amounts recognized in the balance sheet are determined as follows:

	Decen	nber 31, 2019	December 31, 20	18
Present value of defined benefit obligations	(\$	360,068) (	(\$ 357,	293)
Fair value of plan assets		280,240	257,	354
Net defined benefit liability	(\$	79,828) (	(\$ 99,	939)

# (c) Movements in net defined benefit liabilities are as follows:

			20	19		
		nt value of defined nefit obligations		Fair value plan assets		let defined nefit liability
At January 1	(\$	357,293)	\$	257,354	(\$	99,939)
Current service cost	(	1,424)		-	(	1,424)
Interest (expense) income	(	3,566)		2,628	(	938)
Past service cost		5,159		-		5,159
Benefits paid		566	(	566)	)	
	(	356,558)		259,416	(	97,142)
Remeasurements:						
Return on plan assets (excluding amounts included in interest income or expense)		-		8,883		8,883
Change in demographic assumptions	(	3,304)		-	(	3,304)
Change in financial assumptions	(	12,511)			(	12,511)
Experience adjustments		12,305				12,305
Pension fund contribution	(	3,510)		8,883		5,373
Paid pension		<u>-</u>		11,941		11,941
At December 31	( <u>\$</u>	360,068)	\$	280,240	( <u>\$</u>	79,828)
			201	18		
		value of defined efit obligations		air value olan assets		et defined efit liability
At January 1	(\$	380,000)	\$	239,145	(\$	140,855)
Current service cost	(	1,750)		-	(	1,750)
Interest (expense) income	(	4,738)		3,064	(	1,674)
Benefits paid		3,783		3,783)		
	(	382,705)		238,426	(	144,279)
Remeasurements:						
Return on plan assets (excluding amounts included in interest income or expense)		-		6,411		6,411
Change in demographic assumptions	(	105)		_	(	105)
Change in financial assumptions	(	13,014)			(	13,014)
Experience adjustments		38,531				38,531
Pension fund contribution		25,412		6,411		31,823
Paid pension		<u>-</u>		12,517		12,517
At December 31	(\$	357,293)	\$	257,354	(\$	99,939)

- (d) The Bank of Taiwan was commissioned to manage the Fund of the Company's and domestic subsidiaries' defined benefit pension plan in accordance with the Fund's annual investment and utilisation plan and the "Regulations for Revenues, Expenditures, Safeguard and Utilisation of the Labor Retirement Fund" (Article 6: The scope of utilisation for the Fund includes deposit in domestic or foreign financial institutions, investment in domestic or foreign listed, over-the-counter, or private placement equity securities, investment in domestic or foreign real estate securitization products, etc.). With regard to the utilisation of the Fund, its minimum earnings in the annual distributions on the final financial statements shall be no less than the earnings attainable from the amounts accrued from two-year time deposits with the interest rates offered by local banks. If the earnings is less than aforementioned rates, government shall make payment for the deficit after being authorized by the Regulator. The Company has no right to participate in managing and operating that fund and hence the Company is unable to disclose the classification of plan asset fair value in accordance with IAS 19 paragraph 142. The composition of fair value of plan assets as of December 31, 2019 and 2018 is given in the Annual Labor Retirement Fund Utilisation Report announced by the government.
- (e) The principal actuarial assumptions used were as follows:

	Years ended December 31			
	2019	2018		
Discount rate	0.75%	1.00%		
Future salary increases	2.00%	2.00%		

Future mortality rate was estimated separately based on the 5th Taiwan Standard Ordinary Experience Mortality Table.

Because the main actuarial assumption changed, the present value of defined benefit obligation is affected. The analysis was as follows:

	Discount rate				Future salary increases			
	Increa	ase 25%	Deci	rease 25%	Incr	ease 25%	Dec	rease 25%
December 31, 2019 Effect on present value of defined benefit obligation	(\$	12,483)	\$	13,079	\$	12,883	(\$	12,363)
December 31, 2018 Effect on present value of defined benefit obligation	(\$	13,020)	\$	13,663	\$	13,492	(\$	12,926)

The sensitivity analysis above is based on other conditions that are unchanged but only one assumption is changed. In practice, more than one assumption may change all at once. The method of analysing sensitivity and the method of calculating net pension liability in the balance sheet are the same.

The method and assumptions used for the preparation of sensitivity analysis during 2019 and during 2018 are the same.

- (f) Expected contributions to the defined benefit pension plans of the Company for the next year ending December 31, 2020 amounts to \$11,619.
- (g) As of December 31, 2019, the weighted average duration of that retirement plan is 14 years.
- B. (a) Effective July 1, 2005, the Company has established a defined contribution pension plan (the "New Plan") under the Labor Pension Act (the "Act"), covering all regular employees with R.O.C. nationality. Under the New Plan, the Company contribute monthly an amount based on 6% of the employees' monthly salaries and wages to the employees' individual pension accounts at the Bureau of Labor Insurance. The benefits accrued are paid monthly or in lump sum upon termination of employment.
  - (b) The pension costs under the defined contribution pension plans of the Company for the years ended December 31, 2019 and 2018 were \$119,928 and \$130,589, respectively.

## (16) Share-based payment

A. For the years ended December 31, 2019 and 2018, the Company's share-based payment arrangements were as follows:

		Quantity granted		Vesting
Type of arrangement	Grant date	(thousand shares)	Contract period	conditions
Treasury stock	2017.09.26	20,000	2 years	Note
transferred to				
employees				

Note: The Board of Directors adopted a resolution to transfer 20,000 thousand treasury stocks to employees with a subscription price of NT\$26.9 and without transfer restriction during the meeting on September 26, 2017. If employees resign during the vesting period, they are obliged to compensate for the difference between closing market price and the subscription price on the date of security delivery which is under the discretion of the Chairperson.

#### (17) Long-term deferred revenue (shown under "Other non-current liabilities")

	Decem	ber 31, 2019	December 31, 2018		
Government grants revenue	\$	13,765	\$	5,358	
Deferred technical services revenue		12,307		16,266	
	\$	26,072	\$	21,624	

A. The Company obtained government grants for acquisitions of equipment and technology investments and recognized such grants as revenue over the economic lives of those assets. Government grants revenue recognized for the years ended December 31, 2019 and 2018 were \$45,523 and \$7,381 (shown under 'Other revenue'), respectively.

B. In 2009 and 2018, the Company signed a technical and patent permissions contract with Lite field Corporation (Dalian) LTD. and QL Light Source, and recognises technical services and royalty revenue over the contract periods. The service revenue recognised for the years ended December 31, 2019 and 2018 were \$12,307 and \$16,266, respectively.

#### (18) Share capital

A. As of December 31, 2019, the Company's authorized capital was \$13,000,000, consisting of 1,300,000 thousand shares of ordinary stock (including 35,000 thousand shares reserved for employee stock options), and the paid-in capital was \$10,887,014 with a par value of \$10 (in dollars) per share. All proceeds from shares issued have been collected.

Movements of the Company's outstanding ordinary shares are as follows (expressed in thousands of shares):

		2019	2018
At January 1		1,083,051	1,075,836
Repurchase of treasury stocks	(	4,715) (	3,085)
Treasury stocks transferred to employees		<u>-</u>	10,300
At December 31		1,078,336	1,083,051

- B. Pursuant to the issuance of global depositary receipts (GDRs), the Company issued 135 million shares of common stocks for \$1,350,000 thousand dollars. On September 22, 2009, the issuance of GDRs was completed and the GDRs are traded on the Luxembourg Stock Exchange. The total GDRs issued were 27,000,000 units, each represented 5 common shares and US \$13 (in dollars) per unit, amounting to US \$351 million. As of December 31, 2019, the Company's outstanding units of GDRs amounted to 6,023 units.
- C. On October 1, 2018, the total operating assets and liabilities of iii-v semiconductors OEM business for Spin-off and assignments to Unikorn Semiconductor Corporation were \$1,000,000 and \$0, respectively. Unikorn Semiconductor Corporation issued 100 million shares, at a price of \$10 per share (par value of \$5), to exchange the abovementioned assets and liabilities. The details are as follows:

Assets	October 1, 201		
Bank deposits	\$	360,172	
Property, plant and equipment		639,828	
	\$	1,000,000	

#### D. Treasury shares

(a) Reason for share reacquisition and movements in the number of the Company's treasury shares are as follows:

Thousand shares/Thousand

	Year ended December 31, 2019							
Reason for reacquisition	Beginning balance	Increase	Decrease	Ending balance	Во	ook value		
Held by subsidiaries	2,565	-	-	2,565	\$	135,163		
Held by the Company	3,085	4715	-	7,800		190,327		
	Year ended December 31, 2018							
Reason for reacquisition	Beginning balance	Increase	Decrease	Ending balance	Во	ook value		
Reason for reacquisition Held by subsidiaries	Beginning balance 2,565	Increase -				135,163		
· -				Ending balance				

- (b) Pursuant to the R.O.C. Securities and Exchange Act, the number of shares bought back as treasury share should not exceed 10% of the number of the Company's issued and outstanding shares and the amount bought back should not exceed the sum of retained earnings, paid-in capital in excess of par value and realised capital surplus.
- (c) Pursuant to the R.O.C. Securities and Exchange Act, treasury shares should not be pledged as collateral and is not entitled to dividends before it is reissued.
- (d) Pursuant to the R.O.C. Securities and Exchange Act, treasury shares should be reissued to the employees within three years from the reacquisition date and shares not reissued within the three-year period are to be retired. Treasury shares to enhance the Company's credit rating and the stockholders' equity should be retired within six months of acquisition.
- E. Information of the Company's shares held by subsidiaries Lighting Investment Corporation is as follows:

	December 31, 2019	December 31, 2018		
Shares	2,565 thousand shares	2,565 thousand shares		
Book value	\$ 135,163	\$ 135,163		
Fair value	\$ 82,970	\$ 65,658		

## (19) Capital surplus

A. Pursuant to the Company Act, capital surplus, including additional paid-in capital in excess of par and donation, shall be exclusively used to cover accumulated deficit or to issue new stock or cash to shareholders in proportion to their ownership when the Company has no accumulated deficit. However, pursuant to the R.O.C. Securities and Exchange Act, capital surplus arising from paid-in capital in excess of par value on issuance of common stock and donations can be capitalized once a year, provided that the Company has no accumulated deficit and the amount to be capitalized does not exceed 10% of the paid-in capital.

- B. The shareholders resolved at their meeting on June 21, 2018 to issue cash to shareholders from capital surplus of \$121,765.
- C. The shareholders resolved at their meeting on June 20, 2019 to issue cash to shareholders from capital surplus of \$324,270.

			Changes		Difference bet		C	net equity of
			ownersh	•	consideration and	, ,		s and joint
		Treasury sha	are interests	in	amount of subs	idiaries	ventures a	ccounted for
	Share premium	transaction	s subsidiai	ries	acquired or dis	posed	under equ	ity method
At January 1, 2019	\$ 38,308,747	\$ 195,38	87 \$ 840,1	55	\$	105,198	\$	66,192
Cash from capital surplus	( 324,270)		-	-		-		-
Treasury stocks transferred	l							
to employees	-		-	-		-		7,304
Net change in the equity o associates	I		14.0	50				
	-		- 14,0	_	Φ.	-	Φ.	-
At December 31, 2019	\$ 37,984,477	\$ 195,38	<u>\$ 854,2</u>	_	\$	105,198	\$	73,496
					шегенсе вегмеен	_	n net equity	
			Changes in	C	onsideration and	of asso	ciates and	
		Treasury	ownership	ca	arrying amount of	joint	ventures	
		share	interests in	sub	osidiaries acquired	accounte	d for under	Employee
	Share premium	transactions	subsidiaries		or disposed	equity	method	restricted shares
At January 1, 2018	\$ 38,430,512	\$ 47,649	\$ 834,683	\$	105,930	\$	524,287	\$ 27,906
Cash from capital surplus	( 121,765)	_	-		-		-	-
Treasury stocks Transferred								
to employees	-	145,686	-		-		-	( 27,906)
Net change in the equity of associates						(	458,095)	
Difference between	-	-	-		-	(	438,093)	-
consideration and								
carrying amount of								
subsidiaries acquired or								
disposed Changes in ownership	-	-	-	(	732)		-	-
interest in subsidiaries								
accounted for using								
equity method	-	-	5,472		-		-	-
Capital surplus								
adjustment due to								
dividend paid to								
subsidiaries		2,052						
At December 31, 2018	\$ 38,308,747	\$ 195,387	\$ 840,155	\$	105,198	\$	66,192	\$ -

## (20) Unappropriated retained earnings (accumulated deficit)

	2019		2018
At January 1	\$	479,888 \$	1,614,226
Effect of retrospective application and			
retrospective restatement		-	46,946
Profit (loss) for the year	(	3,753,797) (	456,146)
Proceeds from disposal of financial assets at	fair		
value through other comprehensive income		- (	1,071)
Remeasurement of defined benefit obligation	S	4,287	25,129
Capital surplus used to offset accumulated de	eficits	-	-
Appropriation of earnings		<u>-</u> (	749,196)
At December 31	(\$	3,269,622) \$	479,888

- A. In accordance with the Company's Articles of Incorporation, 10% of current year's earnings, after paying all taxes and dues and covering prior years' losses, shall be appropriated as legal reserve until the total equals the issued share capital. Special reserve shall be appropriated or reversed when needed. The remaining earnings along with the prior years' accumulated unappropriated earnings are considered as distributable earnings, and shall be retained and appropriated in proportion to the number of shares held by each shareholder accordingly.
- B. The Company appropriates earnings based on the factors such as current and future investment environment, capital needs, domestic and overseas competition and capital budget, along with the consideration of shareholders' interest and capital adequacy. The appropriation of cash dividends shall not be lower than 10% of the total dividend appropriated to shareholders.
- C. Except for covering accumulated deficit or issuing new stocks or cash to shareholders in proportion to their share ownership, the legal reserve shall not be used for any other purpose. The use of legal reserve for the issuance of stocks or cash to shareholders in proportion to their share ownership is permitted, provided that the distribution of the reserve is limited to the portion in excess of 25% of the Company's paid-in capital.
- D. In accordance with the regulations, the Company shall set aside special reserve from the debit balance on other equity items at the balance sheet date before distributing earnings. When debit balance on other equity items is reversed subsequently, the special reserve is reversed accordingly and could be included in the distributable earnings.
- E. The earnings appropriation as resolved by the Board of Directors on June 21, 2018 is as follows:

	 Year ended Dec	ember	31, 2017
	Amount		dends per share (in dollars)
Legal reserve	\$ 161,423	\$	_
Reversal of special reserve	703,607		-
Cash dividends	 749,196		0.688156
	\$ 1,614,226		

- F. The appropriations of 2018 deficit had been resolved at the shareholders' meeting on June 20, 2019 that offset the deficits by special reserve amounting to \$385,142.
- G.For the information relating to employees' compensation (bonuses) and directors' and supervisors' remuneration, please refer to Note 6(28).

# (21) Other equity items

	Currency	translation differences		alized gain or loss on -for-sale financial assets	Total
At January 1, 2019	(\$	818,175)		499,815) (\$	1,317,990)
Revaluation - gross		388,784		-	388,784
Revaluation - tax	(	70,757)		- (	70,757)
Disposal of investments accounted for using equity method	`	-		3,332	3,332
Currency translation					
-Group		-	(	354,694) (	354,694)
-Tax on Group		-		70,939	70,939
-Associates		-	(	6,374) (	6,374)
-Tax on associates		<u>-</u>		1,275	1,275
At December 31, 2019	(\$	500,148)	(\$	785,337) (\$	1,285,485)
	Currency	translation differences		alized gain or loss on -for-sale financial assets	Total
At January 1, 2018	(\$	268,293)	(\$	415,950) (\$	684,243)
Effect of retrospective application and retrospective restatement	(	52,055)		3,595 (	48,460)
Revaluation - gross	(	616,461)		- (	616,461)
Revaluation - tax		117,563		-	117,563
Revaluation transferred to retained earnings - gross		1,071		-	1,071
Disposal of investments accounted for using equity method		-		5,439	5,439
Currency translation					
-Group		-	(	208,330) (	208,330)
-Tax on Group		-		63,311	63,311
-Associates		-		65,150	65,150
-Tax on associates		<u> </u>	(	13,030) (	13,030)
At December 31, 2018	(\$	818,175)	(\$	499,815) (\$	1,317,990)

# (22) Operating revenue

	Years ended December 31					
	2019		2018			
Revenue from contracts with customers:						
Sales revenue	\$	12,401,150	\$	17,143,453		
Services revenue		20,449		43,115		
Other operating revenue		3,635		3,204		
	\$	12,425,234	\$	17,189,772		

# (23) Other income and expenses-net

		ber 31		
		2019		2018
Other income		_		<u> </u>
Royalty and technical income	\$	76,091	\$	118,742
Government grants revenue		45,523		7,381
	\$	121,614	\$	126,123
(24) Other income				
		Years ended	Decem	ber 31
		2019		2018
Interest income:		_		<u> </u>
Interest income from bank deposits	\$	14,404	\$	17,467
Net currency exchange gains		5,279		58,940
Other interest income		13,842		14,213
Total interest income		33,525		90,620
Rental revenue		146,951		56,027
Dividend income		13,789		12,910
Miscellaneous income		119,739		179,781
Total	\$	314,004	\$	339,338
(25) Other gains and losses				
	Years ended December 31			
		2019		2018
Net gains on financial assets at fair value through profit or loss	\$	193,066	\$	4,504
Impairment loss on non-financial assets	(	178,603)	(	615,949)
Losses on disposal of property, plant and				
equipment		89,361	(	126,690)
Gains on disposal of intangible assets		5,698		-
Gains on disposal of investments	(	20,001)		100,804
Bargain purchase gains		23,541		-
Net currency exchange (losses) gains	(	110,219)		7,827
Miscellaneous losses	(	119,089)	(	60,214)

116,246) (\$

689,718)

#### (26) Finance costs

	Years ended December 31					
		2019		2018		
Interest expense:						
Bank borrowings	\$	9,255	\$	16,927		
Net currency exchange gains		545	(	256)		
Other interest expense		26,964		12,106		
		36,764		28,777		
Less: capitalisation of qualifying assets		<u> </u>	(	755)		
	\$	36,764	\$	28,022		
Y) Expenses by nature						
		37 1 1	D 1	2.1		

## (27)

	Years ended December 31				
		2019		2018	
Employee benefit expenses	\$	3,092,720	\$	3,495,523	
Depreciation charges on property, plant and	\$	3,424,225	\$	3,499,184	
equipment (Note) Amortisation charges on intangible assets	\$	246,948	\$	253,705	

Note: Depreciation amounting to \$124,572 and \$35,887 were recognized as a deduction of rental revenue for the years ended December 31, 2019 and 2018, respectively.

# (28) Employee benefit expenses

	Dece	mber 31, 2019	December 31, 2018		
Wages and salaries	\$	2,615,131	\$	2,976,529	
Labor and health insurance expenses		231,931		241,004	
Pension costs		120,131		134,013	
Other personnel expenses		125,527		143,977	
	\$	3,092,720	\$	3,495,523	

- A. According to the Articles of Incorporation of the Company, the Company shall distribute employees' compensation and directors' remuneration based on 10%~20% and 2% of the distributable profit of the current year, respectively. If the Company has accumulated deficit, earnings should be reserved to cover losses.
  - The abovementioned distributable profit of the current year refers to the current year's income before tax (excluding put option, call option, conversion right and reacquisition of corporate bonds on overseas convertible bond that are recorded in other gains and losses) less the profit prior to the appropriation of employees' compensation and directors' remuneration.
- B. The aforementioned amounts were recognised in salary expenses. For the year ended December 31, 2018, the Company incurred loss and thus did not accrue employees' compensation and directors' and supervisors' remuneration.

Information about employees' compensation and directors' and supervisors' remuneration of the Company as resolved by the Board of Directors will be posted in the "Market Observation Post System" at the website of the Taiwan Stock Exchange.

## (29) Income tax

- A. Income tax expense (benefit)
  - (a) Components of income tax expense (benefit):

	Years ended December 31				
		2019	2018		
Current tax:					
Current tax on profits for the year	(\$	6,395)	\$	9,734	
Tax of foreign source income withheld at source	e (	37,049)		27,100	
Total current tax	(	43,444)		36,834	
Deferred tax:					
Origination and reversal of temporary					
differences		175,520	(	403,591)	
Total deferred tax		175,520	(	403,591)	
Income tax expense (benefit)	\$	132,076	( <u>\$</u>	366,757)	

(b) The income tax (charge)/credit relating to components of other comprehensive income is as follows:

		Years ended December 31				
		2019	2018			
Changes in fair value of financial assets at fair value through other comprehensive income	\$	70,757 (\$	117,563)			
Currency translation differences Remeasurement of defined benefit	(	72,214) (	50,281)			
obligations		1,074	6,365			
	(\$	383) (\$	161,479)			

B. Reconciliation between income tax (benefit) expense and accounting profit:

		mber 31	
		2019	2018
Tax calculated based on profit (losses) before tax and statutory tax rate		724,344) (\$	154,846)
Expenses disallowed and tax			
exempted income by tax regulation	(	3,452) (	90)
Temporary differences not recognised as			
deferred tax assets		- (	189,842)
Taxable loss not recognised as			
deferred tax assets		795,186	226,033
Investment tax not recognised as deferred tax assets		101,735	-
Prior year income tax (over) underestimation	(	37,049)	27,100
Effect from changes in tax regulation		- (	275,112)
Income tax expense (benefit)	\$	132,076 (\$	366,757)

C. Amounts of deferred tax assets or liabilities as a result of temporary differences, tax losses and investment tax credit are as follows:

	2019						
	Recognized in						
					other		
		R	ecognized in	co	mprehensive		
	January 1	p	rofit or loss		income	D	ecember 31
Deferred tax assets:							
— Temporary differences:							
Unrealized loss on inventory	\$ -	\$	47,767	\$	-	\$	47,767
Unrealized exchange loss Unrealized sales returns	-		20,345		-		20,345
and discounts Investment loss under	38,338	(	21,432)		-		16,906
equity method Impairment loss for	561,842		233,344		-		795,186
non-financial assets Loss on valuation of	43,101		-		-		43,101
financial assets Impairment loss for	254,828		-	(	137,908)		116,920
financial assets	47		-		-		47
Deferred revenue Currency translation	540		2,181		-		2,721
differences	628,485		-		221,819		850,304
Unrealized pension	27,034	(	1,832)	(	1,074)		24,128
Others	183,559	(	56,729)		-		126,830
Tax losses	1,907,130	(	171,151)		-		1,735,979
Investment tax credit	119,990	(_	101,735)		<u>-</u>		18,255
Subtotal	\$ 3,764,894	( <u>\$</u>	49,242)	\$	82,837	\$	3,798,489

	2019							
					R	ecognized in		
			Б			other		
		т 1		C	co	mprehensive	Б	1 21
	_	January 1	pr	ofit or loss		income	<u>D</u>	ecember 31
—Deferred tax liabilities:								
Unrealized	<b>(</b> f)	47)	Φ	47	Ф		Ф	
exchange gain Unrealized loss from sales	(\$	47)		47	\$	-	\$	2 110)
Bargain purchase gain	(	17,157)		14,047		-	(	3,110)
Investment gain under	(	22,670)		15,295		-	(	7,375)
equity method Gain on valuation of financial	(	532,707)	(	31,356)		-	(	564,063)
assets Currency translation	(	119,297)		-		60,515	(	58,782)
differences	(	477,196)		_	(	127,960)	(	605,156)
Others	(	214,557)		124,311)		-	(	338,868)
Subtotal	(\$	1,383,631)	1	126,278)	(\$	67,445)	(\$	1,577,354)
Total	\$	2,381,263	(\$	175,520)	\$	15,392	\$	2,221,135
				20	18			
				20		ecognized in		
						ecognized in other		
	_		Re		K	other		
	_	January 1		ecognized in	K	other nprehensive	De	ecember 31
Deferred tax assets:	_	January 1			K	other	De	ecember 31
Deferred tax assets:  — Temporary differences:	_	January 1		ecognized in	K	other nprehensive	De	ecember 31
<ul><li>Temporary differences:</li><li>Unrealized exchange loss</li></ul>	\$	January 1 277	_pr	ecognized in	con	other nprehensive	De \$	ecember 31
-Temporary differences:		277	_pr	ecognized in ofit or loss	con	other nprehensive		-
<ul> <li>Temporary differences:</li> <li>Unrealized exchange loss</li> <li>Unrealized sales returns</li> </ul>			_pr	ecognized in ofit or loss	con	other nprehensive		ecember 31 - 38,338
<ul> <li>Temporary differences:</li> <li>Unrealized exchange loss</li> <li>Unrealized sales returns</li> <li>and discounts</li> <li>Unrealized loss from sales</li> <li>Investment loss under</li> <li>equity method</li> </ul>		277 9,794	<u>pr</u> (\$	ecognized in offit or loss  277)  28,544	con	other nprehensive		-
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets		277 9,794 4,949		277) 28,544 4,949)	con	other nprehensive		38,338
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets		277 9,794 4,949 501,414		277) 28,544 4,949) 60,428	con	other nprehensive		38,338 - 561,842
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for		277 9,794 4,949 501,414 102,221 111,380	<u>pr</u> (\$	277) 28,544 4,949) 60,428 59,120)	con	other mprehensive income		38,338 - 561,842 43,101 254,828
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets		277 9,794 4,949 501,414 102,221 111,380 3,484	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437)	con	other mprehensive income		38,338 - 561,842 43,101 254,828 47
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Deferred revenue		277 9,794 4,949 501,414 102,221 111,380	<u>pr</u> (\$	277) 28,544 4,949) 60,428 59,120)	con	other mprehensive income		38,338 - 561,842 43,101 254,828
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Unrealized loss from sales Impairment loss for financial assets Unrealized loss from financial assets Unrealized loss for financial assets Unrealized loss from financial assets Unrealized loss from sales Unrealized loss from sales Unrealized loss from sales Impairment loss for financial assets Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealized loss from sales Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealiz		277 9,794 4,949 501,414 102,221 111,380 3,484 1,156	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437)	con	other mprehensive income  143,448		38,338 - 561,842 43,101 254,828 47 540
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Deferred revenue Currency translation differences		277 9,794 4,949 501,414 102,221 111,380 3,484 1,156 515,708	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437) 616)	con	other mprehensive income		38,338 - 561,842 43,101 254,828 47 540 628,485
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Unrealized loss from sales Impairment loss for financial assets Unrealized loss from financial assets Unrealized loss for financial assets Unrealized loss from financial assets Unrealized loss from sales Unrealized loss from sales Unrealized loss from sales Impairment loss for financial assets Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealized loss from sales Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Investment loss for non-financial assets Unrealized loss from sales Unrealiz		277 9,794 4,949 501,414 102,221 111,380 3,484 1,156 515,708 20,206	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437) 616) - 463	con	other mprehensive income  143,448		38,338 - 561,842 43,101 254,828 47 540 628,485 27,034
- Temporary differences:  Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Unrealized pension		277 9,794 4,949 501,414 102,221 111,380 3,484 1,156 515,708 20,206 8,884	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437) 616) - 463 174,675	con	other mprehensive income		38,338 - 561,842 43,101 254,828 47 540 628,485 27,034 183,559
- Temporary differences: Unrealized exchange loss Unrealized sales returns and discounts Unrealized loss from sales Investment loss under equity method Impairment loss for non-financial assets Loss on valuation of financial assets Impairment loss for financial assets Unrealized pension Others		277 9,794 4,949 501,414 102,221 111,380 3,484 1,156 515,708 20,206	<u>pr</u> (\$ (	277) 28,544 4,949) 60,428 59,120) - 3,437) 616) - 463	con	other mprehensive income		38,338 - 561,842 43,101 254,828 47 540 628,485 27,034

	2018							
					K	ecognized in		
						other		
			Re	cognized in	co	mprehensive		
		January 1	pro	ofit or loss		income	Γ	December 31
—Deferred tax liabilities:								
Unrealized								
exchange gain	\$	-	(\$	47)	\$	-	(\$	47)
Unrealized loss from sales		-	(	17,157)		-	(	17,157)
Bargain purchase gain Investment gain under	(	36,272)		13,602		-	(	22,670)
equity method Gain on valuation of financial	(	504,009)	(	28,698)		-	(	532,707)
assets Currency translation	(	104,743)		-	(	14,554)	(	119,297)
differences	(	393,055)		-	(	84,141)	(	477,196)
Others	(	27,235)	(	187,322)	`	-	(	214,557)
Subtotal	(\$	1,065,314)	(\$	219,622)	(\$	98,695)	(\$	1,383,631)
Total	\$	1,808,250	\$	409,118	\$	163,895	\$	2,381,263

D. Details of the amount the Company is entitled as investment tax credit and unrecognized deferred tax assets are as follows:

	Ι	December 31, 20	19			
Qualifying items		Unused tax credits		recognised red tax assets	Expiry year	
Investment credit for stockholder	\$ 499,950		\$	499,950	2020	
Investment credit for stockholder		100,000		8,725	2021	
Investment tax credits for industrial innovation		967,447		967,447	2020	
	Ι	December 31, 20	18			
Qualifying items		Unused tax credits		recognised red tax assets	Expiry year	
Investment credit for stockholder	\$	499,950	\$		2020	
Investment credit for stockholder		100,000		-	2021	
Investment tax credits for industrial innovation		793,193		793,193	2019	
Investment tax credits for industrial innovation		967,447		967,447	2020	

E. Expiration dates of unused tax losses and amounts of unrecognized deferred tax assets are as follows:

D 1	2		010
December	• 4	. 7	niu
	. ,	- Z	1117

Year incurred	Amount filed / assessed	Un	used amount	Uni	recognised deferred tax assets	Expiry year
2014	Assessed	\$	3,948,345	\$	3,948,345	2024
2015	Assessed		1,048,267		4,990	2025
2016	Assessed		3,408,870		-	2026
2018	Amount filed		852,051		-	2028
2019	Amount filed		3,375,698		-	2029

## December 31, 2018

	Amount filed /					
Year incurred	assessed	Un	used amount	 tax assets		Expiry year
2014	Assessed	\$	3,948,345	\$	-	2024
2015	Assessed		1,048,267		-	2025
2016	Assessed		3,408,870		-	2026
2018	Amount filed		852,051		-	2028

- F. The amounts of deductible temporary difference that are not recognized as deferred tax assets are as follows: None.
- G. The Company's products qualify for "Regulations for Encouraging Manufacturing Enterprises and Technical Service Enterprises in the Newly Emerging, Important and Strategic Industries" and the Company is entitled to the income tax exemption for five consecutive years. The duration has been set to start from January 1, 2017.
- H. The Company's income tax returns through 2016 have been assessed and approved by the Tax Authority.
- I. Under the amendments to the Income Tax Act which was promulgated by the President of the Republic of China on February 7, 2018, the Company's applicable income tax rate was raised from 17% to 20% effective from January 1, 2018. The Company has assessed the impact of the change in income tax rate.

## (30) Losses per share

		Yea	ar ended December 31, 20	019	
			Weighted average		
			number of outstanding		
			ordinary shares	Losses per sl	nare
	Ame	ount after tax	(share in thousands)	(in dollars	)
Basic losses per share					
Losses attributable to the parent	(\$	3,753,797)	1,078,425	( <u>\$</u>	3.48)

	Amount		weighted average number of outstand ordinary shares (share in thousands	e ing	Losses per share (in dollars)
Basic losses per share  Losses attributable to the parent	( <u>\$</u>	456,146)	1,084,	<u>686</u> ( <u>\$</u>	0.42)
(31) Supplemental cash flow informa	ation_				
A. Investing activities with part	ial cash paymo	ents			
		Dec	ember 31, 2019	De	cember 31, 2018
Purchase of property, plant a Add: Opening balance of pay		\$	1,432,484	\$	3,144,052
on equipment  Add: Ending balance of prep			953,241		727,604
for equipment  Less: Ending balance of paya			27,034		157,663
on equipment		(	389,902)	) (	953,241)
Less: Opening balance of pre for equipment	epayment	(	157,663)	) (	330,245)
Cash paid during the year		\$	1,865,194	\$	2,745,833
Intangible assets:					
		Dec	ember 31, 2019	De	cember 31, 2018
Purchase of intangible assets		\$	45,658	\$	119,774
Add: Opening balance of pay		*	142,218	4	177,597
Less: Ending balance of paya		(	94,525)	) (	142,218)
Cash paid during the year		\$	93,351	\$	155,153
B. Partial cash investing activit	ies				
		Dec	ember 31, 2019	De	cember 31, 2018
Sale of property, plant and ed	quipment	\$	282,639	\$	114,542
Add: Opening balance of rec			46,327		30,140
Less: Ending balance of rece	ivables	(	169,499)	) (	46,327)
Cash collected during the year		\$	159,467	\$	98,355
C. Cash received from disposal	of ownership	interests in	subsidiaries		
			Years ended	Dece	mber 31
			2019		2018
Disposal proceeds Less: Ending balance of rece	ivables	\$	-	\$ (	391,400 104,503)
Net cash provided by disposa	al of	_	_	_	
1 '1' '		Φ.		m	207.007

286,897

subsidiaries

# (32) Changes in liabilities from financing activities

	Short-term	Long-term	Lease	Guarantee	Liabilities from financing
	borrowings	borrowings	liabilities	depostits received	activities-gross
At January 1, 2019	\$ 449,295	\$ 575,114	\$ 1,402,458	\$ 5,347	\$ 2,432,214
Changes in cash flow from					
financing activities	( 450,400)	414,694 (	( 89,704)	( 1,782)	( 127,192)
Effect of exchange rate					
changes in borrowings	1,105	-	-	-	1,105
Effect of interest	-	-	25,501	-	25,501
Disposals		(	(29,002)		(
At December 31, 2019	\$ -	\$ 989,808	\$ 1,309,253	\$ 3,565	\$ 2,302,626

	Sl	nort-term	I	Long-term		Guarantee		abilities from financing
	bo	orrowings	b	orrowings	d	epostits received		activities-gross
At January 1, 2018	\$	700,000	\$	2,645,833	\$	6,129	\$	3,351,962
Changes in cash flow from								
financing activities	(	249,600)	(	2,079,823)	(	782)	(	2,330,205)
Effect of exchange rate								
changes in borrowings	(	1,105)		-		-	(	1,105)
Amortisation of borrowings cost				9,104				9,104
At December 31, 2018	\$	449,295	\$	575,114	\$	5,347	\$	1,029,756

# 7. <u>RELATED PARTY TRANSACTIONS</u>

# (1) Names of related parties and relationship

Names of related parties	Relationship with the Group
Lighting Investment Corp.	Subsidiary of the Company(Note 1)
Epistar JV Holding (BVI) Co.,Ltd.	Subsidiary of the Company (Note 8)
Full Star Enterprises Limited	Subsidiary of the Company
GaN Ventures Co., Limited	Subsidiary of the Company
SH Optotech Co., Ltd.	Subsidiary of the Company
iReach Corporation	Subsidiary of the Company
Unikorn Semiconductor Corporation	Subsidiary of the Company
Gan Force Corp.	Subsidiary of the Company
EPI Crystal Investment Inc.	Subsidiary of the Company (Note 1)
Yen-Rich Technology Corporation	Subsidiary of the Company (Note 3)
ProLight Opto Technology Corp.	Subsidiary of the Company (Note 4)
UEC Investment Ltd.	Subsidiary of the Company (Note 2)
Bee Rich Corporation	Subsidiary of the Company (Note 2)
HUGA Holding (BVI) Limited	Subsidiary of the Company (Note 2)
Ecoled Venture Co., Limited	Subsidiary of the Company(Note 14)
AllureLux Corporation	The Company's indirectly owned subsidiary
Lighting Investment Ltd.	The Company's indirectly owned subsidiary(Note 2)

Names	of re	lated	parties

#### Relationship with the Group

Epistar (Hong Kong) Limited

LiteStar JV Holding (BVI) Co.,Ltd.

Episky Corp.(Xiamen) Ltd.

Episky (Hong Kong) Ltd.

United LED Corporation (Hong Kong) Limited

United LED Corporation (Shandong) Limited

Epicrystal (Changzhou) Co., Ltd.

Epicrystal (Hong Kong) Co. Ltd.

Crystal Light Enterprises Group Limited

Ningbo Formosa Epitaxy Incorporation

Jiangsu Canyang Optoelectronics Ltd

Can Yang Investments Limited

GV Semiconductor Inc.

HUGA Holding (SAMOA) Limited

Yen-Rich Opto (Hong Kong) Limited

Crystaluxx SARL

Luxlite (Shenzhen) Corporation Limited

Luxlite (HK) Corporation Limited

ProLight Opto Holding Corp.

ProLight Opto Technology Corp.

Shanghai Welight Electronic Co., LTD

Interlight Optotech Corp.

AllureLux Inc.

EPIRICH (Guangzhou) Co.,Ltd

EPISKY Corporation (Changzhou) LTD

Seoul Semiconductor Co., Ltd.

Everlight Electronics Co., Ltd.

and its subsidiaries

LEDAZ Co., Ltd

Nan Ya Photonics Incorporation

Te K core Co., Ltd.

TE Opto Corporation

KAISTAR Lighting (Xiamen) Co., Ltd.

Very Optoelectronics(HUI ZHOU) Co., Ltd

Interlight Optotech (HK)Corp.

PlayNitride Inc.

Tops Electrical Technology Co., Ltd.

The Company's indirectly owned subsidiary

The Company's maneetry owned substituty

The Company's indirectly owned subsidiary
The Company's indirectly owned subsidiary

The Company's indirectly owned subsidiary

The Company's indirectly owned subsidiary(Note 4)

The Company's indirectly owned subsidiary(Note 4)

The Company's indirectly owned subsidiary(Note 4)

The Company's indirectly owned subsidiary (Note 5)

The Company's indirectly owned subsidiary(Note 6)

The Company's indirectly owned subsidiary(Note 7)

The Company's indirectly owned subsidiary(Note 8)

Other related party

## Other related party (Note 9)

Associate

Associate

Associate

Associate

Associate (Note 10)

Associate (Note 11)

Associate

Associate (Note 12)

Associate (Note 13)

Note 1: Lighting Investment Corp. proceeded with a simple merger with EPI Crystal Investment Inc. on July 1, 2018. Lighting Investment Corp. was the surviving company while EPI Crystal Investment Inc. was the dissolved company.

Note 2: Epistar JV Holding (BVI) Co., Ltd. proceeded with a simple merger with UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited on November 1, 2018.

- Epistar JV Holding (BVI) Co., Ltd was the surviving company while UEC Investment Ltd., Bee Rich Corporation and HUGA Holding (BVI) Limited were the dissolved companies.
- Note 3: Zheng-Yi Technology Corporation has been renamed as Yen-Rich Technology Corporation on August 13, 2018.
- Note 4: Lighting Investment Corp participated in ProLight Opto Technology Corp.'s private placement. The Group's shareholding ratio to ProLight Opto Technology Corp. was increased to 52.6% and the Group has control over ProLight Opto Technology Corp. starting from April 11, 2019, whereby ProLight Opto Technology Corp. became one of the Group's subsidiaries.
- Note 5: The liquidation was completed on May 31, 2018 as the company will not continue its operation.
- Note 6: The liquidation was completed on February 2019 as the company will not continue its operation.
- Note 7: The liquidation was completed on April 2019 as the company will not continue its operation.
- Note 8: The liquidation was completed on December, 2019 as the company will not continue its operation.
- Note 9: No longer an associate of the Company since June 20, 2018.
- Note 10: No longer an associate of the Company since April 26, 2018.
- Note 11: No longer an associate of the Company since March 14, 2018.
- Note 12: No longer an associate of the Company since March 6, 2018.
- Note 13: No longer an associate of the Company since March 29, 2018.
- Note 14: The liquidation was completed on December, 2019 as the company will not continue its operation.

#### (2) Significant related party transactions and balances

## A. Operating revenue:

	Years ended December 31				
		2019	2018		
Other related parties					
Everlight Electronics Co., Ltd and its subsidiaries	\$	632,479	\$	1,713,222	
Others		790		32,341	
		633,269		1,745,563	
Associates		242,038		921,551	
Subsidiaries					
Luxlite (Shenzhen) Corporation Limited		768,584		1,084,713	
Episky Corp.(Xiamen) Ltd.		1,425,371		1,951,734	
Others		1,037,872		1,360,243	
		3,231,827		4,396,690	
	\$	4,107,134	\$	7,063,804	

The sales price and collection terms to related parties are generally comparable to those of third parties which is 150 days after month-end closing. Additionally, the sales price offered to certain related parties is not comparable to third parties since there is no such transaction with third parties. All other sales prices to related parties are the same as those to third parties.

## B. Purchases:

	Years ended December 31					
		2019		2018		
Associates	\$	93	\$	47,298		
Subsidiaries						
EPISKY Corporation (Changzhou) LTD		3		1,413,330		
Epicrystal (Changzhou) Co., Ltd.		1,230,596		423,001		
Others		665,719		733,732		
		1,896,318		2,570,063		
	\$	1,896,411	\$	2,617,361		

Due to the product variety, the purchase price from the above related parties was not comparable to other suppliers while other products have no difference with market price.

## C. Receivables from related parties:

	Dece	mber 31, 2019	December 31, 2018		
Other related parties					
Everlight Electronics Co., Ltd. and its subsidiaries	\$	-	\$	924,489	
Others		237		11,359	
		237		935,848	
Associates		93,201		312,002	
Subsidiaries					
Luxlite (Shenzhen) Corporation Limited		775,081		532,415	
Episky Corp.(Xiamen) Ltd.		335,715		951,281	
Others		296,452		369,314	
		1,407,248		1,853,010	
	\$	1,500,686	\$	3,100,860	

The receivables from related parties arise mainly from sale transactions. The receivables are unsecured in nature and bear no interest.

# D. Other receivables from related parties:

	December 31, 2019	December 31, 2018
Associates	\$ 203	\$ 305
Subsidiaries		
Jiangsu Canyang Optoelectronics Ltd.	144,077	46,684
Unikorn Semiconductor Corporation	106,577	25,161
Episky Corp.(Xiamen) Ltd.	34,368	42,428
Ecoled Venture Co., Limited	-	26,215
Others	62,878	51,713
	347,900	192,201
	\$ 348,103	\$ 192,506

The other receivables from related parties arise mainly from sales of machinery and equipment and patent licensing transactions.

# E. Payables from related parties:

	Decem	December 31, 2019			
Associates	\$	148,448	\$	250,262	
Subsidiaries		586,380	î	287,986	
	\$	734,828	\$	538,248	

The payable to related parties arise mainly purchase transactions. The payable bear no interest.

# F. Property transactions:

# (a) Purchase of machinery and equipment

		Years ended December 31						
		2019			2018			
	Purc	Purchase price Payables		Purchase price		Payables		
Other related parties	\$	111	\$	-	\$	-	\$	-
Associates		22,093		-		390		-
Subsidiaries		33,547		15,912		361,876		4,638
	\$	55,751	\$	15,912	\$	362,266	\$	4,638

## (b) Disposal of property, plant and equipment

	 Years ended December 31						
	20	19			20	018	
Sales of equipment: Associates	\$ 132	\$	132	\$	1,803	(\$	131)
Subsidiaries Jiangsu Canyang							
Optoelectronics Ltd	132,258		86,898		22,647		1,011
Others	67,552		3,787		38,692	(	1,250)
	199,810		90,685		61,339	(	239)
	\$ 199,942	\$	90,817	\$	63,142	(\$	370)

## G. Processing fees

		Y ears ended December 31							
		2019				2018			
	Proce	ssing fees		Payables	Proce	essing fees		Payables	
Subsidiaries	\$	2,051	\$	863	\$	3,855	\$	1,675	

The Company directly committed Episky Corp. (Xiamen) Ltd. for processing on order. Sales revenue and cost of sales, arising from the Company selling the semi-finished goods to Episky Corp. (Xiamen) Ltd., are reversed at the end of every month, which will be recognised as processing fees in the financial statements when those semi-finished goods are manufactured and sold back by Episky Corp. (Xiamen) Ltd. In addition, accounts payable and accounts receivable are presented in the financial statements as net amounts.

## H. Loans to /from related parties:

(a) Balance at December 31, 2019 (shown as other receivables)

	December 31, 2019	December 31, 2018
Subsidiaries	\$ 87,061	\$ 134,070
(b) Interest income		
	December 31, 2019	December 31, 2018
Subsidiaries	\$ 5,868	\$ 8,855

The loan interest were 1.25%~5.53% and 2.57%~5.53% per annum for the years ended December 31, 2019 and 2018, respectively.

# I. Endorsements and guarantees provided to related parties:

The balances of guarantees provided to related parties for credit line of bank borrowings is as follows:

	Dec	ember 31, 2019	Dece	mber 31, 2018
Subsidiaries				
Episky Corp. (Xiamen) Ltd.	\$	2,518,320	\$	2,871,329
Jiangsu Canyang Optoelectronics Ltd		389,740		399,295
<b>Unikorn Semiconductor Corporation</b>		699,900		-
Yen-Rich Technology Corporation		149,900		<u> </u>
	\$	3,757,860	\$	3,270,624
J. Other				
(a) Royalty and technical income				
		Years ended	Decemb	per 31
		2019		2018
Associates	\$	1,517	\$	2,701
Subsidiaries		55,708		79,577
	\$	57,225	\$	82,278
(b) Fee income				
(b) Tee meome		Voors on dod	Dagami	- om 21
		Years ended 2019	Decemi	2018
Subsidiaries	\$	6,690	\$	3,667
	<u> </u>	0,090	<u> </u>	3,007
(c) Other income				
		Years ended	Decemb	per 31
		2019		2018
Associates	\$	786	\$	2,646
Subsidiaries		35,654		89,351
	\$	36,440	\$	91,997
(d) Rental revenue				
(a) Temai revenue		Years ended	Dagami	20r 21
		2019	Deceim	2018
Subsidiaries	\$	57,762	\$	8,468
	Ψ	37,702	Ψ	0,100
(3) <u>Key management compensation</u>				
		Years ended	Decem	ber 31
		2019		2018
Salaries and other short-term employee benefits	\$	94,328	\$	99,114
Post-employment benefits		1,962		1,900
	\$	96,290	\$	101,014

#### 8. PLEDGED ASSETS

The Company's assets pledged as collateral are as follows:

		Book			
Pledged asset	set December 31, 2019 December 31, 2018		mber 31, 2018	Purpose	
Bank deposits	\$	101,986	\$	97,546	Lease deposit,
(Shown in "Other assets-					Collateral deposits for
other")					provisional seizure
Buildings and structures		516,622		577,376	Long-term borrowings
	\$	618,608	\$	674,922	

# 9. <u>SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED CONTRACT</u> <u>COMMITMENTS</u>

(1) Capital expenditure contracted for at the balance sheet date but not yet incurred is as follows:

	Decem	December 31, 2019		December 31, 2018	
Property, plant and equipment	\$	319,101	\$	926,215	

## (2) Operating lease commitments

The Company's operating lease contracts for land, factories, dorms and automobiles are irrevocable and most of them can be renewed at market price at the end of the lease term.

The future aggregate minimum lease payments under non-cancellable operating leases are as follows:

	December 31, 2018	
Not later than one year	\$	51,111
Later than one year but not later than five years		168,060
Later than five years		411,126
Total	\$	630,297

On October 12, 2012, the Trustees of Boston University filed a lawsuit against the Company, alleging patent infringement. In November 2015, the verdict of a Massachusetts federal jury for the first instance stated that the Company shall pay compensation of US\$ 9.3 million. However, the Company won the verdict from the United States Court of Appeals for the Federal Circuit that stated in the second instance that the alleging patent infringement is invalid on July 25, 2018.

#### 10. SIGNIFICANT DISASTER LOSS

None.

## 11. SIGNIFICANT EVENTS AFTER THE BALANCE SHEET DATE

None.

## 12. OTHERS

#### (1) Capital risk management

The Company's capital management policy is established taking into account the industry characteristics, the Company's future development and changes in external environments. The Company plans the working capital, capital expenditures, investments and dividends required for the future based on the capital management policy, makes financial analysis, and examines its capital

structure periodically and makes appropriate adjustments to ensure that every entity within the Company may grow and operate indefinitely.

# (2) Financial instruments

# A. Financial instruments by category

	Dece	mber 31, 2019	December 31, 2018
Financial assets			
Financial assets at fair value through profit or loss			
Financial assets mandatorily measured at fair	\$	407,662	\$ 40,923
value through profit or loss			
Financial assets at fair value through other		1,465,837	1,097,917
comprehensive income		1,403,637	1,097,917
Designation of equity instrument		-	-
Financial assets at amortised cost			
Cash and cash equivalents		2,312,265	3,012,708
Notes receivable		813,367	521,031
Accounts receivable		3,896,102	4,076,544
Accounts receivable due from related parties		1,500,686	3,100,860
Other receivables		98,448	191,748
Other receivables due from related parties		435,164	326,576
Guarantee deposits paid		7,071	6,545
Other financial assets		101,992	97,552
	\$	11,038,594	<u>\$ 12,472,404</u>
Financial liabilities			
Financial liabilities at amortised cost			
Short-term borrowings	\$	-	\$ 449,295
Notes payable		4,122	9,421
Accounts payable		1,058,122	1,565,828
Accounts payable to related parties		734,828	538,248
Other payables		1,743,340	2,852,214
Lease liabilities(including current portion)		1,309,253	-
Long-term borrowings (including current portion)		989,808	575,114
Long-term accounts payable		47,365	95,059
Guarantee deposits received		3,565	5,347
Commission deposits received	\$	5,890,403	\$ 6,090,526

## B. Financial risk management policies

(a) The Company's activities expose it to a variety of financial risks: market risk (including foreign exchange risk, interest rate risk and price risk), credit risk and liquidity risk. The purpose of risk management is to minimise potential adverse effects arising from uncertainty on the Company's financial performance.

- (b) Risk management is carried out by treasury and finance departments of the Company under policies approved by the Board of Directors. Treasury and finance departments of the Company identifies, evaluates and hedges financial risks in close co-operation with the Company's operating units. The Board provides written principles for overall risk management, as well as written policies covering specific areas and matters, such as foreign exchange risk, interest rate risk, credit risk, use of derivative financial instruments and non-derivative financial instruments, and investment of excess liquidity.
- C. Significant financial risks and degrees of financial risks
  - (a) Market risk

## Foreign exchange risk

- i. The Company operates internationally and is exposed to exchange rate risk arising from the transactions of the Company and its subsidiaries used in various functional currency, primarily with respect to the USD, JPY and RMB. Exchange rate risk arises from future commercial transactions and recognised assets and liabilities.
- ii. Management has set up a policy to require the Company to manage their foreign exchange risk against their functional currency. The companies are required to hedge their entire foreign exchange risk exposure with the Company treasury.
- iii. The Company's businesses involve some non-functional currency operations (the functional currency of the Company and certain subsidiaries is NTD while that of other subsidiaries are USD and RMB). The information on assets and liabilities denominated in foreign currencies whose values would be materially affected by the exchange rate fluctuations is as follows:

December 31, 2019				
Foreign currency amount (in Thousands)		Exchange rate	(in Tl	Book value nousands of NTD)
\$	137,878	29.980	\$	4,133,592
	442,775	4.3050		1,906,148
	349,952	29.980		10,491,556
	33,090	29.980		992,044
	232,899	4.3050		1,002,632
	103,668	0.2760		28,612
	_ (in '	amount (in Thousands)  \$ 137,878 442,775 349,952  33,090 232,899	Foreign currency amount (in Thousands) Exchange rate  \$ 137,878	Foreign currency amount (in Thousands) Exchange rate (in The State of State

	 December 31, 2018									
	ign currency amount Thousands)	Exchange rate	Book value (in Thousands of NTI							
(Foreign currency:										
functional currency)										
Financial assets										
Monetary items										
USD:NTD	\$ 164,561	30.715	\$	5,054,485						
RMB:NTD	457,620	4.4720		2,046,476						
Non-monetary items										
USD:NTD	386,006	30.715		11,856,183						
Financial liabilities										
Monetary items										
USD:NTD	80,169	30.715		2,462,384						
RMB:NTD	134,010	4.4720		599,294						
JPY:NTD	270,761	0.2782		75,326						

iv. Please refer to the following table for the details of unrealized exchange gain (loss) arising from significant foreign exchange variation on the monetary items held by the Company.

	Year ended December 31, 2019									
Unrealized exchange gain (loss)										
Foreign	currency									
am	ount		В	ook value						
(in The	ousands)_	Exchange rate	(in Tho	usands of NTD)						
\$	-	29.980	(\$	106,196)						
	-	4.3050	(	33,977)						
	-	29.980		26,300						
	-	4.3050		12,006						
	-	0.2760		424						
	am (in Tho	Unre Foreign currency amount (in Thousands)	Unrealized exchange	Foreign currency amount (in Thousands) Exchange rate (in Thousands)  \$ - 29.980 (\$ - 4.3050 (\$ - 29.980 - 4.3050)						

	Year ended December 31, 2018								
	Unrealized exchange gain (loss)								
	Foreign	n currency			_				
	an	nount		Boo	k value				
	(in Th	ousands)	Exchange rate	(in Thous	ands of NTD)				
(Foreign currency:					_				
functional currency)									
Financial assets									
Monetary items									
USD:NTD	\$	-	30.715	(\$	2,608)				
RMB:NTD		-	4.472	(	4,648)				
Financial liabilities									
Monetary items									
USD:NTD		-	30.715		7,243				
RMB:NTD		-	4.4720		447				
JPY:NTD		_	0.2782	(	1,126)				

v. Analysis of foreign currency market risk arising from significant foreign exchange variation:

	Year ended December 31, 2019									
	Sensitivity analysis									
		Effect on profit or								
	Extent of variation		loss	Effect on equity						
(Foreign currency:	_									
functional currency)										
Financial assets										
Monetary items										
USD:NTD	1%	\$	41,336	\$ -						
RMB:NTD	1%		19,061	-						
Non-monetary item				-						
USD:NTD	1%		-	104,916						
Financial liabilities										
Monetary items										
USD:NTD	1%		9,920	-						
RMB:NTD	1%		10,026	-						
JPY:NTD	1%		286	-						

	Year ended December 31, 2018									
	Sensitivity analysis									
		Effe	ect on profit or							
	Extent of variation		loss	Effect on equity						
(Foreign currency:										
functional currency)										
Financial assets										
Monetary items										
USD:NTD	1%	\$	50,545	\$	-					
RMB:NTD	1%		20,465		-					
Non-monetary item					-					
USD:NTD	1%		-		118,562					
Financial liabilities										
Monetary items										
USD:NTD	1%		24,624		-					
RMB:NTD	1%		5,993		-					
JPY:NTD	1%		753		-					

### Price risk

- i. The Company's equity securities, which are exposed to price risk, are the held financial assets at fair value through profit or loss, financial assets at fair value through other comprehensive income. To manage its price risk arising from investments in equity securities, the Company diversifies its portfolio. Diversification of the portfolio is done in accordance with the limits set by the Company.
- ii. The Company's investments in equity securities comprise shares and open-end funds issued by the domestic companies. The prices of equity securities would change due to the change of the future value of investee companies. If the prices of these equity securities had increased/decreased by 10% with all other variables held constant, post-tax profit for the years ended December 31, 2019 and 2018 would have increased/decreased by \$40,766 and \$4,092, respectively, as a result of gains/losses on equity securities classified as at fair value through profit or loss. Other components of equity would have increased/decreased by \$146,584 and \$109,792, respectively, as a result of other comprehensive income classified as equity investment at fair value through other comprehensive income.

### Cash flow and fair value interest rate risk

i. The Company's interest rate risk arises from bank deposits and long-term borrowings. Borrowings issued at variable rates expose the Company to cash flow interest rate risk which is partially offset by cash and cash equivalents held at variable rates. Borrowings issued at fixed rates expose the Company to fair value interest rate risk. The Company's borrowings at variable rate were denominated in the USD and NTD.

ii. Based on the simulations performed on sensitivity analysis for interest rate risk, the maximum impact on post-tax profit of a 0.1% shift would be increased/decreased of \$481 and \$301 for the years ended December 31, 2019 and 2018, respectively. The simulation is done on a quarterly basis to ensure that the potential maximum loss is within the limit set by the management.

### (b) Credit risk

- i. Credit risk refers to the risk of financial loss to the Company arising from default by the clients or counterparties of financial instruments on the contract obligations. The main factor is that counterparties could not repay in full the accounts receivable based on the agreed terms, and the contract cash flows of debt instruments stated at amortised cost, at fair value through profit or loss and at fair value through other comprehensive income.
- ii. The Company adopts the assumptions under IFRS 9, the default occurs when the contract payments are past due over 90 days.
- iii. The Company adopts following assumptions under IFRS 9 to assess whether there has been a significant increase in credit risk on that instrument since initial recognition:

  If the contract payments were past due over 30 days based on the terms, there has been a significant increase in credit risk on that instrument since initial recognition.
- iv. The following indicators are used to determine whether the credit impairment of debt instruments has occurred:
  - (i) It becomes probable that the issuer will enter bankruptcy or other financial reorganization due to their financial difficulties;
  - (ii) The disappearance of an active market for that financial asset because of financial difficulties;
  - (iii) Default or delinquency in interest or principal repayments;
  - (iv) Adverse changes in national or regional economic conditions that are expected to cause a default.
- v. The Company classifies customers' accounts receivable, contract assets and rents receivable in accordance with credit rating of customer. The Company applies the simplified approach using provision matrix, loss rate methodology to estimate expected credit loss under the provision matrix basis.
- vi. The Company wrote-off the financial assets, which cannot be reasonably expected to be recovered, after initiating recourse procedures. However, the Company will continue executing the recourse procedures to secure their rights. As of December 31, 2019 and 2018, the Company's written-off financial assets that are still under recourse procedures amounted to \$16,753 and \$16,753, respectively.

vii. The Company used the forecast ability of Taiwan Institute of Economic Research boom observation report to adjust historical and timely information to assess the default possibility of accounts receivable and other receivables. As of December 31, 2019 and 2018, the provision matrix, loss rate methodology is as follows:

December 31, 2019         past due         Total           Expected loss rate         0.01%         0.01%~0.16%         0.01%~55.66%         0.01%~100			Up to 30 days	31~90 days past	91~180 days	Over 180 days	
Expected loss rate		Not past due	past due	due	past due	past due	Total
Total book value         \$ 6,273,093         \$ 192,162         \$ 189,178         \$ 29,413         \$ 67,307         \$ 6,751,153           Loss allowance         \$ 229         \$ 104         \$ 109,103 <td< td=""><td><u>December 31, 2019</u></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	<u>December 31, 2019</u>						
Loss allowance   S   229	Expected loss rate	0.01%	0.01%~0.16%	0.01%~55.66%	0.01%~100%	0.01%~100%	
December 31, 2018         Image: Expected loss rate loss allowance         0.01%~0.07% loss days loss allowance         0.01%~1.08% loss allowance         0.01%~1.00% loss allowance         0.01%~1.00% loss allowance         7,677,661           Expected loss rate         100% loss allowance         0.01%~1.00% loss allowance         Total         Total           December 31, 2019         100% loss allowance         7,283 loss allowance         6,743,870 loss allowance         6,751,153 loss allowance           Loss allowance         7,283 loss allowance         100% loss allowance         100% loss allowance         6,743,870 loss allowance         6,751,153 loss allowance           December 31, 2018         100% loss allowance         0%~100% loss allowance         Total           December 31, 2018         100% loss allowance         0%~100% loss allowance         Total	Total book value	\$ 6,273,093	\$ 192,162	\$ 189,178	\$ 29,413	\$ 67,307	\$ 6,751,153
December 31, 2018         Expected loss rate         0.01%~0.07%         0.01%~1.08%         0.01%~18.71%         0.01%~100%         0.01%~100%         0.01%~100%           Total book value         \$ 7,267,342         \$ 244,466         \$ 59,578         \$ 59,340         \$ 46,935         \$ 7,677,661           Loss allowance         \$ 1,748         \$ 850         \$ 238         \$ 2,471         \$ 13,947         \$ 19,254           Expected loss rate         Individual provision         Group provision         Total           Loss allowance         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 6,743,870         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         \$ 100%         0%~100%           Expected loss rate         100%         0%~100%           Total book value         \$ 8,236,013	Loss allowance	\$ 229		\$ -	*		\$ 7,387
December 31, 2018           Expected loss rate         0.01%~0.07%         0.01%~1.08%         0.01%~18.71%         0.01%~100%         0.01%~100%         5.01%~100%         0.01%~100%         0.01%~100%         1.00%         1.00%         0.01%~100%         0.01%~100%         1.00%         1.00%         0.01%~100%         0.01%~100%         1.00%         1.00%~100%         0.01%~100			1		•	,	
Expected loss rate         0.01%~0.07%         0.01%~1.08%         0.01%~18.71%         0.01%~100%         0.01%~100%         100%           Total book value         \$ 7,267,342         \$ 244,466         \$ 59,578         \$ 59,340         \$ 46,935         \$ 7,677,661           Loss allowance         \$ 1,748         \$ 850         \$ 238         \$ 2,471         \$ 13,947         \$ 19,254           December 31, 2019           Expected loss rate         100%         0.01%~100%         Total           Total book value         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         \$ 100%         0%~100%           Expected loss rate         100%         0%~100%           Total book value         \$ 8,236,013		Not past due	past due	due	past due	past due	Total
Total book value         \$ 7,267,342         \$ 244,466         \$ 59,578         \$ 59,340         \$ 46,935         \$ 7,677,661           Loss allowance         \$ 1,748         \$ 850         \$ 238         \$ 2,471         \$ 13,947         \$ 19,254           December 31, 2019           Expected loss rate         100%         0.01%~100%         Total           Total book value         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013	<u>December 31, 2018</u>						
Loss allowance         \$ 1,748   \$ 850   \$ 238   \$ 2,471   \$ 13,947   \$ 19,254             Individual provision         Group provision         Total           Expected loss rate         100% 0.01%~100%         6,743,870   \$ 6,751,153             Total book value         \$ 7,283   \$ 6,743,870   \$ 6,751,153           \$ 6,751,153             Loss allowance         \$ 7,283   \$ 104   \$ 7,387           \$ 7,387             Individual provision         Group provision         Total           December 31, 2018         Expected loss rate         100% 0%~100%           Total book value         \$ 14,083   \$ 8,221,930   \$ 8,236,013	Expected loss rate	0.01%~0.07%	0.01%~1.08%	0.01%~18.71%	0.01%~100%	0.01%~100%	
Individual provision         Group provision         Total           December 31, 2019         5         100%         0.01%~100% <td>Total book value</td> <td>\$ 7,267,342</td> <td>\$ 244,466</td> <td>\$ 59,578</td> <td>\$ 59,340</td> <td>\$ 46,935</td> <td>\$ 7,677,661</td>	Total book value	\$ 7,267,342	\$ 244,466	\$ 59,578	\$ 59,340	\$ 46,935	\$ 7,677,661
December 31, 2019         100%         0.01%~100%           Total book value         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013	Loss allowance	\$ 1,748	\$ 850	\$ 238	\$ 2,471	\$ 13,947	\$ 19,254
Expected loss rate         100%         0.01%~100%           Total book value         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013			Individual p	provision (	Group provis	ion	Total
Total book value         \$ 7,283         \$ 6,743,870         \$ 6,751,153           Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013	December 31, 2	2019					
Loss allowance         \$ 7,283         \$ 104         \$ 7,387           Individual provision         Group provision         Total           December 31, 2018         Total         0%~100%           Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013	Expected loss r	ate		100%	0.01%~10	00%	
Individual provision         Group provision         Total           December 31, 2018         100%         0%~100%           Expected loss rate         100%         0%~100%           Total book value         \$ 14,083         \$ 8,221,930         \$ 8,236,013	Total book valu	ie	\$	7,283 \$	6,743,	<u>\$70</u> <u>\$</u>	6,751,153
December 31, 2018         Expected loss rate       100%       0%~100%         Total book value       \$ 14,083       \$ 8,221,930       \$ 8,236,013	Loss allowance	;	\$	7,283 \$		104 \$	7,387
Expected loss rate       100%       0%~100%         Total book value       \$ 14,083       \$ 8,221,930       \$ 8,236,013			Individual p	provision C	Broup provis	ion	Total
Total book value \$ 14,083 \ \$ 8,221,930 \ \$ 8,236,013	December 31, 2	<u>2018</u>					
	Expected loss r	ate		100%	0%~10	00%	
Loss allowance \\$ 14,083 \\$ 5,171 \\$ 19,254	Total book valu				8,221,		8,236,013
	Loss allowance	;	\$	14,083 \$	5,	<u>171</u> \$	19,254

viii. Movements in relation to the Company applying the simplified approach to provide loss allowance for accounts receivable, and other receivables are as follows:

	Year ended December 31, 2019								
	Accoun	nts receivable	Other receivables						
At January 1	\$	19,254	\$ -						
Provision for impairment		20,690	37,265						
Reversal of impairment	(	29,360) (	30,211)						
Write-offs	(	10,251)							
At December 31	\$	333	\$ 7,054						

	Year ended December 31, 201							
	Acco	ounts receivable	Other receivables					
At January 1_IAS 39	\$	31,421	\$	4,200				
Adjustment for retrospective application		2,318						
At January 1_IFRS 9		33,739		4,200				
Provision for impairment		3,684		79				
Reversal of impairment	(	926)	(	4,200)				
Write-offs	(	17,243)	(_	79)				
At December 31	\$	19,254	\$					

# (c) Liquidity risk

- i. Cash flow forecasting is performed in the operating entities of the Company and aggregated by Company treasury. Company treasury monitors rolling forecasts of the Company's liquidity requirements to ensure it has sufficient cash to meet operational needs while maintaining sufficient headroom on its undrawn committed borrowing facilities at all times so that the Company does not breach borrowing limits or covenants on any of its borrowing facilities. Such forecasting takes into consideration the Company's debt financing plans, covenant compliance, compliance with internal balance sheet ratio targets and external regulatory or legal requirements.
- ii. Surplus cash are invested in interest bearing current accounts, time deposits, money market deposits and marketable securities, with appropriate maturities or sufficient liquidity to provide sufficient headroom and meet the above-mentioned forecasts. As of December 31, 2019 and 2018, the Company held money market position of \$2,719,927 and \$3,053,631, respectively, and those are expected to readily generate cash inflows for managing liquidity risk.
- iii. The table below shows analysis of the Company's non-derivative financial liabilities and net-settled or gross-settled derivative financial liabilities into relevant maturity groupings based on the remaining period at the balance sheet date to the contractual maturity date for non-derivative financial liabilities and to the expected maturity date for derivative financial liabilities. The amounts disclosed in the table are the contractual undiscounted cash flows.

Non-derivative	financial	<u>liabilities:</u>

December 31, 2019	Less	than 1 year	Between 1 and 5 years		Between 5 and 7 years	Over 7 years
Notes payable	\$	4,122	\$	-	\$ -	\$ -
Accounts payable		1,792,950		-	-	-
Other payables		1,743,340		-	-	-
Lease liabilities		82,260		269,277	108,875	1,200,827
Long-term borrowings (including current portion)		79,252		937,822	-	-
Long-term accounts payable (including current portion)		-		47,365	-	-
Other financial liabilities		3,032		-	533	-

December 31, 2018	Less	than 1 year	Bet	ween 1 and 5 years	Between 5 and 7 years	(	Over 7 years
Short-term borrowings	\$	449,295	\$	-	\$	\$	-
Notes payable		9,421		-	-		-
Accounts payable		2,104,076		-	-		-
Other payables		2,852,214		-	-		-
Long-term borrowings (including current portion)		171,144		414,535	-		-
Long-term accounts payable (including current portion)		-		95,059	-		-
Other financial liabilities		4,502		762	-		533

iv. The Company does not expect the timing of the estimated cash outflows through the maturity date analysis will be significantly earlier, nor expect the actual cash flow amount will be significantly different.

# (3) Fair value information

- A. The different levels that the inputs to valuation techniques are used to measure fair value of financial and non-financial instruments have been defined as follows:
  - Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date. A market is regarded as active where a market in which transactions for the asset or liability take place with sufficient frequency and volume to provide pricing information on an ongoing basis. The fair value of the Company's investment in listed stocks and beneficiary certificates is included in Level 1.
  - Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly. The fair value of the Company's investment in convertible bonds and most derivative instruments is included in Level 2.
  - Level 3: Unobservable inputs for the asset or liability. The fair value of the Company's investment in equity investment without active market is included in Level 3.
- B. Financial instruments not measured at fair value
  - (a) Except for those listed in the table below, the carrying amounts of cash and cash equivalents, notes receivable, accounts receivable, other receivables, refundable deposits, other financial assets, short-term borrowings, short-term notes and bills payable, notes payable, accounts payable, other payables, long-term accounts payable and guarantee deposits received are approximate to their fair values.

		December 31, 2019								
			Fair value							
	Во	ok value		Level 1			Level 2		Level 3	
Financial liabilities: Long-term borrowings										
(including current portion)	\$	989,808	\$		_	\$	1,002,905	\$		

			Dece	mbe	r 31, 2	2018		
					F	air value		
	B	ook value	 Level 1			Level 2	 Level 3	
Financial liabilities:								
Long-term borrowings								
(including current portion)	\$	575,114	\$		\$	577,226	\$	

- (b) The methods and assumptions of fair value estimation are as follows:
  - Long-term borrowings: They are measured at present value, which is calculated based on the cash flow expected to be paid and discounted using a market rate prevailing at balance sheet date.
- C. The related information of financial and non-financial instruments measured at fair value by level on the basis of the nature, characteristics and risks of the assets and liabilities is as follows:
  - (a) The related information of natures of the assets and liabilities is as follows:

December 31, 2019		Level 1	_	Level 2			Level 3		Total
Assets									
Recurring fair value measurements									
Financial assets at fair value through									
profit or loss									
Equity securities	\$	249,900	\$		-	\$	157,762	\$	407,662
Financial assets at fair value through									
other comprehensive income		104077					1.200.000		1 465 025
Equity securities	_	184,977	_		_	_	1,280,860	_	1,465,837
	\$	434,877	\$		_	\$	1,438,622	\$	1,873,499
December 31, 2018		Level 1		Level 2			Level 3		Total
December 31, 2018 Assets		Level 1		Level 2	_		Level 3		Total
•		Level 1		Level 2		_	Level 3		Total
Assets		Level 1		Level 2			Level 3		Total
Assets Recurring fair value measurements		Level 1		Level 2			Level 3	_	Total
Assets <u>Recurring fair value measurements</u> Financial assets at fair value through	\$	Level 1 40,923	\$	Level 2		\$	Level 3	\$	Total 40,923
Assets Recurring fair value measurements Financial assets at fair value through profit or loss Equity securities Financial assets at fair value through	\$		\$	Level 2		\$	Level 3	\$	
Assets  Recurring fair value measurements Financial assets at fair value through profit or loss  Equity securities Financial assets at fair value through other comprehensive income	\$	40,923	\$	Level 2		\$	-	\$	40,923
Assets Recurring fair value measurements Financial assets at fair value through profit or loss Equity securities Financial assets at fair value through	\$		\$	Level 2	<u> </u>	\$	Level 3 - 908,409	\$	

- (b) The methods and assumptions the Company used to measure fair value are as follows:
  - i. The instruments the Company used market quoted prices as their fair values (that is, Level 1) are listed below by characteristics:

	Listed shares	Closed-end fund	Open-end fund
Market quoted price	Closing price	Closing price	Net asset value

ii. Except for financial instruments with active markets, the fair value of other financial instruments is measured by using valuation techniques or by reference to counterparty quotes. The fair value of financial instruments measured by using valuation techniques can be referred to current fair value of instruments with similar terms and characteristics in substance, discounted cash flow method or other valuation methods, including calculated

- by applying model using market information available at the consolidated balance sheet date.
- iii. When assessing non-standard and low-complexity financial instruments, for example, debt instruments without active market and foreign exchange swap contracts, the Company adopts valuation technique that is widely used by market participants. The inputs used in the valuation method to measure these financial instruments are normally observable in the market.
- iv. For high-complexity financial instruments, the fair value is measured by using self-developed valuation model based on the valuation method and technique widely used within the same industry. The valuation model is normally applied to derivative financial instruments, debt instruments with embedded derivatives or securitised instruments. Certain inputs used in the valuation model are not observable at market, and the Company must make reasonable estimates based on its assumptions. The effect of unobservable inputs to the valuation of financial instruments is provided in Note 12(3) A.
- v. The output of valuation model is an estimated value and the valuation technique may not be able to capture all relevant factors of the Company's financial and non-financial instruments. Therefore, the estimated value derived using valuation model is adjusted accordingly with additional inputs, for example, model risk or liquidity risk and etc. In accordance with the Company's management policies and relevant control procedures relating to the valuation models used for fair value measurement, management believes adjustment to valuation is necessary in order to reasonably represent the fair value of financial and non-financial instruments at the consolidated balance sheet. The inputs and pricing information used during valuation are carefully assessed and adjusted based on current market conditions.
- (c) The following chart is the movement of Level 3 for the years ended December 31, 2019 and 2018:

	Equ	ity securities
At January 1, 2019	\$	908,409
Gain recognised in profit or loss		136,389
Loss recognised in other comprehensive income		372,451
Additions		45,276
Disposals in the year	(	23,903)
At December 31, 2019	\$	1,438,622

	<u>Equi</u>	ty securities
At January 1, 2018	\$	941,567
Gain recognised in profit or loss	(	232)
Loss recognised in other comprehensive income	(	441,276)
Disposals in the year	(	12,923)
Transfers into level 3		421,273
At December 31, 2018	\$	908,409

- D. The Company lost significant influence over PlayNitride Inc. and KAISTR Lighting (Xiamen) Co., Ltd. as their shares owned by the Company were less than 20% as at March 6, 2018 and April 26, 2018, respectively. Therefore, the Company reclassified them into financial assets at fair value through other comprehensive income in accordance with IFRSs. Additionally, the Company transferred the fair values into Level 3 as there is insufficient observable market information.
- E. Treasury department is in charge of valuation procedures for fair value measurements being categorised within Level 3, which is to verify independent fair value of financial instruments. Such assessment is to ensure the valuation results are reasonable by applying independent information to make results close to current market conditions, confirming the resource of information is independent, reliable and in line with other resources and represented as the exercisable price, and frequently calibrating valuation model, performing back-testing, updating inputs used to the valuation model and making any other necessary adjustments to the fair value.

F. The following is the qualitative information of significant unobservable inputs and sensitivity analysis of changes in significant unobservable inputs to valuation model used in Level 3 fair value measurement:

			Significant		
	Fair value at	Valuation	unobservable	Range	Relationship of
	December 31, 2019	technique	input	(weighted average)	inputs to fair value
Non-derivative equity instrume	ent:				
Unlisted shares	\$ 485,611	Market comparable companies	Price to book ratio multiple	1.17~2.48	The higher the multiple, the higher the fair value.
			Discount for lack of marketability	20%~30%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	791,211	Market comparable companies	Price to earnings ratio multiple	16.83~17.50	The higher the multiple, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	161,800	Market comparable companies	Enterprise value to operating income ratio	2.57	The higher the multiple value, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.

			Significant		
	Fair value at	Valuation	unobservable	Range	Relationship of
	December 31, 2018	technique	<u>input</u>	(weighted average)	inputs to fair value
Non-derivative equity instrume	ent:				
Unlisted shares	\$ 439,240	Market comparable companies	Price to book ratio multiple	0.45~1.90	The higher the multiple, the higher the fair value.
			Discount for lack of marketability	20%~30%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	465,131	Market comparable companies	Price to earnings ratio multiple	19.30~19.39	The higher the multiple, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.
Unlisted shares	4,038	Market comparable companies	Enterprise value to operating income ratio	26.11	The higher the multiple value, the higher the fair value.
			Discount for lack of marketability	20%	The higher the discount for lack of marketability, the lower the fair value.

G. The Company has carefully assessed the valuation models and assumptions used to measure fair value. However, use of different valuation models or assumptions may result in different measurement. The following is the effect of profit or loss or of other comprehensive income from financial assets and liabilities categorised within Level 3 if the inputs used to valuation models have changed:

				December	r 31, 2019	
			· ·	ed in profit loss	Č	ed in other
	Input	Change	Favourable change	Unfavourable change	Favourable change	Unfavourable change
Financial assets	Multiple	±1%	\$ 1,578	(\$ 1,578)	\$ 12,809	(\$ 12,809)
Equity instrument	winipie	±170	φ 1,576	December		( <u>\$ 12,007)</u>
			· ·	ed in profit	Recognis	ed in other
	Input	Change	Favourable change	Unfavourable change	Favourable change	Unfavourable change
Financial assets						
			\$ -	\$ -	\$ 9,084	(\$ 9,084)

### 13. SUPPLEMENTARY DISCLOSURES

### (1) Significant transactions information

- A. Loans to others: Please refer to table 1.
- B. Provision of endorsements and guarantees to others: Please refer to table 2.
- C. Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures): Please refer to table 3.
- D. Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital: Please refer to table 4.
- E. Acquisition of real estate reaching NT\$300 million or 20% of paid-in capital or more: None.
- F. Disposal of real estate reaching NT\$300 million or 20% of paid-in capital or more: None.
- G. Purchases or sales of goods from or to related parties reaching NT\$100 million or 20% of paid-in capital or more: Please refer to table 5.
- H. Receivables from related parties reaching NT\$100 million or 20% of paid-in capital or more: Please refer to table 6.
- I. Trading in derivative instruments undertaken during the reporting periods: None.
- J. Significant inter-company transactions during the reporting periods: Please refer to table 7.

### (2) Information on investees

Names, locations and other information of investee companies (not including investees in Mainland China): Please refer to table 8.

### (3) Information on investments in Mainland China

- A. Basic information: Please refer to table 9.
- B. Significant transactions, either directly or indirectly through a third area, with investee companies in the Mainland Area: Please refer to table 10.

# 14. <u>SEGMENT INFORMATION</u>

General information:

None.

Expressed in thousands of NTD (Except as otherwise indicated)

	Footnote	Note 1	Note 1	Note 1	Note 2	Note 3	Note 4	Note 4
Ceiling on total	loans granted	13,565,757	13,565,757	13,565,757	1,073,320	1,313,847	115,553	115,553
× ×	single party	4,521,919 \$	4,521,919	4,521,919	858,656	875,898	115,553	115,553
	Value	• <del>•</del>	•					
	Item	None	None	None	None	None	None	None
Allowance for doubtful	accounts	· •	1	1	•	•	•	1
Reason for short-term	financing	Working capital	Working capital	Working capital	Working capital	Working capital	Working capital	Working capital
Amount of transactions with the	borrower	&a	•	1	•	•	•	•
Interest Nature of	loan	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing	Short- term financing
Interest	rate	4.20%	5.53%	1.25%	5.00%	4.35%	3.02%	3.30%
Actual	drawn down	\$ 86,100	•	•	•	172,200	•	95,936
Balance at December 31,	2019	\$ 430,500	861,000	300,000	1	344,400	•	95,936
m ng ring ded 31,	2019	879,000	1,824,000	300,000	460,300	368,240	15,800	101,120
Is a related	party	¥	>	>	7	¥	>	>-
General	account	Other receivables-related	Other receivables- related parties	Other receivables- related parties	Other receivables- related	Other receivables- related	Other receivables-	Other receivables-related parties
	Borrower	Jiangsu Canyang Optoelectronics Ltd	Episky Corporation (Xiamen) Ltd.	Yen-Rich Technology Corporation.		Jiangsu Canyang Optoelectronics Ltd	Ecoled Venture Co., Limited	Lighting Inrestment Corporation.
	Creditor	Jiangsu Canyang Epistar Corporation Optoelectronics Ltd	Episky Epistar Corporation Corporation (Xiamen) Lt	Yen-Rich Epistar Corporation Technology Corporation	Episky Corporation Jiangsu Canyang (Xiamen) Ltd.	Epicrystal (Changzhou) Co., Ltd.	Yen-Rich Opto (Hong Kong) Limited	Yen-Rich Opto (Hong Kong) Limited
	No.	0	0	0	-	7	ю	ю

Note 1: In accordance with Epistar Corporation's Procedures for Provision of Loans: the limit on loans granted to a single party is 10% of its net equity, and the ceiling on total loans granted is 50% of its net equity.

Note 2: In accordance with Episky Corporation (Xiamen) Ltd.'s Procedures for Provision of Loans: the limit on loans granted to a single party is 40% of its net equity, and the ceiling on total loans granted is 30% of its net equity.

Note 3: In accordance with Epicrystal (Changzhou) Co., Ltd.'s Procedures for Provision of Loans: the limit on loans granted to a single party is 40% of its net equity, and the ceiling on total loans granted is 40% of its net equity.

Note 4: In accordance with Yen-Rich Opto (Hong Kong) Limited's Procedures for Provision of Loans: the limit on loans granted to a single party is 40% of its net equity.

Expressed in thousands of NTD (Except as otherwise indicated)

endorsed/guaranteed Party being

		Footnote				
Provision of endorsements/ guarantees to	the party in Mainland	China	Y	X	z	z
Ceiling on Provision of Provision of Provision of total amount of endorsements/ endorsements/ endorsements/ guarantees by guarantees to	subsidiary to the party in parent Mainland	company	Z	z	Z	Z
Provision of endorsements/ guarantees by	parent company to	subsidiary	Y	<b>&gt;</b>	>	>
Ceiling on total amount of e endorsements/	guarantees provided	(Note 3)	\$ 9,043,838	9,043,838	9,043,838	9,043,838
Ratio of accumulated endorsement/ guarantee amount to net	asset value of the endorser/	guarantor company	5.57	0.86	1.55	0.33
Amount of endorsements/	guarantees secured with	collateral	\$	•	ı	ı
	Actual amount	drawn down	2,518,320 \$ 953,164	206,640	175,658	•
Outstanding endorsement/ guarantee	amount at December 31,	2019	\$ 2,518,320	389,740	006'669	149,900
Maximum outstanding endorsement/ guarantee	amount as of December 31,	2019	4,551,550	663,600	706,950	158,000
Limit on dorsements/	guarantees provided for a	single party	\$ 4,521,919 \$ 4,551	4,521,919	4,521,919	4,521,919
Relationship with the en	endorser/ guarantor	(Note 2)	3	8	æ	ю
		Company name (Note 2)	Episky Corp.(Xiamen) Ltd.	Jiangsu Canyang Optoelectronics Ltd	Unikorn Semiconductor Corporation	Yen-Rich Technology Corporation.
	Endorser/	guarantor	Epistar Corporation	Epistar Corporation Jiangsu Canyang Optoelectronics Ltd	Unikorn Epistar Corporation Semiconductor Corporation	Yen-Rich Epistar Corporation Technology Corporation
	Number (Note	1)	0	0	0	0

Note 1: The numbers filled in for the endorsements/guarantees provided by the Company or subsidiaries are as follows:

(1) The Company is '0'.

(2) The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between the endorser/guarantor and the party being endorsed/guaranteed is classified into the following six categories; fill in the number of category each case belongs to:

Having business relationship.
 The endorser/guarantor parent company owns directly more than 50% voting shares of the endorsed/guaranteed company.
 The endorser/guarantor parent company and its subsidiaries jointly own more than 50% voting shares of the endorser/guarantor subsidiary.
 The endorser/guaranteed parent company directly owns more than 50% voting shares of the endorser/guarantor subsidiary.
 Mutual guarantee of the trade as required by the construction contract.
 Mutual guarantee of the trade as required by the construction contract.
 Due to joint venture, each shareholder provides endorsements/guarantees to the endorsed/guarantees is 20% of the Company's net assets, and the limit on endorsements/guarantees to a single party is 10% of its net

Expressed in thousands of NTD (Except as otherwise indicated) EPISTAR CORPORATION
Holding of marketable securities at the end of the period (not including subsidiaries, associates and joint ventures)
December 31, 2019

Table 3

Relationship with the
securities issuer
None

				As	As of December 31, 2019	610		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Epistar Corporation	XENIO CORPORATION (stock)	None	Non-current financial assets at fair value through profit or loss	8,7%,7		9	· ·	
Epistar Corporation	Edison Opto Corp. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	9,424,000	124,868	7.54	\$ 124,868	
Epistar Corporation	Phecda Technology Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	000'0009	•	2.11	1	
Epistar Corporation	Elit Fine Ceramics Co., Ltd. (Stock)	None	Non-current financial assets at fair value through profit or loss	2,200,000	•	4.68	1	
Epistar Corporation	Nanocrystal Technology Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	000'000'9		11.11	1	
Epistar Corporation	PlayNitride Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	4,568,669	210,461	12.74	210,461	
Epistar Corporation	OSTENDO TECHNOLOGIES,INC. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	67,500	•	4.50	•	
Epistar Corporation	Global Communication semiconductors LLC (Stock)	None	Current financial assets at fair value through profit or loss	3,627,000	249,900	3.99	249,900	
Epistar JV Holding (BVI) Co.,Ltd.	Everlight electronic(Fujian) Co.,Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash USD2,500,000	44,223	10.00	44,223	
Epistar JV Holding (BVI) Co.,Ltd.	KAISTAR Lighting (Xiamen) Co.,Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash USD48,000,000	1,428,696	17.65	1,428,696	

				V.	As of December 31, 2019	910		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Epistar JV Holding (BVI) Co.,Ltd.	Global Communication semiconductors(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	2,750,000 \$		3.03	\$ 151,039	
Episky Corp.(Xiamen) Ltd.	China Firstar Optoelectronic Materials Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	Cash RMB7,500,000	22,320	15.00	Unlisted company, no comparable market price available	
Episky Corp.(Xiamen) Ltd.	APT Electronics Co., Ltd.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	4,678,240	50,317	1.14	Unlisted company, no comparable market price available	
Episky Corp.(Xiamen) Ltd.	China Crystal Technologies Co.,Ltd.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	8,064,516	29,070	4.08	Unlisted company, no comparable market price available	
Lighting Investment Corp.	Advanced Photoelectronic Technology Limited (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	562,018	113,543	5.14	113,543	
Lighting Investment Corp.	Oree Advanced Illumination Solutions, Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	79,407	•	5.00	•	
Lighting Investment Corp.	Lustrous Technology, Ltd. (Stock)	None	Non-current financial assets at fair value through profit or loss	266,892	•	8.99	•	
Lighting Investment Corp.	TERA XTAL TECHNOLOGY CORPORATION (Stock)	None	Non-current financial assets at fair value through profit or loss	795,000	•	0.42	•	
Lighting Investment Corp.	FormoLight Technologies Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	2,038,230	9,728	10.00	9,728	
Lighting Investment Corp.	XENIO CORPORATION (Stock)	None	Non-current financial assets at fair value through profit or loss	16,462	1	0.13	•	

				As	As of December 31, 2019	19		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Lighting Investment Corp.	Jojint Power eXponent, Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,250,000 \$	5,000		\$ 5,000	
Lighting Investment Corp.	Edison Opto Corp. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	10,705,000	141,841	8.56	141,841	
Lighting Investment Corp.	Rigidtech Microelectronics Cops. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,532,500	9,886	2.14	5,686	
Lighting Investment Corp.	Le Dimond Opto Corporation (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	1,100,000	5,643	16.92	5,643	
Lighting Investment Corp.	LEDLITEK Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	000'05	62,498	6.20	62,498	
Lighting Investment Corp.	De-an Venture Capoital Co., Ltd. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	2,000,000	20,127	10.77	20,127	
Lighting Investment Corp.	iReach Corporation. (Stock)	Investee company accounted for under the equity method of the Company	Non-current investments in equity instruments at fair value through other comprehensive income	150,000	759	1.67	759	
Lighting Investment Corp.	Tekcore Co., Ltd. (Stock)	Investee company accounted for under the equity method of the Company	Current financial assets at fair value through profit or loss	2,616,932	12,928	2.72	12,928	
Lighting Investment Corp.	Edison Opto Corp. (Stock)	None	Current financial assets at fair value through profit or loss	5,851,182	77,528	4.68	77,528	
Lighting Investment Corp.	Epistar Corporation (Stock)	Parent company	Current financial assets at fair value through profit or loss	2,564,755	82,970	0.24	82,970	Note

				V	As of December 31, 2019	610		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Lighting Investment Corp.	Rigidtech Microelectronics Corp. (Stock)	None	Current financial assets at fair value through profit or loss	8 87,71	99	0.02	99 \$	
Lighting Investment Corp.	Global Communication semiconductors LLC (Stock)	None	Current financial assets at fair value through profit or loss	2,748,000	189,337	3.03	189,337	
Lighting Investment Corp.	Taishin 1699 Money Market Fund (Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	2,588,671	35,165	N/A	35,165	
Lighting Investment Ltd.	LEDLITEK Co.,LTD. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	41,500	51,873	5.15	51,873	
Lighting Investment Ltd.	Verticle Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	582,983	•	3.00	1	
Lighting Investment Ltd.	Achrolux Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	987,500	•	6.91	•	
Lighting Investment Ltd.	PlayNitride Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	778,541	35,864	2.17	35,864	
Lighting Investment Ltd.	Advanced Photoelectronic Technology Limited.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	200,000	40,405	1.83	40,405	
Full Star Enterprises Limited	Ufeco Technology Inc. (Stock)	None	Non-current financial assets at fair value through profit or loss	Cash USD250,000	,	10.00	•	

				As	As of December 31, 2019	119		
Securities held by	Marketable securities	Relationship with the securities issuer	General ledger account	Number of shares	Book value	Ownership (%)	Fair value	Footnote
Full Star Enterprises Limited	PlayNitride Inc. (Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	\$ 000,000	27,640	1.67	\$ 27,640	
Full Star Enterprises Limited	Global Communication Semiconductors LLC.(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	2,100,000	115,339	2.31	115,339	
HUGA Holding (SAMOA) Ltd.	China Crystal Technologies Co.,Ltd.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	17,741,935	67,526	8.97	67,526	
HUGA Holding (SAMOA) Ltd.	OEPIC SEMICONDUCTORS,INC.(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	377,358	9,139	7.90	9,139	
Yen-Rich Technology Corporation.	Global Communication seiconductors LLC(Stock)	None	Current financial assets at fair value through profit or loss	4,113,000	283,386	4.53	283,386	
Yen-Rich Opto (Hong Kong) Limited	Yen-Rich Opto (Hong Kong) Limited Global Communication Semiconductors LLC.(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	1,150,000	63,162	1.27	63,162	
AllureLux Corporation	Franklin Templeton Sinoam Money Market Fund(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	680,537	7,063	N/A	7,063	
AllureLux Corporation	Hua Nan Phoenix Money Market Fund(Beneficiary certificates)	None	Current financial assets at fair value through profit or loss	18,454	301	N/A	301	
ProLight Opto Technology Corporation.	ISON Corporation(Stock)	None	Non-current investments in equity instruments at fair value through other comprehensive income	150,000	1,252	2.50	1,252	

Note: Shown as treasury stocks of Epistar Corporation.

EPISTAR CORPORATION

Acquisition or sale of the same security with the accumulated cost exceeding \$300 million or 20% of the Company's paid-in capital

Year ended December 31, 2019

Table 4

Expressed in thousands of NTD (Except as otherwise indicated)

Balance as at January 1, 2019 (Note)	Balance as at (X)	Balance as at	Balance as at	Balance as at	s at Janus (Note)	lary 1, 2019	Addition			Disposal			Balance as at December 31, 2019 (Note)
General Relationship	Relationship			(2001)						menderd			(201)
Marketable ledger with the securities account Counterparty counterparty Number of shares Amount	with the Counterparty counterparty Number of shares	with the counterparty Number of shares	with the counterparty Number of shares	Number of shares	Amon	Ħ	Number of shares	Amount	Number of shares	Selling price	Book value	Gain (loss) on disposal	Number of shares Amount
CR Yuanta Money Financial assets at Marker Fund B fair value through - NA Class(Baneficiary profit or loss certificates)	Financial assets at fair value through - NA profit or loss	- V		9		1	36,500,000	\$ 157,133	36,500,000	\$ 157,685	\$ 157,133	\$ 552	9
CR Yuanta Money Financial assets at Market Fund B fair value through - NA Class(Beneficiary profit or loss certificates)		, VZ	, V Z			1	157,800,000	679,329	157,800,000	681,905	679,329	2,576	
- CTBC Hwa-win Financial assets at Money Market fair value through - NA Fund profit or loss		, AN	V			1	28,567,808	315,000	28,567,808	315,110	315,000	110	
Taishin 1699 Financial assets at NA Money Market fair value through . NA Fund profit or loss	•	. NA	, AA			1	30,666,839	415,000	30,666,839	415,244	415,000	244	•
in Moeney et Fund	•	. NA	. AA			1	38,980,503	578,000	38,980,503	578,448	578,000	448	
Prudential Financial assets at NA NA NA NA Market Fund profit or loss	1	. NA	NA			•	22,803,397	361,000	22,803,397	361,269	361,000	269	
FSITC Taiwan Financial assets at NA - NA Fund profit or loss		. AA	, AN			1	19,923,250	305,000	19,923,250	305,187	305,000	187	
Taishin 1699 Financial assets at Money Market fair value through - NA Fund profit or loss		- AN -	. AN			1	22,911,086	310,000	22,911,086	310,265	310,000	265	
FSITC Taiwan Financial assets at Money Market fair value through - NA Fund profit or loss	,	. NA .	NA	•		i	23,517,813	360,000	23,517,813	360,363	360,000	363	
Yen-Rich Investments Technology accounted for using - Subsidiary Corporation. equity method			Subsidiary			1		918,728	•	•		ı	- 918,728

Note 1: The balance consists gain on valuation of financial assets.

# EPISTAR CORPORATION

Purchases or sales of goods from or to related parties reaching NT\$100 million or 20% of paid-in capital or more

Year ended December 31, 2019

Expressed in thousands of NTD (Except as otherwise indicated)

10	
Table 5	

					Transaction		Differences in	Differences in transaction terms Notes/accounts receivable (payable)	Notes/accounts rece	eivable (payable)	
										Percentage of total	
					Perce	Percentage of				notes/accounts	
		Relationship with the	Purchases		total p	total purchases				receivable	
Purchaser/seller	Counterparty	counterparty	(sales)	A	Amount (sa	(sales) Credit term	Unit price	Credit term	Balance	(payable) Fe	Footnote
Epistar Corporation	Everlight Electronics Co., Ltd and its subsidiaries	Director of the Company	Sales	<b>\$</b>	633,080)	5 150 days after month-end closing	N/A	Normal		•	
Epistar Corporation	LEDAZ Co., Ltd	Investee company accounted for using equity method by the Company's subsidiary	Sales	$\smile$	179,599)	1 90 days after month-end closing	N/A	Normal	71,314	_	
Epistar Corporation	Yen-Rich Technology Corporation.	Subsidiary of the Company	Sales	<u> </u>	230,511)	2 120 days after month-end closing	N/A	Normal	86,508	-	
Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	The Company's indirectly owned subsidiary	Sales	$\overline{}$	184,669)	1 180 days after next month-end closing	N/A	Normal	87,845	_	
Epistar Corporation	Luxlite (Shenzhen) Corporation Limited	The Company's indirectly owned subsidiary	Sales	$\smile$	1,425,371)	11 180 days after next month-end closing	N/A	Normal	775,081	12	
Epistar Corporation	Episky Corp.(Xiamen) Ltd.	The Company's indirectly owned subsidiary	Sales	$\overline{}$	768,584)	6 180 days after next month-end closing	N/A	Normal	335,714	W	
Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	The Company's indirectly owned subsidiary	Sales	<u> </u>	449,614)	4 90 days after month-end closing	N/A	Normal	83,183	_	

		1		Tra	Transaction	Differences in	Differences in transaction terms	Notes/ac	Notes/accounts receivable (payable)	ble (payable)	
									Pe	Percentage of total	
		:			Percentage of				ou	notes/accounts	
Described on 1100	in the constitution of	Relationship with the	Purchases	•	ses			Ē			-
Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	The Company's indirectly owned subsidiary	(sales) Purchases	\$ 378,190	(Sales) Credit ferm 5 30 days after month-end closing	N/A	Normal	(\$	38,419)	(payable) Footnote 2	2
Epistar Corporation	Episky Corp.(Xiamen) Ltd.	The Company's indirectly owned subsidiary	Purchases	287,519	4 60 days after next month-end closing	N/A nd	Normal	$\overline{}$	50,045)	ю	
Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	The Company's indirectly owned subsidiary	Purchases	1,230,596	5 17 150 days after month-end closing	т N/A	Normal	$\overline{}$	497,916)	28	
Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	Note 1	Sales	(196,254)	s) 33 90 days after month-end closing	N/A	Normal		78,196	36	
Yen-Rich Technology Corporation.	Epistar Corporation	Subsidiary of the Company	Purchases	230,511	1 38 120 days after month-end closing	r N/A	Normal	$\overline{}$	86,508)	37	
Jiangsu Canyang Optoelectronics Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales	(378,190)	39 30 days after month-end closing	N/A	Normal		38,419	9	
Jiangsu Canyang Optoelectronics Ltd.	Episky Corp.(Xiamen) Ltd.	Note 1	Sales	(419,324)	.) 43 90 days after month-end closing	N/A	Normal		146,164	22	
Jiangsu Canyang Optoelectronics Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note 1	Sales	(228,902)	23 90 days after month-end closing	N/A	Normal		17,453	ю	
Jiangsu Canyang Optoelectronics Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	184,669	9 18 180 days after month-end closing	π N/A	Normal	$\smile$	87,845)	94	

				Transaction	action	Differences ir	Differences in transaction terms	i	Notes/accounts receivable (payable)	tble (payable)
									ď	Percentage of total
		:			Percentage of				)u	notes/accounts
Purchaser/seller	Counternarty	Relationship with the	Purchases (sales)	Amount	total purchases  (sales)  Credit term	I Init price	Cradit term	ď	Ralance	receivable Footnote
Jiangsu Canyang Optoelectronics Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note 1	Purchases \$		20 90 m	Z .	Normal	\$	76,311)	40
Luxlite (Shenzhen) Corporation Limited	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	1,425,371	44 180 days after next month-end closing	fter N/A h-end	Normal	$\overline{}$	775,081)	47
Luxlite (Shenzhen) Corporation Limited	Episky Corp.(Xiamen) Ltd.	Note I	Purchases	1,806,330	56 120 days after month-end closing	fler N/A	Normal	$\overline{}$	856,519)	52
Episky Corp.(Xiamen) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales (	287,519)	9 60 days after next month-end closing	ter N/A h-end	Normal		50,045	2
Episky Corp.(Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	Note 1	Sales (	1,806,330)	55 120 days after month-end closing	fler N/A	Normal		856,519	39
Episky Corp.(Xiamen) Ltd.	Jiangsu Canyang Optoeleetronics Ltd.	The Company's indirectly owned subsidiary	Purchases	419,324	15 90 days after month-end closing	ter N/A	Normal	$\overline{}$	146,164)	Ξ
Episky Corp.(Xiamen) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases	768,584	28 180 days after next month-end closing	fter N/A h-end	Normal	$\overline{}$	335,714)	24
Episky Corp.(Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Note I	Purchases	1,081,074	40 90 days after month-end closing	ter N/A	Normal	$\overline{}$	943,635)	89
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 1	Sales (	201,471)	9 90 days after month-end closing	ler N/A	Normal		76,311	4

		.1			Transaction	u	Differences i	Differences in transaction terms Notes/accounts receivable (payable)	Notes/acc	ounts receivable	e (payable)	
										Perc	Percentage of total	
					Pe	Percentage of				note	notes/accounts	
		Relationship with the	Purchases		tot	total purchases				ī	receivable	
Purchaser/seller	Counterparty	counterparty	(sales)	An	Amount	(sales) Credit term	Unit price	Credit term	Balance		(payable) Fo	Footnote
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Sales	(\$	1,230,596)	53 150 days after month-end closing	N/A	Normal	\$ 45	497,916	24	
Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	Note 1	Sales	· ·	1,081,074)	46 90 days after month-end closing	N/A	Normal	76	943,635	46	
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 1	Purchases		228,902	14 90 days after month-end closing	N/A	Normal	_	17,453)	ю	
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	Purchases		449,614	27 90 days after month-end closing	N/A	Normal	~ `	83,183)	13	
ProLight Opto Technology Corporation	Shanghai Welight Electronic Co., LTD.	Note 1	Sales	$\smile$	170,826)	38 120 days after month-end closing	N/A	Normal	1.	167,605	72	
Shanghai Welight Electronic C LTD.	Shanghai Welight Electronic Co., ProLight Opto Technology LTD.	Note 1	Purchases		170,826	99 120 days after month-end closing	. N/A	Normal	)	167,605)	100	

Note 1: Investee company accounted for under the equity method directly and indirectly.

EPISTAR CORPORATION

Receivables from related parties reaching NT\$100 million or 20% of paid-in capital or more

December 31, 2019

Table 6			December 31, 2019	, 2019					Expressed in the (Except as other	Expressed in thousands of NTD (Except as otherwise indicated)
			Balance as at December 31, 2019	r 31, 2019			Overdue receivables	bles	•	
	+	Relationship with the			E			Action	Amount collected subsequent to the	Allowance for
Creditor	Counterparty	i	Accounts receivable	- 1		Turnover rate	Amount	taken	balance sneet date	doubtiui debts
Epistar Corporation	Yen-Rich Technology Corporation.	Subsidiary of the Company	\$ 86,508 \$	37,537 \$	124,045	3.72	1,958	1	22,144	·
Epistar Corporation	Jiangsu Canyang Optoelectronics Ltd.	The Company's indirectly owned subsidiary	87,845	231,137	318,982	0.56	131,255		15,635	•
Epistar Corporation	Luxlite (Shenzhen) Corporation Limited	The Company's indirectly owned subsidiary	775,081	096	776,041	2.15	14	1	122,207	
Epistar Corporation	Episky Corp.(Xiamen) Ltd.	The Company's indirectly owned subsidiary	335,714	34,368	370,082	1.13	25,049	1	55,035	
Epistar Corporation	Epicrystal Corporation (Changzhou) Ltd.	The Company's indirectly owned subsidiary	83,183	23,060	106,243	4.10	350	1	24,831	
Epistar Corporation	Unikorn Semiconductor Corporation	Subsidiary of the Company	6,116	106,577	112,693	1.08	7,351	1	8,821	•
Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	Note 2	78,196	1	78,196	5.02	23,170	1	40,330	1
Episky Corp.(Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	Note 2	856,519	•	856,519	2.03	267,865	ı	43,050	
Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Note 2	76,311	174,109	250,420	0.65	312	1	573	•
Epicrystal Corporation (Changzhou) Ltd.	Epistar Corporation	The Company's indirectly owned subsidiary	497,916	909	498,522	3.84	92	1	108,839	•

		D.1241	Balance as at December 31, 2019	mber 31, 2019			Overdue receivables	səles	A A	
		relationship with the						Action	subsequent to the	Allowance for
Creditor	Counterparty	counterparty		Accounts receivable Other receivable Total	Total	Turnover rate Amount	Amount	taken	balance sheet date	doubtful debts
Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	Note 2		\$ 1,191 \$ 944,826	944,826	1.86	619,838	ı	1	€
ght Opto Technology Corporation	ProLight Opto Technology Corporation Shanghai Welight Electronic Co., LTD.	Note 2	167,605		167,605	2.04	•		37,159	

Note 1: The Company endeavored to purpose the overdue amount. Epistar has receive \$1,519 \cdot \$1,647 \cdot \$14 and \$244 from Yen-Rich \cdot Jiangsu Canyan \cdot Luxlite and Epicrystal, respectively; Ven-Rich has receive \$23,170 from LEDAZ respective; Episky(xiamen) has receive \$43,050 from Luxlite respectively.

Note 2: Investee company accounted for under the equity method directly and indirectly.

# EPISTAR CORPORATION

Significant inter-company transactions during the reporting periods

Year ended December 31, 2019

Expressed in thousands of NTD operating revenues or total 1.44 1.16 (Except as otherwise indicated) consolidated total assets (Note 3) Percentage of Conducted in the ordinary course of business with terms similar to those with third course of business with terms course of business with terms 184,669 Conducted in the ordinary Conducted in the ordinary similar to those with third Transaction terms parties parties 230,511 Amount 8 General ledger account Sales Sales Relationship (Note 2) Yen-Rich Technology Corporation. Counterparty LEDAZ Co., Ltd Company name Epistar Corporation Epistar Corporation

> Number (Note 1)

Table 7

0

0

	8.93	4.82	2.82	2.37	1.80
course or business with terms similar to those with third parties	1,425,371 Conducted in the ordinary course of business with terms similar to those with third parties	768,584 Conducted in the ordinary course of business with terms similar to those with third parties	449,614 Conducted in the ordinary course of business with terms similar to those with third parties	378,190 Conducted in the ordinary course of business with terms similar to those with third parties	287,519 Conducted in the ordinary course of business with terms similar to those with third parties
Sales	Sales	Sales	Sales	Cost of goods sold	Cost of goods sold
1	-	-	-	-	-
Jiangsu Canyang Optoelectronics Ltd.	Luxlite (Shenzhen) Corporation Limited	Episky Corp.(Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Episky Corp.(Xiamen) Ltd.
Epistar Corporation	Epistar Corporation	Epistar Corporation	Epistar Corporation	Epistar Corporation	Epistar Corporation
0	0	0	0	0	0

consolidated total	operating revenues or total	assets (Note 3)	7.71	0.15	1.32	0.57	0.25	0.85	0.39	0.18	11.32
03	operati	Transaction terms a	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties	Based on contract terms	Conducted in the ordinary course of business with terms similar to those with third parties	Conducted in the ordinary course of business with terms similar to those with third parties
		Amount	1,230,596	87,845	775,081	335,714	148,416	497,916	231,137	106,577	1,806,330
		General ledger account	S Cost of goods sold	Accounts receivable	Accounts receivable	Accounts receivable	Accounts payable	Accounts payable	Other receivable	Other receivable	Sales
	Relationship	(Note 2)	-	-	-	-	-	-	-	т	æ
		Counterparty	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Luxlite (Shenzhen) Corporation Limited	Episky Corp. (Xiamen) Ltd.	LEDAZ Co., Ltd	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	Unikorn Semiconductor Corporation	Luxlite (Shenzhen) Corporation Limited
		Company name	Epistar Corporation	Epistar Corporation	Epistar Corporation	Episky Com.(Xiamen) Ltd.					
	Number	(Note 1)	0	0	0	0	0	0	0	0	-

							rercentage of
Number			Relationship				operating revenues or total
(Note 1)	Company name	Counterparty	(Note 2)	General ledger account	Amount	Transaction terms	assets (Note 3)
-	Episky Com (Xiamen) Ltd.	Luxlite (Shenzhen) Corporation Limited	8	S Accounts receivable	856,519	Conducted in the ordinary course of business with terms similar to those with third parties	1.46
2	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	e	Sales	201,471	Conducted in the ordinary course of business with terms similar to those with third parties	1.26
2	Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	٣	Sales	1,081,074	Conducted in the ordinary course of business with terms similar to those with third parties	6.77
6	Epicrystal Corporation (Changzhou) Ltd.	Episky Corp.(Xiamen) Ltd.	e	Accounts receivable	943,635	Conducted in the ordinary course of business with terms similar to those with third parties	1.61
7	Epicrystal Corporation (Changzhou) Ltd.	Jiangsu Canyang Optoelectronics Ltd.	e	Other receivable	174,109	Based on contract terms	0.30
ю	Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	es.	Sales	196,254	Conducted in the ordinary course of business with terms similar to those with third parties	1.23
8	Yen-Rich Technology Corporation.	LEDAZ Co., Ltd	ю	Accounts receivable	78,196	Conducted in the ordinary course of business with terms similar to those with third parties	0.13
4	Jiangsu Canyang Optoelectronics Ltd.	Episky Corp.(Xiamen) Ltd.	e	Sales	419,324	Conducted in the ordinary course of business with terms similar to those with third parties	2.63
4	Jiangsu Canyang Optoelectronics Ltd.	Epicrystal Corporation (Changzhou) Ltd.	m	Sales	228,902	Conducted in the ordinary course of business with terms similar to those with third parties	1.43

otal	s or total	3)	0.03	0.00	1.07	0.29
consolidated total	operating revenues or total	assets (Note 3)				
ŏ	operat	Transaction terms	17,453 Conducted in the ordinary course of business with terms similar to those with third parties	416 Conducted in the ordinary course of business with terms similar to those with third parties	170,826 Conducted in the ordinary course of business with terms similar to those with third parties	167,605 Conducted in the ordinary course of business with terms similar to those with third parties
		Amount	17,453	416 °C	170,826	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
			<b>⇔</b>			
		General ledger account	Accounts receivable	Processing Fees	Sales	Accounts receivable
	Relationship	(Note 2)	т	ε	٤	ю
		Counterparty	Epicrystal Corporation (Changzhou) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	Shanghai Weilight Electomic Co., LTD.	Shanghai Weilight Electomic Co., LTD.
		Company name	Jiangsu Canyang Optoelectronics Ltd.	Jiangsu Canyang Optoelectronics Ltd.	ProLight Opto Technology Corporation	ProLight Opto Technology Corporation
	Number	(Note 1)	4	4	vs	vo

Percentage of

Note 1: Parent company is '0'. The subsidiaries are numbered in order starting from '1'.

Note 2: Relationship between transaction company and counterparty is classified into the following three categories; fill in the number of category each case belongs to (If transactions between parent company and subsidiaries or between subsidiaries refer to the same transaction, it is not required to disclose twice.

For example, if the parent company has already disclosed its transaction with a subsidiary, then the subsidiary is not required to disclose the transaction; for transactions between two subsidiaries, if one of the subsidiaries has disclosed the transaction, then the other is not required to disclose the transaction.):

(1) Parent company to subsidiary.

(2) Subsidiary to parent company. (3) Subsidiary to subsidiary.

Note 3: Regarding percentage of transaction amount to consolidated total operating revenues or total assets, it is computed based on period-end balance of transaction to consolidated total assets for balance sheet accounts and based on accumulated transaction amount for the period to consolidated total

Note 4: Disclosure of the transactions over 100 million New Taiwan dollars only and operating revenues for income statement accounts.

the related party transactions for counterparty are not disclosed.

EPISTAR CORPORATION Information on investees Year ended December 31, 2019 Expressed in thousands of NTD (Except as otherwise indicated)

II .

Table 8

10,261 Note 1 766,532) 53,400) Net profit (loss) recognised by the of the investee Company for the 28,223) 140,662 40,012 48,974 \$ 11,469 \$ 11,469 7,599 December 31, year ended income (loss) Investment 2019 666,350) ( 90,478) ( 28,223) ( ended December 19,736 7,599 135,696 28,067 31, 2019 9,030,452 ( 12,919 ( 1,123,339 ( 2,081,416 450,672 257,907 Book value Shares held as at December 31, 2019 100.00 Number of shares Ownership 100.00 100.00 100.00 59.02 100.00 40.80 0.00 (%) Cash 48,278 USD8,660,000 7,000,000 13,886,743 251,478,518 60,000,000 18,806,694 (Note) 275,117 70,000 December 31, December 31, 82,348 14,960,129 2,161,814 840,381 166,785 600,000 Balance as at Balance as at 2018 Initial investment amount \$ 000,07 2019 14,960,129 212,667 2,161,814 840,381 166,785 600,000 Manufacturing and sales of electronic components Packaging, module design, manafacturing and sales of application, manafacturing Investment holding; sales of electronic components Professional investment Professional investment Professional investment Sales of LED lighting Main business LED light and sales facilities LED British Virgin Islands Location Hong Kong Hong Kong Hong Kong Taiwan Taiwan Taiwan Nan Ya Photonics Incorporation Taiwan Full Star Enterprises Limited Ecoled Venture Co., Limited GaN Ventures Co., Limited Epistar JV Holding (BVI) Co.,Ltd. Lighting Investment Corp. Yen-Rich Technology Corporation. iReach Corporation Investor Epistar Corporation 
				Initial investment amount	t amount	Shares held a	Shares held as at December 31, 2019	1. 2019		Footnote	ote
									Net profit (loss) recofthe investee C	Investment income (loss) recognised by the Company for the	
Investor	Investee	Location	Main business activities	Balance as at December 31, I	Balance as at December 31,	Number of shares	Ownership	Book value	_	year ended December 31, 2019	
Epistar Corporation	Tekcore Co., Ltd.	Taiwan	Manufacturing and sales of LED chips and LED lighting facilities	1,169,412 \$	1,169,412	20,247,828	21.05 \$	88	(\$ 120,081) (\$	25,279)	
Epistar Corporation	Unikorn Semiconductor Corporation	Taiwan	Development, manufacturing and sales of LED chips and LED lighting facilities	1,000,000	1,000,000	100,000,000	85.91	571,113 (	4	377,906)	
Epistar Corporation	ProLight Opto Technology Corporation	Taiwan	Packaging, manufacturing and sales of LED	101,500	130,375	5,800,000	8.52	88,278	55,888) (	4,849)	
Epistar Corporation	SH Optotech Co., Ltd.	Taiwan	Sales of LED chips and LED lighting facilities	31,792	31,792	3,179,176	49.00	3,192	1,076	527	
Epistar Corporation	TE Opto Corporation	Taiwan	Sales of LED chips and LED lighting facilities	9,200	9,200	920,000	40.00	45,524	13,075	5,230	
Epistar Corporation	GaN Force Corporation	Taiwan	Design, manufacturing and sales of LED	63,800	1	1,063,000	64.31	56,283 (	11,533) (	7,417)	
Crystaluxx SARL	LEDOLUX Sp.Zo.O.	Poland	Assembling and sales of LED bulbs	133,455	133,455	156,994	00.09	14,051	798) (	479)	
Epistar JV Holding (BVI) Co.,Ltd.	Country Lighting (BVI) Co.,Ltd.	British Virgin Islands	Professional investment	89,843	89,843	3,060,000	36.43	91,723 (	) (59)	24)	
Epistar JV Holding (BVI) Co.,Ltd.	Crystal Light Enterprise Group Ltd.	British Virgin Islands	Professional investment	6,754	6,754	Cash USD200,000	100.00	26,093 (	311) (	311)	

				Initial investment amount	nt amount	Shares held as at December 31, 2019	at December	31, 2019		ц	Footnote
					Balance as at					Investment income (loss) recognised by the Company for the year ended	
Investor	Investee	Location	Main business activities	December 31, 2019	December 31, 2018	Number of shares (Note)	Ownership (%)	Book value	ended December 31, 2019	December 31, 2019	
Epistar JV Holding (BVI) Co.,Ltd.	HUGA Holding (SAMOA) Limited	SAMOA	Professional investment	\$ 334,967 \$	331,951	12,551,035	100.00	79,880	\$ 51,872 \$	5 51,872	
Epistar JV Holding (BVI) Co.,Ltd.	LiteStar JV Holding (BVI) Co.,Ltd.	British Virgin Islands	Professional investment	3,408,835	3,408,835	10,882	82.41	3,341,085 (	( 119,528) (	98,503)	
Epistar JV Holding (BVI) Co.,Ltd.	United LED Corporation (Hong Kong) Limited	Hong Kong	Professional investment	2,029,760	2,029,760	67,000,165	74.86	342,534 (	( 165,085) (	123,583)	
Epistar JV Holding (BVI) Co.,Ltd.	Episky (Hong Kong) Ltd.	Hong Kong	Professional investment	2,124,096	2,124,096	Cash USD68,000,000	100.00	2,083,512 (	( 284,375) (	284,375)	
Epistar JV Holding (BVI) Co.,Ltd.	Can Yang Investments Limited	Hong Kong	Professional investment	4,291,894	4,291,894	Cash USD141,272,700	80.10	1,415,308	( 275,527) (	168,451)	
GaN Ventures Co., Limited	GV Semiconductor Inc.	USA	R&D and sales of electronic components	177,602	91,225	1	0.00		( 76,243) (	76,243)	
GaN Force Corporation	GV Semiconductor Inc.	USA	R&D and sales of electronic components	44,466	1	Cash USD6,680,000	100.00	32,668 (	(11,449) (	11,449)	
HUGA Holding (SAMOA) Limited	Ecoled Venture Co.,Limited	Hong Kong	Sales of LED lighting facilities	•	24,655	•	0.00	•	19,736	9,475 Note 1	Vote 1
Lighting Investment Ltd.	GaN Ventures Co.,Limited	Hong Kong	Investment holding; sales of electronic components	64	64	1,500,000	4.92	1,077 (	( 90,478) (	4,452)	

			•	Initial investment amount	nt amount	Shares held a	Shares held as at December 31, 2019	31, 2019			Footnote
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares (Note)	Ownership (%)	Book value	Net profit (loss) re of the investee C for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	
			€	48,166 \$	48,166	88,460	28.13 \$	34,117	(\$ 46,707) (\$	27,071)	
Lighting Investment Ltd.	LEDAZ CO., Ltd.	Korea	Engineering service of LED								
	The state Office at the Control			12,806	12,806	429,000	30.00	12,705 (	1,232) (	397)	
Lighting Investment Ltd.	interngnt Orfoteen (HK) Co.,Limited	Hong Kong	rackaging, manuracturing and sales of LED								
				2,556	2,556	82,850	100.00	2,080 (	32) (	32)	
Lighting Investment Ltd.	Epistar (Hong Kong) Limited	Hong Kong	Professional investment								
				91,286	91,286	2,850,000	75.00	321,159	120,918	689,06	
Lighting Investment Ltd.	Luxhte (HK) Corporation Limited	Hong Kong	Professional investment								
				4,403,034	4,403,034	146,600,000	100.00	4,053,019 (	(119,460) (	119,460)	
LiteStar JV Holding (BVI) Co.,Ltd.	Epicrystal (Hong Kong) Co. Ltd. Hong Kong	. Hong Kong	Professional investment								
				131,659	131,659	33,200	100.00	12,734 (	1,844) (	1,844)	
Lighting Investment Corp.	Crystaluxx SARL	Luxembourg	Professional investment								
				23,993	23,993	44,065	14.01	21,228 (	(46,707) (	13,447)	
Lighting Investment Corp.	LEDAZ CO., Ltd.	Korea	Engineering service of LED								
				152,701	152,701	45,642	100.00	592,768	52,468	52,468	
Lighting Investment Corp.	Lighting Investment Ltd.	British Virgin Islands	Professional investment								
				250,731	250,731	8,010,000	100.00	295,781	7,113	7,113	
Lighting Investment Corp.	Yen-Rich Opto (Hong Kong) Limited	Hong Kong	Sales of LED light components								

				Initial investment amount	nt amount	Shares held a	Shares held as at December 31, 2019	1, 2019			Footnote
Investor	Investee	Location	Main business activities	Balance as at December 31, 2019	Balance as at December 31, 2018	Number of shares (Note)	Ownership	Book value	Net profit (loss) of the investee for the year ended December 31, 2019	Investment income (loss) recognised by the Company for the year ended December 31, 2019	
			\$	50		1,135,430	2.46 \$	35,862	\$ 98,085	\$ 2,416	
Lighting Investment Corp.	Nan Ya Photonics Incorporation Taiwan	Taiwan	LED light application								
Lighting Investment Corp.	ProLight Opto Technology Corporation	Taiwan	Packaging and sales of LED chips and LED lighting facilities	318,929	214,329	27,539,234	40.46	420,117 (	( 25,888) (	(22,023)	
Lighting Investment Corp.	Can Yang Investments Limited	Hong Kong	Professional investment	72,436	72,436	5,218,605	6.87	121,388 (	( 275,527) (	(18,929)	
Lighting Investment Corp.	allureLux Corporation	Taiwan	Development and design services of LED lamps	30,000	30,000	3,000,000	100.00	7,638 (	( 4,423) (	(4,423)	
Yen-Rich Technology Corporation.	ProLight Opto Technology Corporation	Taiwan	Packaging, manufacturing and sales of LED	29,372		2,462,000	3.62	37,537 (	) (982) (	(1,868)	
Epistar (Hong Kong) Limited	ES-LEDRU LLC.	Russia	Sales of LED products	2,474	2,474	4,036,069	49.00	2,231	1	•	
Episky Corp.(Xiamen) Ltd.	Epicrystal Corporation (Changzhou) Ltd.	China-Changzho	China-Changzhou Assembling and sales of LED bulbs	147,472	147,472	Cash USD5,200,000	3.31	143,666 (	( 127,901) (	(4,234)	
Episky Corp.(Xiamen) Ltd.	Manufacturing and s Episky Corporation (Changzhou) China-Changzhou LED chips and LED Ltd.	China-Changzho	Manufacturing and sales of u LED chips and LED lighting facilities	•	99,056	•	0.00	1	) (2337) (		9,237) Note 1
Episky Corp.(Xiamen) Ltd.	Development and sales of EPIRICH (Guangzhou)Co.,Ltd China-Guangzhou LED products	China-Guangzho	Development and sales of LED products		40,382	•	0.00		)(69)		69) Note 3

				Initial investment amount	ent amount	Shares held a	Shares held as at December 31, 2019	, 2019		Foot	Footnote
										Investment	
										income (loss)	
								Ż	et profit (loss) re	Net profit (loss) recognised by the	
								0	of the investee Company for the	Company for the	
				Balance as at	Balance as at Balance as at				for the year	year ended	
			Main business	December 31,	December 31, December 31,	Number of shares Ownership	Ownership	eu	ended December December 31,	December 31,	
Investor	Investee	Location	activities	2019	2018	(Note)	(%)	Book value	31, 2019	2019	
				\$ -	3 16,795	•	\$ 00.0	\$) -	2,977) (\$	\$ 2,977) Note 2	te 2
allureLux Corporation	AllureLux Inc.	USA	Design and sales of LED lighting								
				4,402	4,402	150,000	100.00	1,211)	2,364	4,443	
ProLight Opto Technology Corporation	Prolight Opto Holding Corporation	Seychelles	Protessional investment								
				4,403	4,403	150,000	100.00	1,184)	2,364	4,443	
Prolight Opto Holding Corporation	ProLight Opto Technology Corporation	Seychelles	Protessional investment								

Note 1:The liquidation was completed on December , 2019 as the company will not continue its operation. Note 2: The liquidation was completed on February , 2019 as the company will not continue its operation. Note 3: The liquidation was completed on April , 2019 as the company will not continue its operation.

EPISTAR CORPORATION

Information on investments in Mainland China

Year ended December 31, 2019

$_{ m GLN}_{ m fc}$	dicated)							Footnote	6	7(3)	2(3)		2(1)		2(1)	
Expressed in thousands of NTD	(Except as otherwise indicated)	Accumulated	amount	of investment	income	remitted back to	Taiwan as of	December 31, 2019 F		·	•		•		57,861	
Expr	(Exc				Book value of		Mainland China	as of December 31, 2019	202 600 6	\$ 2,083,505	341,252		3,340,092		238,126	
		Investment income (loss)	recognised by	the Company	for the year	ended	December 31,	2019 (Note 2)	,	284,408)	123,882)		98,426)		94,046	
					Ownership			(direct or indirect)	1	£) 00:001	74.86 (		76.95 (		75.00	
						Net income of	investee as of	December 31, 2019	1007 700	284,408)	165,485)		127,901)		125,395	
			Accumulated	amount of	remittance from			as of December D 31, 2019		2,038,640 (\$	1,911,225 (		3,585,608 (		22,511	
		nitted from an to	l China/	nitted back		Ú	Ģ	back to Taiwan			ı		•		1	
		Amount remitted from Taiwan to	Mainland China/	Amount remitted back	to Taiwan for the year	ended December 31, 2019	Remitted to	Mainland China		·	1		•		ı	
			Accumulated	amount of	remittance from	Taiwan to	Mainland China	as of January 1, 2019		2,038,640	1,911,225		3,585,608		22,511	
						,	Investment	method (Note 1)	,	7		64		6		7
								Paid-in canital		\$ 2,038,640	2,518,320		4,706,860		89,940	
								Main business activities	İ	Manufacturing and sales of LED chips and LED lighting facilities	Manufacturing and	sales of LED chips and LED lighting facilities	Manufacturing and	sales of LED chips and LED lighting facilities		Sales of LED lighting facilities
Table 9								Investee in Mainland China		Episky Corporation (Xiamen) Ltd.		United LED Shandong Corporation		Epicrystal Corporation (Changzhou) Ltd.		Luxlite (Shenzhen) Corporation Limited

					Amount remitted from	nitted from				Investment			
					Taiwan to	an to				income (loss)		Accumulated	
				Accumulated	Mainland China/	1 China/	Accumulated			recognised by		amount	
				amount of	Amount remitted back	nitted back	amount of			the Company		of investment	
				remittance from	to Taiwan for the year	or the year	remittance from		Ownership	for the year	Book value of	income	
				Taiwan to	ended December 31, 2019	ber 31, 2019	Taiwan to	Net income of	held by the	ended	investments in	remitted back to	•
			Investment	Mainland China	Remitted to	Remitted	Mainland China	investee as of	Company	December 31,	Mainland China	Taiwan as of	
Investee in Mainland	Main business		method	as of January 1,	Mainland	back	as of December	December 31,	(direct or	2019	as of December	December 31,	
China	activities	Paid-in capital	(Note 1)	2019	China	to Taiwan	31, 2019	2019	indirect)	(Note 2)	31, 2019	2019	Footnote
KAISTAR Lighting (Xiamen) Co., Ltd.	Manufacturing and sales of LED chips and LED lighting facilities	\$ 8,154,525	2	\$ 1,530,779	· •	· ∽	\$ 1,530,779	S	18.77	€	\$ 1,428,696	<i>s</i>	2(3)
Everlight Electronics (Fujian) Co., Ltd	Manufacturing and sales of LED backlight and related parts	749,500	2	74,950		1	74,950	•	10.00	1	44,223		2(3)
APT Electronics Co., Ltd.	Developing, manufacture and sale of LED extension and chip, module and light instrument	1,771,488	m	218,751	36,898	1	255,649	•	11.81	,	•		- 2(3)
China Crystal Technologies Co,Ltd.	Developing, manufacture and sale of gallium arsenide unit crystal and chips	851,380	2	100,632	ı	1	100,632	ı	8.97	( 9,582)	67,526		2(3)
Ufeco Technology Inc.	Developing and manufacturing LED application and sales of selfmoduct	\$ 74,950	2	\$ 7,808	· •	· •	\$ 7,808	· •	10.00	· •	· •	S	2(3)

ed nit nit signed signe	Footnote	- 2(3)	- 2(3)	- 2(3)	- 2(2)
=	2019				\$
Book value of investments in Mainland China	as of December 31, 2019		26,093	1,536,695	(\$ 1,157)
Investment income (loss) recognised by the Company for the year ended	2019 (Note 2)	•	311)	239,626)	\$ 4,443 (\$
6 (1)	(anrect or indirect)	0.00	100.00	) 16.98	52.60
Net income of investee as of	December 31, 2019	•	311)	275,384)	\$ 2,633
Accumulated amount of remittance from Taiwan to Mainland China	as of December 31, 2019	219,457	50,463 (	2,387,089 (	4,497
1 c r r d	back a to Taiwan		,	•	\$ •
ļ.	Mainland China	•	•	ı	
Accumulated amount of remittance from Taiwan to Mainland China	as or January 1, 2019	219,457	50,463	2,387,089	\$ 4,497
Investment	(Note 1)	7	2	2	,
	Paid-in capital	430,500	966'5	5,756,160	\$ 4,497
	activities	Research and development, manufacturing and sale of LED packaging; research and development, manufacturing and sale of backlight module, lighting modules and accessories	Manufacturing and sales of LED chips and LED lighting facilities	Manufacturing and sales of LED chips and LED lighting facilities	\$ Wholesale and export and import
	investee in Mainland China	Very Optoelectronics (HUI ZHOU) Co., Ltd.	Ningbo Formosa Epitaxy Incorporation	Jiangsu Canyang Optoelectronics Ltd.	Shanghai Welight

Coming on	investments in	Mainland China	imposed by the	Investment	Commission of	MOEA	\$ 28,317,215
IIIVESUIICIII	amount approved	by the Investment Mainland China	Commission of imposed by the	Mainland China as the Ministry of	of December 31, Economic Affairs Commission of	(MOEA)	12,241,483 \$ 13,277,209 \$ 28,317,215
				as	1, E		33 8
Accumulated	amount of	emittance from	Taiwan to	nland China	December 3	2019	12,241,48
ζ		ren		Mai	of]		S
						Company name	Epistar Corporation

Note 1: The investments are classified in three types; they are numbered as follows:

1. Direct investment in Mainland China companies;

2. Through investing in an existing company in the third area, which then invested in the investee in Mainland China.

3. Other ways.

Note 2: Investment income or loss in this period:

The bases for recognition of investment income or loss are classified into four types; they are numbered as follows:

1. The financial statements that are audited by the international accounting firm which has a cooperative relationship with the R.O.C. accounting firm;

2. The financial statements that are audited by the R.O.C. parent company's independent accountants;

3. Others: The financial statements that are not audited by the independent accountants

Note 3: The amount disclosed was based on Investment Commission, MOEA Regulation No. 09704604680 announced on August 29, 2008.

Note 4: The numbers in the table shall be expressed in NTD. Foreign currencies shall be translated into NTD at the exchange rate prevailing on the financial reporting date.

Note 5: The 'amounts' are expressed in thousands of New Taiwan dollars.

Note 6: The shares of Very Optoelectronics (HUI ZHOU) Co., Ltd. and Cosmoled Lighting Limited were all disposed on March 14, 2018 and June 25, 2018.

Note 7: The Group lost significant influence over KAISTAR Lighting (Xiamen) Co., Ltd. as the shares of it owned by the Group were less than 20% on April 26, 2018. Therefore, the Group reclassified them into financial assets at fair value through other comprehensive income in accordance with IFRSs.

EPISTAR CORPORATION

Significant transactions conducted with investees in Mainland China directly or indirectly through other companies in the third areas

Year ended December 31, 2019

Provision of

Expressed in thousands of NTD (Except as otherwise indicated)

Table 10

					Accounts receivable		endorsements/guarantees or	rantees or					
	Sale (purchase)	ase)	Property transaction	ıction	(payable)		collaterals			Financing	ing		
									Maximum			Interest during	
Investee in					Balance at		Balance at		balance during	Balance at		the year ended	
Mainland				П	December 31,	О	December 31,		the year ended	December 31,		December 31,	
China	Amount	%	Amount	%	2019	%	2019	Purpose	December 31,	2019	Interest rate	2019	Others
Shanghai Welight Electronic Co., LTD.	\$ 170,826	1 \$	1	·	167,605	<b>S</b>	1	I	-	\$	•	· •	
Jiangsu Canyang Optoelectronics Ltd.	184,669	1	132,258	15	87,845	•	389,740	ı	879,000	430,500	4.2%	5,868	
Jiangsu Canyang Optoelectronics Ltd. (	378,190) (	2) (	11,851)	-	38,419)		•	ı	•	•	•	•	
Luxlite (Shenzhen) Corporation Limited	1,425,371	6		1	775,081	-	1	I	•	1	1	•	
Episky Corporation (Xiamen) Ltd.	768,584	S	29,708	3	335,714	-	2,518,320	1	1,824,000	861,000	5.53%	•	
Episky Corporation (Xiamen) Ltd.	287,519) (	2)	ı	-	50,045)	,	•	1	•	•	'	1	
Epicrystal Corporation (Changzhou) Ltd	449,614	8	16,405	7	83,183			I	•	•	•	•	
Epicrystal Corporation (Changzhou) (Ltd	1,230,596) (	8) (8	11,839)	•	497,916) (	(1)	•	1	•	1	•	1	



Chairman Biing-Jye Lee