GCS HOLDINGS, INC. AND SUBSIDIARIES

CONSOLIDATED FINANCIAL STATEMENTS AND

INDEPENDENT AUDITORS' REPORT

JUNE 30, 2023 AND 2022

For the convenience of readers and for information purpose only, the auditors' report and the accompanying consolidated financial statements have been translated into English from the original Chinese version prepared and used in the Republic of China. In the event of any discrepancy between the English version and the original Chinese version or any differences in the interpretation of the two versions, the Chinese-language auditors' report and consolidated financial statements shall prevail.

INDEPENDENT AUDITORS' REPORT TRANSLATED FROM CHINESE

To GCS Holdings, Inc.

Introduction

We have audited the accompanying consolidated balance sheet of GCS Holdings, Inc. and subsidiaries (the "Group") as of June 30, 2023 and 2022, and the related consolidated statements of comprehensive income for the three-month and six-month periods then ended, as well as the consolidated statements of changes in equity and of cash flows for the six-month periods then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, except as explained in the following paragraph, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as of June 30, 2023 and 2022, and its consolidated financial performance for the three-month and six-month periods then ended, and its consolidated cash flows for the six-month periods then ended in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers and International Accounting Standard 34, "Interim Financial Reporting" that came into effect as endorsed by the Financial Supervisory Commission.

Basis for Qualified Opinion

As explained in Note 6(5), the financial statements of investments accounted for using the equity method were not audited by independent auditors. The balance of investments accounted for using the equity method amounted to NT$ 2,190,061 thousand and NT$ 2,299,482 thousand, respectively, constituting 53% and 48% of the consolidated total assets as of June 30, 2023 and 2022; and the share of comprehensive (loss) income of associates and joint ventures accounted for using equity method amounted to (NT$262,453) thousand, (NT$247,374) thousand, (NT$430,441) thousand and (NT$389,558) thousand, respectively, constituting 91%, 262%, 74% and 304% of the consolidated total comprehensive (loss) income for the three-month and six-month periods then ended. We were not engaged to audit the financial statements of investments accounted for using the equity method, therefore, we could not obtain sufficient and appropriate audit evidence on their financial statements. As a result, we were not able to conclude whether necessary adjustments were needed.

We conducted our audits in accordance with the Regulations Governing Auditing and Attestation of Financial Statements by Certified Public Accountants and Standards on Auditing of in the Republic of China. Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report. We are independent of the Group in accordance with the Norm of Professional Ethics for Certified Public Accountant of the Republic of China, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified opinion.

Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the consolidated financial statements for the six-month period ended June 30, 2023. 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. Key audit matters for the Group's consolidated financial statements for the six-month period ended June 30, 2023 are stated as follows:

Key Audit Matter – Sales revenue recognition

<u>Description</u>

Please refer to Note 4(6) for accounting policies of revenue recognition. Please refer to Note 6(20) for description of revenue.

The Group primarily engages in the manufacturing and selling of compound semiconductor wafers and advanced optoelectronics technology products. Among the operating revenue of NT$592,712 thousands for the six-month period ended June 30, 2023, sales revenue generated from compound semiconductor wafers and advanced optoelectronics technology products amounted to NT$589,954 thousands, representing 99.53% of total operating revenue. The Group's customers include wireless devices and fiber-optic communication providers in China, U.S.A., Taiwan and etc., and sales terms vary based on market conditions and customer needs in different regions. Considering that sales revenue are the main transactions of the Group, which has significant effect on the consolidated financial statements for the six-month period ended June 30, 2023, and requires substantial amount of time and resources for validation, we identified the audit of sales revenue recognition as one of the key audit matters.

<u>How our audit addressed the matter</u>

The major audit procedures regarding sales revenue recognition were as follows:

1. Evaluated the design and operating effectiveness of internal controls relevant to sales revenue recognition.
2. Sampled and tested sales transactions by inspecting customers' purchase orders, documents regarding transfer of control, invoices billed and accounting vouchers to validate the occurrence and accuracy of sales transactions.
3. Performed test of sales transactions within a defined period before and after the balance sheet date in order to verify whether the sales transactions were recorded in the appropriate periods.
4. Performed confirmation procedures and subsequent receipt testing for sampled accounts receivable.

Key Audit Matter – Assessment of allowance for valuation of inventory

<u>Description</u>

Please refer to Note 4(4) for description of accounting policies on allowance for inventory valuation. Please refer to Note 5(2) for accounting estimates and assumption uncertainty on evaluation of inventory. Please refer to Note 6(3) for description of allowance for inventory valuation.

The Group primarily engages in the manufacturing and selling of compound semiconductor wafers and advanced optoelectronics technology products. Due to rapid technological innovations, intense market competition and fluctuations in market prices, there is a higher risk of inventory losses resulted from market value decline or obsolescence. The Group used net realizable value to make provisions for estimated loss related to inventories aged over a certain period and individually identified as obsolete. The aforementioned identification of obsolete inventories and net realizable value are subject to management's judgment. Considering that the Group's inventory and allowance for inventory valuation have a significant impact on the Group's consolidated financial statements for the six-month period ended June 30 , 2023, we identified the assessment of allowance for valuation of inventory as one of the key audit matters.

How our audit addressed the matter

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

1. Assessed the reasonableness of accounting policies and procedures in relation to allowance for inventory valuation.
2. Validated the appropriateness of inventory aging report used by management to ensure that the information in the inventory aging report is consistent with the corresponding accounting policies.
3. Obtained net realizable value calculation report prepared by management, sampled inventory items and checked whether purchase or sales documents corresponded to records and recalculated the net realizable value calculation for accuracy. Performed the aforementioned audit procedures to assess the reasonableness of recognized inventory valuation fluctuations.

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 Accounting Standard 34, "Interim Financial Reporting" that came into effect 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 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 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 Group's financial reporting process.

Auditor'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 an auditors' 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 the Standards on Auditing of the Republic of China 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 the Standards on Auditing of the Republic of China, we exercise professional judgment and 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 the 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 the 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 auditor’s 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 auditor’s report. However, future events or conditions may cause the 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 the Group to express an opinion on the consolidated financial statements.

We are responsible for the direction, supervision and performance of the 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 auditor's 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.

Bai, Shu-Chian	Cheng, Ya-Huei

For and on behalf of PricewaterhouseCoopers, Taiwan
August 1, 2023

GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS
JUNE 30, 2023, DECEMBER 31, 2022 AND JUNE 30, 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS)

	Assets	Notes	June 30, 2023 AMOUNT	%	December 31, 2022 AMOUNT	%	June 30, 2022 AMOUNT	%
	Current assets							
1100	Cash and cash equivalents	6(1)	$ 273,365	6	$ 442,196	10	$ 864,552	18
1170	Accounts receivable, net	6(2)	245,254	6	199,516	4	250,379	5
1180	Accounts receivable - related party	6(2) and 7	2,853	-	2,958	-	11,037	-
1200	Other receivables		1,784	-	3,843	-	1,939	-
1210	Other receivables - related parties	7	-	-	5,984	-	42	-
1220	Current income tax assets		34,959	1	34,480	1	33,336	1
130X	Inventories	6(3)	336,554	8	338,168	7	323,284	7
1410	Prepayments		28,443	1	33,561	1	28,790	-
1470	Other current assets	8	36,852	1	33,314	1	32,247	1
11XX	**Total current Assets**		960,064	23	1,094,020	24	1,545,606	32
	Non-current assets							
1517	Non-current financial assets at fair value through other comprehensive income	6(4)	1,417	-	1,397	-	1,352	-
1550	Investments accounted for using equity method	6(5) and 8	2,190,061	53	2,446,614	54	2,299,482	48
1600	Property, plant and equipment	6(6) and 8	724,572	18	695,667	15	658,543	14
1755	Right-of-use assets	6(7)	20,142	1	24,448	1	977	-
1780	Intangible assets	6(8)	55,300	1	56,678	1	99,609	2
1840	Deferred income tax assets		129,642	3	127,852	3	117,464	2
1990	Other non-current assets	6(10) and 8	38,896	1	70,238	2	75,203	2
15XX	**Total non-current assets**		3,160,030	77	3,422,894	76	3,252,630	68
1XXX	**Total assets**		$ 4,120,094	100	$ 4,516,914	100	$ 4,798,236	100

(Continued)

GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEETS
JUNE 30, 2023, DECEMBER 31, 2022 AND JUNE 30, 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS)

	Liabilities and Equity	Notes	June 30, 2023 AMOUNT	%	December 31, 2022 AMOUNT	%	June 30, 2022 AMOUNT	%
	Current liabilities							
2100	Short-term borrowings	6(11)	$ 20,000	-	$ 20,000	1	$ 20,000	-
2130	Current contract liabilities	6(20)	6,788	-	12,516	-	23,619	1
2170	Accounts payable		31,430	1	7,810	-	5,194	-
2200	Other payables	6(12)	313,670	8	301,021	7	120,272	3
2220	Other payables - related parties	7	29,389	1	2,705	-	5,240	-
2230	Current income tax liabilities		41	-	220	-	73	-
2280	Current lease liabilities		8,693	-	8,273	-	285	-
2320	Long-term borrowings, current portion	6(13)	44,398	1	43,277	1	41,032	1
2399	Other current liabilities		6,962	-	9,758	-	893	-
21XX	**Total current liabilities**		461,371	11	405,580	9	216,608	5
	Non-current liabilities							
2540	Long-term borrowings	6(13)	311,431	8	329,110	7	339,627	7
2570	Deferred income tax liabilities		66,454	2	65,537	2	63,526	1
2580	Non-current lease liabilities		11,399	-	15,965	-	-	-
25XX	**Total non-current liabilities**		389,284	10	410,612	9	403,153	8
2XXX	**Total liabilities**		850,655	21	816,192	18	619,761	13
	Equity							
	Share capital	6(16)						
3110	Common stock		1,113,107	27	1,108,251	24	1,108,421	23
	Capital surplus	6(17)						
3200	Capital surplus		2,750,754	67	2,825,143	63	2,749,185	57
	Retained earnings	6(18)						
3320	Special reserve		6,821	-	6,821	-	6,821	-
3350	Unappropriated retained earnings (Accoumulated deficit)		(559,469)	(14)	(229,734)	(5)	386,194	8
	Other equity interest	6(19)						
3400	Other equity interest		(41,774)	(1)	(9,759)	-	(72,146)	(1)
3XXX	**Total equity**		3,269,439	79	3,700,722	82	4,178,475	87
	Significant contingent liabilities and unrecognized contract commitments	9						
3X2X	**Total liabilities and equity**		$ 4,120,094	100	$ 4,516,914	100	$ 4,798,236	100

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

GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
THREE-MONTH AND SIX-MONTH PERIODS ENDED JUNE 30, 2023 AND 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS, EXCEPT FOR LOSSES PER SHARE)

			Three months ended June 30				Six months ended June 30			
			2023		2022		2023		2022	
	Items	Notes	AMOUNT	%	AMOUNT	%	AMOUNT	%	AMOUNT	%
4000	Operating revenue	6(20) and 7	$ 322,231	100	$ 339,759	100	$ 592,712	100	$ 637,244	100
5000	Cost of operating revenue	6(3)(23)(24) and 7	(274,382)	(85)	(245,638)	(72)	(510,379)	(86)	(448,520)	(70)
5900	Net operating margin		47,849	15	94,121	28	82,333	14	188,724	30
	Operating expenses	6(23)(24)								
6100	Selling and marketing expenses		(8,358)	(3)	(9,424)	(3)	(21,450)	(4)	(17,764)	(3)
6200	General and administrative expenses		(56,358)	(17)	(57,066)	(17)	(108,779)	(18)	(111,436)	(18)
6300	Research and development expenses		(81,827)	(25)	(36,093)	(11)	(136,912)	(23)	(83,202)	(13)
6450	Net impairment income on financial assets	12(2)	4,590	1	28	-	2,290	-	-	-
6000	Total operating expenses		(141,953)	(44)	(102,555)	(31)	(264,851)	(45)	(212,402)	(34)
6900	Operating loss		(94,104)	(29)	(8,434)	(3)	(182,518)	(31)	(23,678)	(4)
	Non-operating income and expenses									
7100	Interest income		1,028	-	620	-	2,006	-	1,287	-
7010	Other income		-	-	5,446	2	22	-	5,559	1
7020	Other gains and losses	6(21)	(1,464)	(1)	(4,207)	(1)	(5,504)	(1)	(23,063)	(4)
7050	Finance costs	6(22)	(4,589)	(1)	(2,433)	(1)	(8,429)	(1)	(4,267)	(1)
7060	Share of net loss of associates and joint ventures accounted for using equity method	6(5)	(166,818)	(52)	(146,440)	(43)	(365,005)	(61)	(284,492)	(44)
7000	Total non-operating income and expenses		(171,843)	(54)	(147,014)	(43)	(376,910)	(63)	(304,976)	(48)
7900	**Loss before income tax**		(265,947)	(83)	(155,448)	(46)	(559,428)	(94)	(328,654)	(52)
7950	Income tax (expense) benefit	6(25)	(41)	-	2,984	1	(41)	-	5,528	1
8200	**Net loss for the period**		($ 265,988)	(83)	($ 152,464)	(45)	($ 559,469)	(94)	($ 323,126)	(51)
	Other comprehensive income (loss)									
	Other comprehensive income components that will not be reclassified to profit or loss									
8361	Financial statements translation differences of foreign operations	6(19)	$ 74,520	23	$ 163,650	48	$ 42,676	7	$ 309,081	49
	Components of other comprehensive loss that will be reclassified to profit or loss									
8370	Share of other comprehensive loss of subsidiaries, associates and joint ventures accounted for using the equity method-financial statements translation differences of foreign operations	6(19)	(97,706)	(30)	(105,760)	(31)	(66,466)	(11)	(114,261)	(18)
8300	**Total other comprehensive (loss) income, net**		($ 23,186)	(7)	$ 57,890	17	($ 23,790)	(4)	$ 194,820	31
8500	**Total comprehensive loss for the period**		($ 289,174)	(90)	($ 94,574)	(28)	($ 583,259)	(98)	($ 128,306)	(20)
	Total net loss attributable to:									
8610	Owners of the parent		($ 265,988)	(83)	($ 152,464)	(45)	($ 559,469)	(94)	($ 323,126)	(51)
	Total comprehensive loss attributable to:									
8710	Owners of the parent		($ 289,174)	(90)	($ 94,574)	(28)	($ 583,259)	(98)	($ 128,306)	(20)
	Losses per share	6(26)								
9750	Basic losses per share (in dollars)		($ 2.41)		($ 1.39)		($ 5.07)		($ 2.94)	
9850	Diluted losses per share (in dollars)		($ 2.41)		($ 1.39)		($ 5.07)		($ 2.94)	

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

GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY
SIX-MONTH PERIODS ENDED JUNE 30, 2023 AND 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS)

		Equity Attributable to Owners of The Parent							
				Retained Earnings		Other Equity Interest			
	Notes	Common Stock	Capital Surplus	Special Reserve	Unappropriated Retained Earnings	Financial Statements Translation Differences Of Foreign Operations	Unearned Compensation Costs	Treasury Stocks	Total
Six-month period ended June 30, 2022									
Balance at January 1, 2022		$ 1,106,761	$ 2,937,329	$ 6,821	$ 715,327	($ 248,611)	($ 5,432)	($ 12,955)	$ 4,499,240
Consolidated net loss for the period		-	-	-	(323,126)	-	-	-	(323,126)
Other comprehensive income for the period	6(19)	-	-	-	-	194,820	-	-	194,820
Total comprehensive (loss) income for the period		-	-	-	(323,126)	194,820	-	-	(128,306)
Compensation costs of share-based payment	6(15)(17)(19)	-	12,946	-	-	-	3,848	-	16,794
Issuance of restricted stocks to employees	6(15)(16)(17)(19)	4,450	16,039	-	-	-	(20,489)	-	-
Retirement of restricted stocks to employees	6(15)(16)(17)(19)	(790)	(2,928)	-	-	-	3,718	-	-
Exercise of employee stock options	6(15)(16)(17)	500	1,067	-	-	-	-	-	1,567
Retirement of treasury stocks	6(16)(17)	(2,500)	(4,448)	-	(6,007)	-	-	12,955	-
Recognized changes in equity of associates	6(17)	-	(210,820)	-	-	-	-	-	(210,820)
Balance at June 30, 2022		$ 1,108,421	$ 2,749,185	$ 6,821	$ 386,194	($ 53,791)	($ 18,355)	$ -	$ 4,178,475
Six-month period ended June 30, 2023									
Balance at January 1, 2023		$ 1,108,251	$ 2,825,143	$ 6,821	($ 229,734)	($ 2,438)	($ 7,321)	$ -	$ 3,700,722
Consolidated net loss for the period		-	-	-	(559,469)	-	-	-	(559,469)
Other comprehensive loss for the period	6(19)	-	-	-	-	(23,790)	-	-	(23,790)
Total comprehensive loss for the period		-	-	-	(559,469)	(23,790)	-	-	(583,259)
Capital surplus used to compensate accumulated deficits	6(18)	-	(229,734)	-	229,734	-	-	-	-
Compensation costs of share-based payment	6(15)(17)(19)	-	1,301	-	-	-	10,452	-	11,753
Issuance of restricted stocks to employees	6(15)(16)(17)(19)	4,830	13,847	-	-	-	(18,677)	-	-
Exercise of employee stock options	6(15)(16)(17)	26	3	-	-	-	-	-	29
Retirement of employee stock options	6(15)(17)	-	(2,535)	-	-	-	-	-	(2,535)
Recognized changes in equity of associates	6(17)	-	142,729	-	-	-	-	-	142,729
Balance at June 30, 2023		$ 1,113,107	$ 2,750,754	$ 6,821	($ 559,469)	($ 26,228)	($ 15,546)	$ -	$ 3,269,439

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

GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS
SIX-MONTH PERIODS ENDED JUNE 30, 2023 AND 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS)

	Notes	Six-month periods ended June 30 2023	2022
CASH FLOWS FROM OPERATING ACTIVITIES			
Loss before tax		($ 559,428)	($ 328,654)
Adjustments			
Adjustments to reconcile profit (loss)			
Net impairment income on financial assets	12(2)	(2,290)	-
Depreciation	6(6)(7)(23)	66,924	57,372
Amortization	6(8)(23)	3,598	3,302
Interest expense	6(22)	8,429	4,267
Interest income		(2,006)	(1,287)
Compensation cost of share-based payment	6(15)	9,218	16,794
Gain on disposal of property, plant and equipment	6(21)	-	(4,603)
Payroll protection loan exempt income	6(13)	-	(5,408)
Share of net loss of associate and joint ventures accounted for using equity method	6(5)	365,005	284,492
Loss on subsidiary liquidation	6(21)	105	-
(Gain) loss on disposal of investments	6(5)(21)	(2,413)	302
Changes in operating assets and liabilities			
Changes in operating assets			
Accounts receivable		(39,842)	(81,155)
Accounts receivable- related party		143	(8,735)
Other receivables		2,106	(52)
Other receivables- related parties		302	23
Inventories		6,229	(21,561)
Prepayments		5,407	3,620
Changes in operating liabilities			
Contract liabilities		(5,792)	255
Accounts payable		23,066	7,608
Other payables		2,973	6,900
Other payables- related parties		26,965	5,069
Other current liabilities		(2,877)	(154)
Cash outflow generated from operations		(94,178)	(61,605)
Interest received		2,006	3,410
Interest paid		(8,429)	(4,267)
Income tax paid		(211)	(354)
Net cash flows used in operating activities		(100,812)	(62,816)

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GCS HOLDINGS, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS
SIX-MONTH PERIODS ENDED JUNE 30, 2023 AND 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS)

	Notes	Six-month periods ended June 30 2023	2022
CASH FLOWS FROM INVESTING ACTIVITIES			
Acquisition of investments accounted for using the equity method	6(5)(27) and 7	$ -	($ 1,043,899)
Acquisition of property, plant and equipment	6(27)	(45,635)	(116,757)
Proceeds from disposal of property, plant and equipment	6(27)	5,652	21,003
Acquisition of intangible assets	6(8)	(1,466)	(1,648)
Decrease in refundable deposits		160	-
Increase in other current assets		(3,173)	(88)
Decrease in other non-current assets		300	13
Proceeds from disposal of a subsidiary	6(27)	(49,519)	-
Proceeds from liquidation of a subsidiary	6(27)	49,519	-
Net cash flows used in investing activities		(44,162)	(1,141,376)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from short-term borrowing	6(28)	20,000	-
Repayments of short-term borrowing	6(28)	(20,000)	-
Proceeds from long-term borrowings	6(28)	-	169,454
Repayments of long-term borrowings	6(28)	(21,359)	(2,637)
Repayments of lease liabilities	6(28)	(4,400)	(3,246)
Proceeds from exercise of employee stock options		29	1,567
Net cash flows (used in) from financing activities		(25,730)	165,138
Effect of changes in exchange rates		1,873	63,841
Net decrease in cash and cash equivalents		(168,831)	(975,213)
Cash and cash equivalents at beginning of period	6(1)	442,196	1,839,765
Cash and cash equivalents at end of period	6(1)	$ 273,365	$ 864,552

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

GCS HOLDINGS, INC. AND SUBSIDIARIES
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS
SIX-MONTH PERIODS ENDED JUNE 30, 2023 AND 2022
(EXPRESSED IN THOUSANDS OF NEW TAIWAN DOLLARS,
EXCEPT AS OTHERWISE INDICATED)

1. HISTORY AND ORGANIZATION

GCS Holdings Inc. (the "Company") was incorporated in the Cayman Islands on November 30, 2010, as a holding company for the purpose of registering its shares with the Taipei Exchange. The Company was approved by the Financial Supervisory Commission to be listed on the Taipei Exchange. The Company's common shares have been traded on the Taipei Exchange since September 15, 2014.

The Company and subsidiaries (collectively referred herein as the "Group") are engaged in the manufacturing of compound semiconductor wafers and foundry related services as well as licensing of intellectual property. The Group is also engaged in the research, development, manufacture and sales of advanced optoelectronics technology products.

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 August 1, 2023.

3. APPLICATION OF NEW STANDARDS, AMENDMENTS AND INTERPRETATIONS

(1) Effect of the adoption of new issuances of or amendments to International Financial Reporting Standards ("IFRSs") that came into effect as endorsed by the Financial Supervisory Commission ("FSC")

New standards, interpretations and amendments endorsed by the FSC effective from 2023 are as follows:

New Standards, Interpretations and Amendments	Effective date by International Accounting Standard Board ("IASB")
Amendments to IAS 1, 'Disclosure of accounting policies'	January 1, 2023
Amendments to IAS 8, 'Definition of accounting estimates'	January 1, 2023
Amendments to IAS 12, 'Deferred tax related to assets and liabilities arising from a single transaction'	January 1, 2023

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

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

None.

(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 as endorsed by the FSC are as follows:

New Standards, Interpretations and Amendments	Effective date by IASB
Amendments to IFRS 10 and IAS 28, 'Sale or contribution of assets between an investor and its associate or joint venture'	To be determined by IASB
Amendments to IFRS 16, 'Lease liability in a sale and leaseback'	January 1, 2024
IFRS 17, 'Insurance contracts'	January 1, 2023
Amendments to IFRS 17, 'Insurance contracts'	January 1, 2023
Amendment to IFRS 17, 'Initial application of IFRS 17 and IFRS 9-comparative information'	January 1, 2023
Amendments to IAS 1, 'Classification of liabilities as current or non-current'	January 1, 2024
Amendments to IAS 1, 'Non-current liabilities with covenants'	January 1, 2024
Amendments to IAS 7 and IFRS 7, 'Supplier finance arrangements'	January 1, 2024
Amendments to IAS 12, 'International tax reform - pillar two model rules'	May 23, 2023

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. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The principal accounting policies adopted are consistent with Note 4 in the consolidated financial statement for the year ended December 31, 2022 except for the compliance statement, basis of preparation, basis of consolidation and additional policies as set out below. These policies have been consistently applied to all the periods presented, unless otherwise stated.

(1) Compliance statement

A. The consolidated financial statements of the Group have been prepared in accordance with the Regulations Governing the Preparation of Financial Reports by Securities Issuers and the International Accounting Standard 34, 'Interim financial reporting' that came into effect as endorsed by the FSC.

B. These consolidated financial statements are to be read in conjunction with the consolidated financial statements for the year ended December 31, 2022.

(2) Basis of preparation

A. Except for the 'Financial assets at fair value through other comprehensive income', the consolidated financial statements have been prepared under the historical cost convention.

B. The preparation of financial statements in conformity with IFRSs requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies. The areas involving a higher degree of judgement 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 can 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 loss 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.

B. Subsidiaries included in the consolidated financial statements:

Name of investor	Name of subsidiary	Main business activities	Ownership (%)			Note
			June 30, 2023	December 31, 2022	June 30, 2022	
The Company	Global Communication Semiconductors, LLC	1. Manufacturing of compound semiconductor wafers and foundry related services as well as granting royalty rights for intellectual property 2. Manufacturing and selling of advanced optoelectronics technology products	100	100	100	-
The Company	GCS Device Technologies, Co., Ltd.	Product design and research development services	100	100	100	-
The Company	GCOM Semiconductor Co., Ltd.	Wholesaling and retailing of electronic components, product design, and outsourcing management services	-	100	100	(Note)
Global Communication Semiconductors, LLC	D-Tech Optoelectronics, Inc.	Developing, manufacturing and selling of photodiodes and avalanche photodiodes for telecommunication systems and data communication networks	100	100	100	-
D-Tech Optoelectronics, Inc.	D-Tech Optoelectronics (Taiwan) Corporation	Manufacturing, retailing and wholesaling of telecommunications devices, and manufacturing and wholesaling of electronic components	100	100	100	-

Note: On November 1, 2022, the Company's Board of Directors resolved to dissolve and liquidate the subsidiary, GCOM Semiconductor Co., Ltd. The Company also obtained the completion letter of liquidation issued by the court on May 31, 2023, and collected the remaining investment amount of $49,519 on June 15, 2023.

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 interests that are material to the Group: None.

(4) Inventories

Inventories are stated at the lower of cost and net realizable value. Cost is determined using the first in, first-out method. The cost of finished goods and work in progress comprises 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.

(5) Income tax

The interim period income tax expense is recognized based on the estimated average annual effective income tax rate expected for the full financial year applied to the pretax income of the interim period, and the related information is disclosed accordingly.

(6) Revenue recognition

A. Sales of goods

(a) The Group engages in the manufacturing and selling of compound semiconductor wafer and advanced optoelectronics technology products. Sales are recognized when control of the products has transferred, being when the products are delivered to the wholesaler, the wholesaler has full discretion over the channel and price to sell the products, and there is no unfulfilled obligation that could affect the wholesaler'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 wholesaler 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) Revenue from these sales is recognized based on the price specified in the contract. A refund liability is recognized for expected sales discounts and allowances payable to customers in relation to sales made until the end of the reporting period.

(c) A receivable is recognized when the goods are delivered as this is the point in time that theconsideration is unconditional because only the passage of time is required before the payment is due.

B. Royalty revenue

Some contracts require sales-based royalty in exchange for a license of intellectual property. The Group recognizes revenue when the performance obligation has been satisfied and the subsequent sale occurs.

C. Financing components

The Group does not expect to have any contracts where the period between the transfer of the promised goods or services to the customer and payment by the customer exceeds one year. As a consequence, the Group does not adjust any of the transaction prices for the time value of money.

5. CRITICAL ACCOUNTING JUDGEMENTS, ESTIMATES AND KEY SOURCES OF 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) Critical judgements in applying the Group's accounting policies

None.

(2) Critical accounting estimates and assumptions

The Group make estimates and assumptions based on 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:

Evaluation of inventories

As inventories are stated at the lower of cost and net realisable value, the Group must determine the net realisable value of inventories on balance sheet date using judgements and estimates. Due to the rapid technology innovation, the Group 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 realisable 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 June 30, 2023, the carrying amount of inventories was $336,554.

6. DETAILS OF SIGNIFICANT ACCOUNTS

(1) Cash and cash equivalents

	June 30, 2023	December 31, 2022	June 30, 2022
Cash on hand	$ 112	$ 114	$ 113
Checking accounts and demand deposits	245,086	413,762	837,839
Time deposits	28,167	28,320	26,600
	$ 273,365	$ 442,196	$ 864,552

A. The Group transacts with a variety of financial institutions with high credit quality to disperse credit risk and expects that the probability of counterparty default is remote.

B. The Group has no cash and cash equivalents pledged to others.

(2) Accounts receivable

	June 30, 2023	December 31, 2022	June 30, 2022
Accounts receivable	$ 272,447	$ 228,635	$ 251,622
Accounts receivable-related party	2,853	2,958	11,037
Less: Loss allowance	(27,193)	(29,119)	(1,243)
	$ 248,107	$ 202,474	$ 261,416

A. As of June 30, 2023, December 31, 2022 and June 30, 2022, accounts receivable were all from contracts with customers. And as of January 1, 2022, the balance of receivables from contracts with customers was $158,786.

B. Information relating to credit risk of accounts receivable is provided in Note 12(2).

(3) Inventories

	June 30, 2023		
	Cost	Allowance	Book value
Raw materials	$ 146,007	($ 21,723)	$ 124,284
Work in progress	269,372	(82,065)	187,307
Finished goods	40,708	(15,745)	24,963
	$ 456,087	($ 119,533)	$ 336,554

	December 31, 2022		
	Cost	Allowance	Book value
Raw materials	$ 141,531	($ 21,590)	$ 119,941
Work in progress	246,890	(54,654)	192,236
Finished goods	40,127	(14,136)	25,991
	$ 428,548	($ 90,380)	$ 338,168

	June 30, 2022		
	Cost	Allowance	Book value
Raw materials	$ 110,439	($ 12,539)	$ 97,900
Work in progress	252,435	(55,989)	196,446
Finished goods	36,432	(7,494)	28,938
	$ 399,306	($ 76,022)	$ 323,284

Expenses and costs incurred as cost of operating revenue for the three-month and six-month periods ended June 30, 2023 and 2022 were as follows:

	Three-month periods ended June 30,	
	2023	2022
Cost of goods sold	$ 266,330	$ 261,362
Loss (gain) on (reversal of) decline in market price	17,798	(7,304)
Revenue from sale of scraps	(9,746)	(8,420)
	$ 274,382	$ 245,638

	Six-month periods ended June 30,	
	2023	2022
Cost of goods sold	$ 499,259	$ 489,313
Loss (gain) on (reversal of) decline in market price	25,232	(22,221)
Revenue from sale of scraps	(14,112)	(18,572)
	$ 510,379	$ 448,520

The Group recognized gain on reversal of market price decline for the three-month and six-month periods ended June 30, 2022 because some of the inventories previously written down were sold.

(4) Financial assets at fair value through other comprehensive income

Items	June 30, 2023	December 31, 2022	June 30, 2022
Non-current items:			
Equity instruments			
Unlisted, OTC, Emerging stocks	$ 1,417	$ 1,397	$ 1,352
Valuation adjustment	-	-	-
	$ 1,417	$ 1,397	$ 1,352

A. The Group has elected to classify investments that are considered to be strategic investments as financial assets at fair value through other comprehensive income. The fair value of such investments amounted to $1,417, $1,397 and $1,352 as of June 30, 2023, December 31, 2022 and June 30, 2022, respectively.

B. Information relating to credit risk of financial assets at fair value through other comprehensive income is provided in Note 12(2).

(5) Investments accounted for using the equity method

A. The Group's movements and details of investments accounted for using the equity method are as follows:

	2023	2022
At January 1	$ 2,446,614	$ 1,690,553
Addition of investments accounted for using the equity method	-	1,043,899
Share of net loss of investments accounted for using the equity method	(365,005)	(284,492)
Changes in capital surplus	142,729	(210,820)
Gain (loss) on disposal of investments transferred from other comprehensive income due to not recognized by shareholding percentage	2,413	(302)
Net exchange difference	(36,690)	60,644
At June 30	$ 2,190,061	$ 2,299,482

	June 30, 2023	December 31, 2022	June 30, 2022
Associate:			
Unikorn Semiconductor Corporation ("Unikorn")	$ 616,618	$ 662,368	$ 579,036
Joint ventures:			
Changzhou Chemsemi Co., Ltd. ("Chemsemi")	1,462,513	1,663,486	1,605,685
Shanghai Galasemi Co., Ltd. ("Shanghai Galasemi")	110,930	120,760	114,761
	$ 2,190,061	$ 2,446,614	$ 2,299,482

B. The basic information of the associate and joint ventures that is material to the Group is as follows:

		Shareholding ratio				
Company name	Principal place of business	June 30, 2023	December 31, 2022	June 30, 2022	Nature of relationship	Methods of measurement
Unikorn	Taiwan	39.07%	42.06%	46.40%	Associate	Equity method
Chemsemi	China	24.21%	24.21%	21.87%	Joint venture	Equity method
Shanghai Galasemi	China	48.00%	48.00%	48.00%	Joint venture	Equity method

C. The summarized financial information of the associate and joint ventures that is material to the Group is as follows:

Balance sheet

	Unikorn		
	June 30, 2023	December 31, 2022	June 30, 2022
Current assets	$ 1,007,534	$ 1,581,958	$ 1,237,200
Non-current assets	1,493,389	1,320,778	1,228,711
Current liabilities	(1,201,759)	(1,283,976)	(1,066,262)
Non-current liabilities	(237,500)	(506,162)	(555,791)
Total net assets	$ 1,061,664	$ 1,112,598	$ 843,858

	Chemsemi		
	June 30, 2023	December 31, 2022	June 30, 2022
Current assets	$ 2,011,652	$ 3,107,926	$ 3,654,181
Non-current assets	8,315,270	6,837,171	4,658,172
Current liabilities	(1,083,620)	(1,076,537)	(355,241)
Non-current liabilities	(3,202,358)	(1,997,491)	(615,161)
Total net assets	$ 6,040,944	$ 6,871,069	$ 7,341,951

	Shanghai Galasemi		
	June 30, 2023	December 31, 2022	June 30, 2022
Current assets	$ 180,375	$ 219,531	$ 165,743
Non-current assets	161,804	165,534	119,955
Current liabilities	(31,747)	(49,647)	(22,906)
Non-current liabilities	(60,132)	(61,773)	-
Total net assets	$ 250,300	$ 273,645	$ 262,792

Statement of comprehensive income

	Unikorn	
	Three-month periods ended June 30,	
	2023	2022
Net loss	($ 191,178)	($ 228,293)
Total comprehensive loss	($ 191,203)	($ 228,293)

	Unikorn	
	Six-month periods ended June 30,	
	2023	2022
Net loss	($ 470,550)	($ 443,528)
Total comprehensive loss	($ 470,575)	($ 443,652)

	Chemsemi	
	Three-month periods ended June 30,	
	2023	2022
Net loss/ total comprehensive loss	($ 358,283)	($ 192,226)

	Chemsemi	
	Six-month periods ended June 30,	
	2023	2022
Net loss/ total comprehensive loss	($ 679,045)	($ 341,306)

	Shanghai Galasemi	
	Three-month periods ended June 30,	
	2023	2022
Net income/ total comprehensive income	$ 1,249	$ 1,225

	Shanghai Galasemi	
	Six-month periods ended June 30,	
	2023	2022
Net loss/ total comprehensive loss	($ 16,901)	($ 15,058)

D. In March and December 2022, the Group participated in Unikorn's increase of common stocks for cash amounting to $600,000 thousand (USD 21,375 thousand) and $100,000 thousand (USD 3,256 thousand), respectively. Through the completion of participation in Unikorn's issuance of common stocks, the Group holds 42.06% of Unikorn's common stocks issued. Additionally, the Group did not participate in Unikorn's 2023 increase of common stocks for cash in June 2023, resulting in a change in the shareholding ratio of Unikorn by the Group from 42.06% to 39.07%.

E. In February and October 2022, the Group participated in Chemsemi's increase of common stocks for cash amounting to USD 15,837 thousand ($443,899 thousand) and USD 7,885 thousand ($251,191 thousand). In addition, the Group acquired the equity of Chemsemi from other shareholder at RMB 43,356 thousand ($191,137 thousand) in November 2022, and gave part of the shares of Chemsemi held by the Group to other shareholder as guarantee for the payment of the transfer of equity. As of June 30, 2023 and December 31, 2022, the Group has not yet paid the transfer of equity of $199,000 and $191,137 (recognized as "Other payables"), respectively.

F. Please refer to Note 8 for information on guarantees provided by investments accounted for using the equity method.

(6) Property, plant and equipment

	Land	Buildings	Machinery equipment	Computer and communication equipment	Research equipment	Office equipment	Leasehold improvements	Construction in progress and equipment to be inspected	Total
At January 1, 2023									
Cost	$ 141,420	$ 94,280	$ 1,346,758	$ 9,283	$ 160,802	$ 9,552	$ 306,573	$ 87,304	$ 2,155,972
Accumulated depreciation and impairment	-	(19,978)	(1,071,889)	(8,340)	(85,412)	(9,249)	(265,437)	-	(1,460,305)
	$ 141,420	$ 74,302	$ 274,869	$ 943	$ 75,390	$ 303	$ 41,136	$ 87,304	$ 695,667
2023									
Opening net book amount	$ 141,420	$ 74,302	$ 274,869	$ 943	$ 75,390	$ 303	$ 41,136	$ 87,304	$ 695,667
Additions	-	-	21,381	-	-	-	-	59,784	81,165
Transfers	-	-	79,098	-	-	-	-	(79,098)	-
Depreciation charges	-	(1,340)	(47,144)	(206)	(8,729)	(94)	(4,851)	-	(62,364)
Net exchange differences	1,980	1,014	4,879	9	888	3	482	849	10,104
Closing net book amount	$ 143,400	$ 73,976	$ 333,083	$ 746	$ 67,549	$ 212	$ 36,767	$ 68,839	$ 724,572
At June 30, 2023									
Cost	$ 143,400	$ 95,600	$ 1,468,027	$ 9,400	$ 163,003	$ 9,682	$ 310,858	$ 68,839	$ 2,268,809
Accumulated depreciation and impairment	-	(21,624)	(1,134,944)	(8,654)	(95,454)	(9,470)	(274,091)	-	(1,544,237)
	$ 143,400	$ 73,976	$ 333,083	$ 746	$ 67,549	$ 212	$ 36,767	$ 68,839	$ 724,572

	Land	Buildings	Machinery equipment	Computer and communication equipment	Research equipment	Office equipment	Leasehold improvements	Construction in progress and equipment to be inspected	Total
At January 1, 2022									
Cost	$ 127,466	$ 84,978	$ 1,212,720	$ 9,304	$ 99,828	$ 9,459	$ 269,208	$ 36,343	$ 1,849,306
Accumulated depreciation and impairment	-	(15,579)	(937,287)	(8,014)	(67,768)	(8,987)	(236,186)	-	(1,273,821)
	$ 127,466	$ 69,399	$ 275,433	$ 1,290	$ 32,060	$ 472	$ 33,022	$ 36,343	$ 575,485
2022									
Opening net book amount	$ 127,466	$ 69,399	$ 275,433	$ 1,290	$ 32,060	$ 472	$ 33,022	$ 36,343	$ 575,485
Additions	-	-	10,226	-	53,868	-	12,628	18,645	95,367
Transfers	-	-	4,476	-	-	-	-	(4,476)	-
Disposals	-	-	(27)	-	-	-	-	(683)	(710)
Depreciation charges	-	(1,260)	(42,271)	(233)	(6,802)	(114)	(3,859)	-	(54,539)
Net exchange differences	9,395	5,070	18,547	86	3,924	31	2,738	3,149	42,940
Closing net book amount	$ 136,861	$ 73,209	$ 266,384	$ 1,143	$ 83,050	$ 389	$ 44,529	$ 52,978	$ 658,543
At June 30, 2022									
Cost	$ 136,861	$ 91,240	$ 1,279,415	$ 9,084	$ 162,182	$ 10,072	$ 301,706	$ 52,978	$ 2,043,538
Accumulated depreciation and impairment	-	(18,031)	(1,013,031)	(7,941)	(79,132)	(9,683)	(257,177)	-	(1,384,995)
	$ 136,861	$ 73,209	$ 266,384	$ 1,143	$ 83,050	$ 389	$ 44,529	$ 52,978	$ 658,543

A. Amount of borrowing costs capitalized as part of property, plant and equipment for the six-month periods ended June 30, 2023 and 2022: None.

B. Information about the property, plant and equipment that were pledged to others as collateral is provided in Note 8.

(7) Leasing arrangements—lessee

A. The Group leases various assets including plant and office premises. Lease agreements are typically made for periods of 1 to 4 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. Short-term leases with a lease term of 12 months or less comprise of office premises and parking spaces. Low-value assets comprise of office equipment.

B. The carrying amount of right-of-use assets and the depreciation charges are as follows:

	June 30, 2023	December 31, 2022	June 30, 2022
	Carrying amount	Carrying amount	Carrying amount
Buildings	$ 20,142	$ 24,448	$ 977

	Three-month periods ended June 30,	
	2023	2022
	Depreciation charge	Depreciation charge
Buildings	$ 2,292	$ 1,453

	Six-month periods ended June 30,	
	2023	2022
	Depreciation charge	Depreciation charge
Buildings	$ 4,560	$ 2,833

C. The information on income and expense accounts relating to lease agreements is as follows:

	Three-month periods ended June 30,	
	2023	2022
Items affecting profit or loss		
Interest expense on lease liabilities	$ 187	$ 23
Expense on short-term lease agreements	628	451
Expense on leases of low-value assets	14	12

	Six-month periods ended June 30,	
	2023	2022
Items affecting profit or loss		
Interest expense on lease liabilities	$ 391	$ 71
Expense on short-term lease agreements	1,253	929
Expense on leases of low-value assets	30	25

D. For the six-month periods ended June 30, 2023 and 2022, the Group's total cash outflow for leases amounted to $6,074 and $4,271, respectively.

(8) Intangible assets

	Computer Software	Goodwill	Total
At January 1, 2023			
Cost	$ 74,953	$ 178,428	$ 253,381
Accumulated amortization and impairment	(65,812)	(130,891)	(196,703)
	$ 9,141	$ 47,537	$ 56,678
2023			
At January 1	$ 9,141	$ 47,537	$ 56,678
Addition	1,466	-	1,466
Amortization charges	(3,598)	-	(3,598)
Net exchange differences	88	666	754
At June 30	$ 7,097	$ 48,203	$ 55,300
At June 30, 2023			
Cost	$ 76,658	$ 180,927	$ 257,585
Accumulated amortization and impairment	(69,561)	(132,724)	(202,285)
	$ 7,097	$ 48,203	$ 55,300

	Computer Software	Goodwill	Total
At January 1, 2022			
Cost	$ 66,520	$ 160,824	$ 227,344
Accumulated amortization and impairment	(53,842)	(79,136)	(132,978)
	$ 12,678	$ 81,688	$ 94,366
2022			
At January 1	$ 12,678	$ 81,688	$ 94,366
Addition	1,648	-	1,648
Amortization charges	(3,302)	-	(3,302)
Net exchange differences	876	6,021	6,897
At June 30	$ 11,900	$ 87,709	$ 99,609
At June 30, 2022			
Cost	$ 72,266	$ 172,676	$ 244,942
Accumulated amortization and impairment	(60,366)	(84,967)	(145,333)
	$ 11,900	$ 87,709	$ 99,609

A. Details of amortization on intangible assets are as follows:

	Three-month periods ended June 30,	
	2023	2022
Cost of operating revenue	$ 1,760	$ 1,739

	Six-month periods ended June 30,	
	2023	2022
Cost of operating revenue	$ 3,598	$ 3,302

B. Please refer to Note 6(9) for the information about the goodwill impairment assessment.

(9) Impairment of non-financial assets

As of June 30, 2023, the Group's assumptions used for impairment testing did not change significantly. Please refer to Note 6(9) in the consolidated financial statements for the year ended December 31, 2022.

(10) Non-current assets

Item	June 30, 2023	December 31, 2022	June 30, 2022
Prepayments for equipment	$ 36,485	$ 67,556	$ 72,598
Refundable deposits (Note 1)	2,411	2,382	2,305
Time deposits (Note 2)	-	300	300
	$ 38,896	$ 70,238	$ 75,203

Note 1: Please refer to Note 8 for the information of the contracts secured by refundable deposits.

Note 2: Please refer to Note 8 for the information of the Group's pledged assets.

(11) Short-term borrowings

Type of borrowings	June 30, 2023	December 31, 2022	June 30, 2022	Collateral
Bank borrowings				
Secured borrowings	$ 20,000	$ 20,000	$ 20,000	Time deposit (Note)
Interest rate range	2.40%	2.10%	1.66%	

Note: Please refer to Note 8 for the information of the Group's assets pledged to secured borrowings.

(12) Other payables

	June 30, 2023	December 31, 2022	June 30, 2022
Payable for investment(Note)	$ 199,000	$ 191,137	$ -
Accrued salaries and bonuses	38,985	46,092	48,479
Accrued unused compensated absences	29,762	29,839	28,001
Payables for equipment	10,234	5,775	16,678
Accrued maintenance expenses	8,898	1,982	-
Accrued utilities	660	2,944	6,705
Accrued professional service fee	453	412	521
Accrued outsourcing manufacturing services charges	3,430	1,886	7,232
Other accrued expenses	22,248	20,954	12,656
	$ 313,670	$ 301,021	$ 120,272

Note：Please refer to Note 6(5) for information on relevant investment payables.

(13) Long-term borrowings

Type of borrowings	Borrowing period and repayment term	Interest rate	Collateral	June 30, 2023	December 31, 2022	June 30, 2022
Subsidiary- Global Communication Semiconductor, LLC						
Secured borrowings (Note 1)	(Note 2)	3.50%~4.50%	Land and buildings (Note 5)	$ 209,250	$ 209,338	$ 205,306
Non-secured borrowings (Note 1)	(Note 3)	4.00%~5.00%	-	146,579	163,049	175,353
				355,829	372,387	380,659
Less: Current portion				(44,398)	(43,277)	(41,032)
				$ 311,431	$ 329,110	$ 339,627

Note 1: According to the secured loan contract, the Group was required to comply with certain financial covenants by maintaining certain financial ratios, such as debt coverage ratio, on an annual basis. As of June 30, 2023, December 31, 2022 and June 30, 2022, the Group had not violated any of the required financial covenants.

Note 2: Borrowing period is from August 6, 2015 to August 6, 2022; interest and principal are repayable monthly. On July 12, 2021, the Company's subsidiary, Global Communication Semiconductor, LLC made amendments to the aforementioned long-term loan contract with the bank. The main amendments are that the borrowing amount is adjusted to USD 7,100 thousand with the maturity date on August 6, 2031, and the borrowing rate was adjusted to

3.50%. Additionally, starting from March 1, 2023, due to the adjustment of base interest rate, the borrowing rate was adjusted to 4.50% from 3.50%.

Note 3: From April 22, 2022 to December 31, 2026, with monthly interest and principal repayments.

Note 4: It refers to Second Draw Paycheck Protection Program ("PPP") applied from banks with the loan period from February 2, 2021 to February 2, 2026. The PPP loan must be used for operating expenses, such as salary, rent and other expenses as specified in the loan agreement in order to apply for loan forgiveness within 10 months after the covered period. The Company's subsidiary, D-Tech Optoelectronics, Inc. had received the approval of the loan forgiveness from SBA on April 27, 2022 and $5,408 was recognized as income from PPP (recognized as "Other income") in the six-month period ended June 30, 2022.

Note 5: Please refer to Note 8 for the information of the Group's assets pledged for secured borrowings.

(14) Pension plan

A. The Group's US subsidiary has established a 401(K) pension plan (the "Plan") covering substantially all employees. The Plan provides voluntary salary reduction contributions by eligible participants in accordance with Section 401(K) of the Internal Revenue Code (IRC), as well as discretionary matching contributions below 15% of employees' salaries from the Company's subsidiary to its employees' individual pension accounts.

B. The Group's Taiwan 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's Taiwan 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.

C. The pension costs under the above pension plans of the Group for the three-month and six-month periods ended June 30, 2023 and 2022 amounted to $4,930, $3,827, $9,397 and $8,001, respectively.

(15) Share-based payment-employee compensation plan

A. Through June 30, 2023, December 31, 2022 and June 30, 2022, the Group's share-based payment transactions are set forth below:

Type of arrangement	Grant date	Quantity granted	Contract period	Vesting condition
Employee stock options	April 2013	1,538,000 shares	10 years	(Note 1)
Employee stock options	October 2013	538,000 shares	10 years	(Note 1)
Employee stock options	February 2015	652,200 shares	10 years	(Note 1)
Employee stock options	July 2015	40,000 shares	10 years	(Note 1)
Employee stock options	August 2016	895,000 shares	10 years	(Note 1)
Employee stock options	November 2016	34,000 shares	10 years	(Note 1)
Employee stock options	February 2017	15,000 shares	10 years	(Note 1)
Employee stock options	August 2017	215,000 shares	10 years	(Note 1)
Employee stock options	January 2018	13,000 shares	10 years	(Note 1)
Employee stock options	February 2018	355,000 shares	10 years	(Note 1)
Employee stock options	August 2018	27,000 shares	10 years	(Note 1)
Employee stock options	March 2019	578,000 shares	10 years	(Note 1)
Employee stock options	August 2019	40,000 shares	10 years	(Note 1)
Employee stock options	March 2020	250,000 shares	10 years	(Note 1)
Employee stock options	August 2020	3,000 shares	10 years	(Note 1)
Employee stock options	November 2020	6,000 shares	10 years	(Note 1)
Employee stock options	March 2021	820,000 shares	10 years	(Note 1)
Employee stock options	February 2022	454,000 shares	10 years	(Note 1)
Employee stock options	August 2022	23,000 shares	10 years	(Note 1)
Employee stock options	November 2022	36,000 shares	10 years	(Note 1)
Employee stock options	February 2023	40,000 shares	10 years	(Note 1)
Employee stock options	May 2023	75,000 shares	10 years	(Note 1)
Restricted stocks to employees (Note 3)	March 2021	427,000 shares	2 years	(Note 2)
Restricted stocks to employees (Note 3)	February 2022	445,000 shares	2 years	(Note 2)
Restricted stocks to employees (Note 3)	February 2023	483,000 shares	2 years	(Note 2)

Note 1: Some employee stock options shall be vested and become exercisable up to 50% of the shares after fulfilling two years of service, and in accordance with the agreement, the remaining 50% of such options will be vested ratably in equal installments as of the last day of each of the succeeding 24 months.

Note 2: Some restricted stocks to employees shall be vested up to 50% of the shares after one year of service, and the remaining 50% of such shares to be vested after fulfilling two years of service.

Note 3: The restricted stocks to employees are restricted from transferring within vesting period, but are allowed for voting rights and rights to receive dividends. The Company will recover restricted stocks at no consideration and cancel registration if employees resign or die not due to occupational hazards. However, employees do not need to return dividends already received.

B. Details of the employee stock options are set forth below:

	Six-month period ended June 30, 2023			
	No. of options	Currency	Weighted average exercise price	
				(in dollars)
Options outstanding at beginning of the period	3,454,120	NTD	$	53.52
Options granted	115,000	NTD		35.10
Options exercised	(2,667)	NTD		11.10
Options forfeited	(289,167)	NTD		32.31
Options outstanding at end of the period	3,277,286	NTD		54.78
Options exercisable at end of the period	2,396,994	NTD		58.48

	Six-month period ended June 30, 2022			
	No. of options	Currency	Weighted average exercise price	
				(in dollars)
Options outstanding at beginning of the period	3,163,120	NTD	$	55.68
Options granted	454,000	NTD		45.90
Options exercised	(50,000)	NTD		31.20
Options forfeited	(148,000)	NTD		52.59
Options outstanding at end of the period	3,419,120	NTD		53.76
Options exercisable at end of the period	2,132,245	NTD		57.26

C. The weighted-average stock price of stock options at exercise dates for six-month periods ended June 30, 2023 and 2022 was $37.82 (in dollars) and $44.91 (in dollars), respectively.

D. As of June 30, 2023, December 31, 2022 and June 30, 2022, the range of exercise prices of stock options outstanding are as follows:

		June 30, 2023		
Grant date	Expiry date	No. of Shares	Currency	Stock options exercise price (in dollars)
October 2013	October 2023	7,917	NTD	$ 17.30
February 2015	February 2025	223,369	NTD	39.30
August 2016	August 2026	601,000	NTD	62.70
November 2016	November 2026	8,000	NTD	61.40
February 2017	February 2027	15,000	NTD	54.50
August 2017	August 2027	200,000	NTD	63.40
January 2018	January 2028	8,000	NTD	82.70
February 2018	February 2028	315,000	NTD	79.70
August 2018	August 2028	11,000	NTD	61.00
March 2019	March 2029	485,000	NTD	58.20
August 2019	August 2029	25,000	NTD	56.80
March 2020	March 2030	180,000	NTD	43.80
August 2020	August 2030	3,000	NTD	52.50
November 2020	November 2030	6,000	NTD	47.00
March 2021	March 2031	616,000	NTD	48.70
February 2022	February 2032	399,000	NTD	45.90
August 2022	August 2032	23,000	NTD	39.85
November 2022	November 2032	36,000	NTD	35.05
February 2022	February 2033	40,000	NTD	38.65
May 2023	May 2033	75,000	NTD	33.20
		3,277,286		

		December 31, 2022		
Grant date	Expiry date	No. of Shares	Currency	Stock options exercise price
				(in dollars)
April 2013	April 2023	140,834	NTD	$ 11.10
October 2013	October 2023	7,917	NTD	17.30
February 2015	February 2025	223,369	NTD	39.30
August 2016	August 2026	626,000	NTD	62.70
November 2016	November 2026	8,000	NTD	61.40
February 2017	February 2027	15,000	NTD	54.50
August 2017	August 2027	200,000	NTD	63.40
January 2018	January 2028	8,000	NTD	82.70
February 2018	February 2028	315,000	NTD	79.70
August 2018	August 2028	14,000	NTD	61.00
March 2019	March 2029	515,000	NTD	58.20
August 2019	August 2029	25,000	NTD	56.80
March 2020	March 2030	210,000	NTD	43.80
August 2020	August 2030	3,000	NTD	52.50
November 2020	November 2030	6,000	NTD	47.00
March 2021	March 2031	654,000	NTD	48.70
February 2022	February 2032	424,000	NTD	45.90
August 2022	August 2032	23,000	NTD	39.85
November 2022	November 2032	36,000	NTD	35.05
		3,454,120		

		June 30, 2022		
Grant date	Expiry date	No. of Shares	Currency	Stock options exercise price
				(in dollars)
April 2013	April 2023	140,834	NTD	$ 11.10
October 2013	October 2023	7,917	NTD	17.30
February 2015	February 2025	223,369	NTD	39.30
August 2016	August 2026	626,000	NTD	62.70
November 2016	November 2026	8,000	NTD	61.40
February 2017	February 2027	15,000	NTD	54.50
August 2017	August 2027	200,000	NTD	63.40
January 2018	January 2028	8,000	NTD	82.70
February 2018	February 2028	315,000	NTD	79.70
August 2018	August 2028	14,000	NTD	61.00
March 2019	March 2029	515,000	NTD	58.20
August 2019	August 2029	25,000	NTD	56.80
March 2020	March 2030	210,000	NTD	43.80
August 2020	August 2030	3,000	NTD	52.50
November 2020	November 2030	6,000	NTD	47.00
March 2021	March 2031	668,000	NTD	48.70
February 2022	February 2032	434,000	NTD	45.90
		3,419,120		

E. Details of the restricted stocks to employees are set forth below:

Employee restricted stocks	2023	2022
	No. of shares	No. of shares
Outstanding at beginning of the period	575,000	587,500
Granted (Notes 1 and 2)	483,000	445,000
Vested	(366,500)	(375,000)
Retired (cancelled)	-	(50,500)
Retired (uncancelled)	(12,500)	(5,500)
Outstanding at end of the period	679,000	601,500

Note 1: For the restricted stocks granted with the compensation cost accounted for using the fair value method, the fair values on the grant date are calculated based on the closing price on the grant date.

Note 2: The fair value of restricted stocks granted in February 2023 and 2022 was $38.65 (in dollars) and $45.90 (in dollars), respectively.

F. For the stock options granted with the compensation cost accounted for using the fair value method, their fair value on the grant date is estimated using the Black-Scholes option-pricing model. The parameters used in the estimation of the fair value are as follows:

Type of arrangement	Grant date	Currency	Fair value	Exercise price	Expected price volatility	Expected option period	Expected dividend yield rate	Risk-free interest rate	Weighted average fair value
			(in dollars)	(in dollars)		(years)			(in dollars)
Employee stock options	February 2022	NTD	$ 46.41	$ 45.90	17.87%	6.26	1.00%	0.95%	$ 18.37
Employee stock options	August 2022	NTD	37.42	39.85	46.86%	6.26	1.00%	1.65%	18.99
Employee stock options	November 2022	NTD	37.80	35.05	24.25%	6.26	1.00%	1.28%	15.46
Employee stock options	February 2023	NTD	38.55	38.65	15.12%	6.26	1.00%	1.20%	11.63
Employee stock options	May 2023	NTD	34.96	33.20	19.10%	6.26	1.00%	1.16%	12.61

G. Expenses incurred on share-based payment transactions are shown below:

	Three-month periods ended June 30,	
	2023	2022
Equity-settled	$ 7,161	$ 8,864

	Six-month periods ended June 30,	
	2023	2022
Equity-settled	$ 9,218	$ 16,794

(16) Common stock

A. As of June 30, 2023, the Company's paid-in capital was $1,113,107, consisting of 111,310,734 shares with a par value of $10 (in dollars) per share.

Movements in the number of the Company's ordinary shares outstanding are as follows:

Unit: Numbers of shares

	2023	2022
Outstanding ordinary shares at January 1	110,810,067	110,397,567
Exercise of employee stock options	2,667	50,000
Issuance of restricted stocks to employees	483,000	445,000
Retirement of restricted stocks to employees	-	(50,500)
Restricted stocks retrieved from employees and to be cancelled	(12,500)	(5,500)
Outstanding ordinary shares at June 30	111,283,234	110,836,567
Restricted stocks retrieved from employees	27,500	5,500
Issued ordinary shares at June 30	111,310,734	110,842,067

B. On June 5, 2019, the shareholders adopted a resolution to reserve 1,000,000 shares for the purpose of granting employee restricted stocks with par value of $10 (in dollars) per shares, with the effective date filed with the regulator. The subscription price is $0 (in dollar) per share. The employee restricted stocks issued are subject to certain transfer restrictions before their vesting conditions are met. Other than these restrictions, the rights and obligations of these shares issued are the same as other issued ordinary shares. On March 16, 2020, the Board of Directors resolved to grant 518,000 employee restricted stocks. As of June 30, 2023, the Company had retrieved 82,500 employee restricted stocks in total due to the employees' resignation, and the retrieved shares have been retired.

C. On June 5, 2020, the shareholders adopted a resolution to reserve 1,000,000 shares for the purpose of granting employee restricted stocks with par value of $10 (in dollars) per shares, with the effective date filed with the regulator. The subscription price is $0 (in dollar) per share. The employee restricted stocks issued are subject to certain transfer restrictions before their vesting conditions are met. Other than these restrictions, the rights and obligations of these shares issued are the same as other issued ordinary shares. On March 19, 2021, the Board of Directors resolved to grant 427,000 employee restricted stocks. As of June 30, 2023, the Company had retrieved 78,500 employee restricted stocks in total due to the employees' resignation, and 71,000 stocks have been retired. Additionally, the remaining 7,500 retrieved stocks as of August 1, 2023 have not been retired.

D. On July 2, 2021, the shareholders adopted a resolution to reserve 1,000,000 shares for the purpose of granting employee restricted stocks with par value of $10 (in dollars) per shares, with the effective date filed with the regulator. The subscription price is $0 (in dollar) per share. The employee restricted stocks issued are subject to certain transfer restrictions before their vesting conditions are met. Other than these restrictions, the rights and obligations of these shares issued are the same as other issued ordinary shares. On February 23, 2022, the Board of Directors resolved to grant 445,000 employee restricted stocks. As of June 30, 2023 the Company had retrieved 43,000 employee restricted stocks in total due to the employees' resignation and 27,000 stocks have been retired. Additionally, the remaining 16,000 retrieved stocks as of August 1, 2023 have not been retired.

E. On May 20, 2022, the shareholders adopted a resolution to reserve 1,000,000 shares for the purpose of granting employee restricted stocks with par value of $10 (in dollars) per shares, with the effective date filed with the regulator. The subscription price is $0 (in dollar) per share. The employee restricted stocks issued are subject to certain transfer restrictions before their vesting conditions are met. Other than these restrictions, the rights and obligations of these shares issued are the same as other issued ordinary shares. On February 20, 2023, the Board of Directors resolved to grant 483,000 employee restricted stocks. As of June 30, 2023, the Company had retrieved 4,000 employee restricted stocks in total due to the employees' resignation. Additionally, the 4,000 retireved stocks as of August 1, 2023 have not been retired.

F. The Company's GDRs began trading on the Luxembourg Stock Exchange on January 21, 2019. The actual number of units of GDRs for this offering was 1,600,000 and each GDR represents five of the Company's ordinary shares, which in the aggregate representing 8,000,000 ordinary shares. As of June 30, 2023, there was no outstanding GDRs.

The terms of GDR are as follows:

(a)Voting rights

The voting right of GDR holders may, pursuant to the Depositary Agreement and the relevant laws and regulations of the R.O.C., exercise the voting rights pertaining to the underlying common shares represented by the GDRs.

(b)Dividends, stocks warrant and other rights

GDR holders and common shareholders are all entitled to receive dividends, stock warrants and other rights.

(17) Capital surplus

Capital surplus can be used to cover accumulated deficit or distributed as dividend as proposed by the Board of Directors and resolved by the shareholders.

	2023					
	Share premium	Employee stock options	Employee restricted stocks	Recognized changes in equity of associates	Others	Total
At January 1	$ 1,982,312	$ 77,389	$ 26,476	$ 696,464	$ 42,502	$ 2,825,143
Compensation costs of share-based payment	-	1,301	-	-	-	1,301
Issuance of restricted stocks	15,291	-	(1,444)	-	-	13,847
Exercise of employee stock options	52	(49)	-	-	-	3
Restricted stocks to employees vested	-	(5,562)	-	-	3,027	(2,535)
Capital surplus used to compensate accumulated deficits	-	-	-	(229,734)	-	(229,734)
Recognized changes in equity of associates	-	-	-	142,729	-	142,729
At June 30	$ 1,997,655	$ 73,079	$ 25,032	$ 609,459	$ 45,529	$ 2,750,754

	2022					
	Share premium	Employee stock options	Employee restricted stocks	Recognized changes in equity of associates	Others	Total
At January 1	$1,969,083	$ 68,963	$ 28,133	$ 833,545	$ 37,605	$ 2,937,329
Compensation costs of share-based payment	-	12,946	-	-	-	12,946
Issuance of restricted stocks to employees	-	-	16,039	-	-	16,039
Retirement of restricted stocks to employees	-	-	(2,928)	-	-	(2,928)
Exercise of employee stock options	3,492	(2,425)	-	-	-	1,067
Restricted stocks to employees vested	14,185	-	(14,185)	-	-	-
Employee stock option forfeited	-	(4,425)	-	-	4,425	-
Recognized changes in equity of associates	-	-	-	(210,820)	-	(210,820)
Treasury stock retired	(4,448)	-	-	-	-	(4,448)
At June 30	$1,982,312	$ 75,059	$ 27,059	$ 622,725	$ 42,030	$ 2,749,185

(18) Retained earnings

A. Under the Company’s Articles of Incorporation, the current year’s earnings, if any, shall first be used to pay all taxes and offset losses incurred in previous years and then a special reserve as required by the applicable securities authority under the applicable public company rules in Taiwan. After combining accumulated undistributed earnings in the previous years and setting aside a certain amount of remaining profits of such financial year as a reserve or reserves for development purposes as the Board of Directors may from time to time deem appropriate, subject to the compliance with the Cayman Islands Companies Law, the Company shall distribute no less than 10% of the remaining profit as dividends to the shareholders. The stipulates distribution of earnings by way of cash dividends should be approved by the Company’s Board of Directors and reported to the Company’s shareholders in its meeting.

B. The Company’s dividend policy is as follows: As the Company operates in a capital intensive industry and in the stable growth stage, the residual dividend policy is adopted taking into consideration the Company’s operation scale, cash flow demand and future expansion plans, and cash dividends shall account for at least 10% of the total dividends distributed.

C. Considering the Company’s future operating development, the Company’s shareholders at the meeting on May 20, 2022 resolved not to distribute dividends from the appropriations of 2021 earnings.

On June 6, 2023, after considering the Company's future operating development, the shareholders' meeting resolved to use capital surplus of $229,734 to compensate the deficits in 2022 deficit compensation proposal.

Information about the appropriations of earnings resolved by the shareholders will be posted in the "Market Observation Post System" at the website of the Taiwan Stock Exchange.

(19) Other equity interest

	2023			
	Currency translation differences	Share of other comprehensive income (loss) of subsidiaries, associate and joint ventures accounted for using equity method, financial statements translation differences of foreign operations	Unearned employee compensation	Total
At January 1	$ 127,150	($ 129,588)	($ 7,321)	($ 9,759)
Currency translation differences				
-Group	42,676	(1,687)	-	40,989
-Group- transfer to net income from disposal of investment	-	657	-	657
-Associates	-	(63,023)	-	(63,023)
-Associates- transfer to net loss from disposal of investments	-	(2,413)	-	(2,413)
Compensation costs of share-based payment	-	-	10,452	10,452
Issuance of restricted stocks to employees	-	-	(18,677)	(18,677)
At June 30	$ 169,826	($ 196,054)	($ 15,546)	($ 41,774)

	2022			
	Currency translation differences	Share of other comprehensive income (loss) of subsidiaries, associate and joint ventures accounted for using equity method, financial statements translation differences of foreign operations	Unearned employee compensation	Total
At January 1	($ 328,568)	$ 79,957	($ 5,432)	($ 254,043)
Currency translation differences				
-Group	309,081	(9,195)	-	299,886
-Associates	-	(105,368)	-	(105,368)
-Associates- transfer to net loss from disposal of investments	-	302	-	302
Compensation costs of share-based payment	-	-	3,848	3,848
Issuance of restricted stocks to employees	-	-	(20,489)	(20,489)
Retirement of restricted stocks to employees	-	-	3,718	3,718
At June 30	($ 19,487)	($ 34,304)	($ 18,355)	($ 72,146)

(20) Operating revenue

	Three-month periods ended June 30,	
	2023	2022
Revenue from contracts with customers	$ 322,231	$ 339,759

	Six-month periods ended June 30,	
	2023	2022
Revenue from contracts with customers	$ 592,712	$ 637,244

A. Disaggregation of revenue from contracts with customers

The Group derives revenue from the transfer of goods at a point in time in the following major product lines and geographical regions:

	Three-month period ended June 30, 2023		
	Sales revenue	Royalty revenue	Total
United States	$ 125,053	$ -	$ 125,053
China	105,277	1,142	106,419
Taiwan	8,320	1	8,321
Others	82,438	-	82,438
	$ 321,088	$ 1,143	$ 322,231

	Three-month period ended June 30, 2022		
	Sales revenue	Royalty revenue	Total
China	$ 128,861	$ -	$ 128,861
United States	126,489	-	126,489
Taiwan	6,618	162	6,780
Others	77,629	-	77,629
	$ 339,597	$ 162	$ 339,759

	Six-month period ended June 30, 2023		
	Sales revenue	Royalty revenue	Total
United States	$ 263,110	$ -	$ 263,110
China	172,542	2,662	175,204
Taiwan	15,730	96	15,826
Others	138,572	-	138,572
	$ 589,954	$ 2,758	$ 592,712

	Six-month period ended June 30, 2022		
	Sales revenue	Royalty revenue	Total
China	$ 266,224	$ -	$ 266,224
United States	242,089	-	242,089
Taiwan	7,843	386	8,229
Others	120,702	-	120,702
	$ 636,858	$ 386	$ 637,244

B. Contract liabilities

The Group has recognized the following revenue-related contract liabilities:

	June 30, 2023	December 31, 2022	June 30, 2022	January 1, 2022
Contract liabilities – advance sales receipts	$ 6,788	$ 12,516	$ 23,619	$ 21,752

Revenue recognized that was included in the contract liability balance at the beginning of the periods:

	Three-month periods ended June 30,	
	2023	2022
Contract liabilities – advance sales receipts	$ 2,400	$ 6,795

	Six-month periods ended June 30,	
	2023	2022
Contract liabilities – advance sales receipts	$ 7,267	$ 15,922

(21) Other gains and losses

	Three-month periods ended March 31,	
	2023	2022
Gain on disposal of property, plant and equipment	$ -	$ 4,603
Loss on subsidiary liquidation	(105)	-
Gain (loss) on disposal of investments	2,413	(302)
Net currency exchange losses	(915)	(7,212)
Other losses	(2,857)	(1,296)
	($ 1,464)	($ 4,207)

	Six-month periods ended June 30,	
	2023	2022
Gain on disposal of property, plant and equipment	$ -	$ 4,603
Loss on subsidiary liquidation	(105)	-
Gain (loss) on disposal of investments	2,413	(302)
Net currency exchange losses	(461)	(22,114)
Other losses	(7,351)	(5,250)
	($ 5,504)	($ 23,063)

(22) Finance costs

	Three-month periods ended June 30,	
	2023	2022
Interest expense	$ 4,402	$ 2,410
Leased liabilities - Interest expense	187	23
	$ 4,589	$ 2,433

	Six-month periods ended June 30,	
	2023	2022
Interest expense	$ 8,038	$ 4,196
Leased liabilities - interest expense	391	71
	$ 8,429	$ 4,267

(23) Expenses by nature

	Three-month periods ended June 30,	
	2023	2022
Employee benefit expense	$ 174,516	$ 158,189
Depreciation charges on property, plant and equipment and right-of-use assets	$ 33,858	$ 29,878
Amortization charges on intangible assets	$ 1,760	$ 1,739

	Six-month periods ended June 30,	
	2023	2022
Employee benefit expense	$ 340,123	$ 315,107
Depreciation charges on property, plant and equipment and right-of-use assets	$ 66,924	$ 57,372
Amortization charges on intangible assets	$ 3,598	$ 3,302

(24) Employee benefit expense

	Three-month periods ended June 30,	
	2023	2022
Wages and salaries	$ 147,836	$ 131,015
Compensation costs of share-based payment	7,161	8,864
Insurance expenses	14,357	13,759
Pension costs	4,930	3,827
Other personnel expenses	232	724
	$ 174,516	$ 158,189

	Six-month periods ended June 30,	
	2023	2022
Wages and salaries	$ 291,759	$ 262,602
Compensation costs of share-based payment	9,218	16,794
Insurance expenses	29,421	26,726
Pension costs	9,397	8,001
Other personnel expenses	328	984
	$ 340,123	$ 315,107

A. According to the Articles of Incorporation of the Company, when distributing earnings, an amount equal to the ratio of distributable profit of the current year, after covering accumulated losses, shall be distributed as employees’ compensation and directors’ remuneration. The ratio shall not be higher than 15% and lower than 5% for employees’ compensation and shall not be higher than 2% for directors’ remuneration.

B. For the three-month and six-month periods ended June 30, 2023 and 2022, the Company did not accrue employees’ compensation and directors’ remuneration, due to net loss before tax.

C. Information about employees’ compensation and directors’ remuneration of the Company as proposed by the Board of Directors and resolved by the shareholders will be posted in the "Market Observation Post System" at the website of the Taiwan Stock Exchange.

(25) Income tax

A. Income tax expense (benefit)

Components of income tax expense (benefit)

	Three-month periods ended June 30, 2023	Three-month periods ended June 30, 2022
Current tax:		
Current tax on profit for the period	$ 33	$ 1,461
Prior year income tax over estimation	8	-
Total current tax	41	1,461
Deferred tax:		
Origination and reversal of temporary differences	-	(4,445)
Total deferred tax	-	(4,445)
Income tax expense (benefit)	$ 41	($ 2,984)

	Six-month periods ended June 30, 2023	Six-month periods ended June 30, 2022
Current tax:		
Current tax on profit for the period	$ 33	$ 1,806
Prior year income tax over estimation	8	-
Total current tax	41	1,806
Deferred tax:		
Origination and reversal of temporary differences	-	(7,334)
Total deferred tax	-	(7,334)
Income tax expense (benefit)	$ 41	($ 5,528)

B. Through June 30, 2023, the assessment of income tax returns of the Taiwan subsidiaries are as follows:

Name of subsidiary	Assessment of income tax returns
Global Device Technologies, Co., Ltd.	Assessed and approved up to 2021
D-Tech Optoelectronics (Taiwan) Corporation	Assessed and approved up to 2021

(26) Losses per share

Details of ordinary stocks, losses per share are as follows:

	Three-month periods ended June 30, 2023		
	Amount after tax	Weighted average outstanding stocks (in thousand of shares)	Losses per share (in dollars)
Basic losses per share			
Losses attributable to ordinary shareholders of the parent (Note)	($ 265,988)	$ 110,604	($ 2.41)

	Three-month periods ended June 30, 2022		
	Amount after tax	Weighted average outstanding stocks (in thousand of shares)	Losses per share (in dollars)
Basic losses per share			
Losses attributable to ordinary shareholders of the parent (Note)	($ 152,464)	109,920	($ 1.39)

	Six-month period ended June 30, 2023		
	Amount after tax	Weighted average outstanding stocks (in thousand of shares)	Losses per share (in dollars)
Basic losses per share			
Losses attributable to ordinary shareholders of the parent (Note)	($ 559,469)	110,339	($ 5.07)

	Six-month period ended June 30, 2022		
	Amount after tax	Weighted average outstanding stocks (in thousand of shares)	Losses per share (in dollars)
Basic losses per share			
Losses attributable to ordinary shareholders of the parent (Note)	($ 323,126)	110,026	($ 2.94)

Note: The employees' compensation, employee stock options and employee restricted stocks have anti-dilutive effect for the three-month and six-month periods ended June 30, 2023 and 2022, as a result, would not be considered while calculating the diluted EPS.

(27) Supplemental cash flow information

A. Investing activities with partial cash payments:

	Six-month periods ended June 30,	
	2023	2022
Acquisition of property, plant and equipment	$ 81,165	$ 95,367
Add: Ending balance of prepayments for equipment (Note 1)	36,485	72,598
Less: Beginning balance of prepayments for equipment (Note 1)	(67,556)	(41,431)
Less: Ending balance of payables for equipment	(10,234)	(16,678)
Add: Beginning balance of payables for equipment	5,775	6,901
Cash paid	$ 45,635	$ 116,757

Note 1：Shown as “Other non-current assets”.

	Six-month periods ended June 30,	
	2023	2022
Addition of investments accounted for using the equity method	$ -	$ 1,043,899
Add: Opening balance of payable for investment (Note 2)	191,137	-
Less: Ending balance of payable for investment (Note 2)	(199,000)	-
Less: Net exchange differences	7,863	-
Cash paid	$ -	$ 1,043,899

Note 2：Shown as “Other payables”.

B. Investing activities with partial cash receivable:

	Six-month periods ended June 30,	
	2023	2022
Proceeds from disposal of property, plant and equipment	$ -	$ 5,314
Add: Opening balance of receivables from disposal of equipment (Note)	5,682	15,689
Less: Ending balance of receivables from disposal of equipment (Note)	-	-
Less: Net exchange differences	(30)	-
	$ 5,652	$ 21,003

Note：Shown as “Other receivables - related parties”.

C. On November 1, 2022, the Company's Board of Directors resolved to dissolve and liquidate the subsidiary, GCOM Semiconductor Co., Ltd. The Company also obtained the completion letter of liquidation issued by the court on May 31, 2023, and received the remaining investment amount of $49,519 on June 15, 2023, and recognized the liquidation loss of $105. The relevant assets and liabilities of the subsidiary on the date of liquidation are as follows:

	May 31, 2023
Carrying amount of the assets and liabilities of the subsidiary	
Cash	$ 49,519
Total net assets	$ 49,519
Shareholding ratio on liquidation date	100%
Book value on liquidation date	$ 49,519

(28) Changes in liabilities from financing activities

	Short-term borrowings	Lease liabilities	Long-term borrowings (including current portion)	Liabilities from financing activities
At January 1, 2023	$ 20,000	$ 24,238	$ 372,387	$ 416,625
Changes in cash flow from financing activities	-	(4,400)	(21,359)	(25,759)
Interest expense	-	391	-	391
Interest paid	-	(391)	-	(391)
Net exchange differences	-	254	4,801	5,055
At June 30, 2023	$ 20,000	$ 20,092	$ 355,829	$ 395,921

	Short-term borrowings	Lease liabilities	Long-term borrowings (including current portion)	Liabilities from financing activities
At January 1, 2022	$ 20,000	$ 3,393	$ 198,965	$ 222,358
Changes in cash flow from financing activities	-	(3,246)	166,817	163,571
Interest expense	-	71	-	71
Interest paid	-	(71)	-	(71)
Forgiveness of Paycheck Protection Plan	-	-	(5,408)	(5,408)
Net exchange differences	-	138	20,285	20,423
At June 30, 2022	$ 20,000	$ 285	$ 380,659	$ 400,944

7. RELATED PARTY TRANSACTIONS

(1) Names of related parties and relationship

Names of related parties	Relationship with the Company
Unikorn Semiconductor Corporation (“Unikorn”)	The investee company accounted for using the equity method by the Company
Changzhou Chemsemi Co., Ltd. (“Chemsemi”)	The investee company accounted for using the equity method by the Company
Shanghai Galasemi Co., Ltd. (“Shanghai Galasemi”)	The investee company accounted for using the equity method by the Company
Changzhou Galasemi Co., Ltd. (“Changzhou Galasemi”)	The subsidiary wholly owned by the investee company accounted for using the equity method by the Company

(2) Significant related party transactions and balances

A. Operating revenue:

	Three-month periods ended June 30,	
	2023	2022
Sales of goods:		
Changzhou Galasemi	$ 1,752	$ 5,773
Royalty revenue:		
Changzhou Galasemi	$ 1,142	$ -

	Six-month periods ended June 30,	
	2023	2022
Sales of goods:		
Changzhou Galasemi	$ 6,029	$ 12,369
Royalty revenue:		
Changzhou Galasemi	$ 2,662	$ -

B. Purchases:

	Three-month periods ended March 31,	
	2023	2022
Purchases of goods:		
Unikorn	$ 1	$ -

	Six-month periods ended June 30,	
	2023	2022
Purchases of goods:		
Unikorn	$ 165	$ -

C. Receivables from related parties:

	June 30, 2023	December 31, 2022	June 30, 2022
Accounts receivable:			
Changzhou Galasemi	$ 2,853	$ 2,958	$ 11,037
Other receivables－ Sales of machinery and equipment:			
Changzhou Galasemi	-	5,682	-
Other receivables－Other:			
Changzhou Galasemi	-	302	42
	$ 2,853	$ 8,942	$ 11,079

Accounts receivables arise mainly from sale transactions. Other receivables arise mainly from equipment test services, and sales of machinery and miscellaneous equipment. The accounts receivable and other receivables are unsecured in nature and bear no interest.

D. Payables to related parties:

	June 30, 2023	December 31, 2022	June 30, 2022
Other payables:			
Chemsemi	$ -	$ -	$ 5,087
Changzhou Galasemi	1,350	-	-
Unikorn	28,039	2,705	153
	$ 29,389	$ 2,705	$ 5,240

E. Property transactions:

(a) The Company participated in the investee accounted for using equity method – Unikorn's increase of common stocks for cash in March 2022. The details of the transaction are as follows:

Transaction company	Accounts	No. of shares	Objects	Six-month period ended June 30, 2022 Consideration
Unikorn	Investments accounted for using equity method	30,000,000	Common Stocks	$ 600,000

Three-month and six-month periods ended June 30, 2023, and three-month period ended June 30, 2022: None.

(b) The Company participated in the investee accounted for using equity method – Chemsemi's increase of equity for cash in February 2022. The details of the transaction are as follows:

Transaction company	Accounts	No. of shares	Objects	Six-month period ended June 30, 2022 Consideration
Chemsemi	Investments accounted for using equity method	Note	Equity of Chemsemi	$ 443,899

Note: Please refer to Note 6(5).

Three-month and six-month periods ended June 30, 2023, and three-month period ended June 30, 2022: None.

F. Other transactions:

Transaction company	Item	Transaction amounts Three-month periods ended June 30, 2023	2022
Unikorn	Outsourcing manufacturing services charges	$ 28,975	$ 13,337
Changzhou Galasemi	Outsourcing manufacturing services charges	1,324	-
		$ 30,299	$ 13,337

Transaction company	Item	Transaction amounts Six-month periods ended June 30, 2023	2022
Unikorn	Outsourcing manufacturing services charges	$ 39,235	$ 19,776
Changzhou Galasemi	Outsourcing manufacturing services charges	1,370	-
		$ 40,605	$ 19,776

(3) Key management compensation

	Three-month periods ended June 30,	
	2023	2022
Salaries and other short-term employee benefits	$ 19,349	$ 26,364
Post-employment benefits	559	603
Compensation costs of share-based payment	1,126	1,399
	$ 21,034	$ 28,366

	Six-month periods ended June 30,	
	2023	2022
Salaries and other short-term employee benefits	$ 46,978	$ 50,535
Post-employment benefits	1,443	1,439
Compensation costs of share-based payment	2,233	3,382
	$ 50,654	$ 55,356

8. PLEDGED ASSETS

As of June 30, 2023, December 31, 2022 and June 30, 2022, the Group’s assets pledged as collateral were as follows:

Assets	June 30, 2023	December 31, 2022	June 30, 2022	Purpose
Investments accounted for using equity method	$ 83,335	$ 94,786	$ -	Guarantee for Equity Transfer Payment
Land	143,400	141,420	136,861	Long-term borrowings
Buildings	73,976	74,302	73,209	Long-term borrowings
Time deposits (Shown as “Other current assets”)	33,653	33,114	32,047	Short-term borrowings
Time deposits (Shown as “Other non-current assets”)	-	300	300	Custom guarantee for imported goods
Refundable deposits (Shown as “Other current asset” and “Other non-current assets”)	2,451	2,582	2,505	Deposits for office rental and waste water treatment

9. SIGNIFICANT CONTINGENT LIABILITIES AND UNRECOGNIZED CONTRACT COMMITMENTS

Capital expenditures contracted for at the balance sheet date but not yet incurred are as follows:

	June 30, 2023	December 31, 2022	June 30, 2022
Property, plant and equipment	$ 44,000	$ 72,564	$ 92,349

10. SIGNIFICANT DISASTER LOSS

None.

11. SIGNIFICANT EVENTS AFTER THE REPORTING PERIOD

None.

12. OTHERS

(1) Capital management

In order to safeguard the Group's ability to adapt to the changes in the industry and to accelerate the new product development, the Company's objective when managing capital is to maintain sufficient financial resources to support the operating capital, capital expenditures, research and development activities, repayment of debts and dividend paid to shareholders, etc.

(2) Financial instruments

A. Financial instruments by category

	June 30, 2023	December 31, 2022	June 30, 2022
Financial assets			
Financial assets measured at fair value through other comprehensive income			
Designation of equity instrument	$ 1,417	$ 1,397	$ 1,352
Financial assets at amortized cost			
Cash and cash equivalents	273,365	442,196	864,552
Accounts receivable (including related parties)	248,107	202,474	261,416
Other receivables (including related parties)	1,784	9,827	1,981
Refundable deposits	2,451	2,582	2,505
Time deposits (over three-month period) (Shown as "Other current assets" and "Other non-current assets")	33,653	33,414	32,347
	$ 560,777	$ 691,890	$ 1,164,153
Financial liabilities			
Financial liabilities at amortized cost			
Short-term borrowings	$ 20,000	$ 20,000	$ 20,000
Accounts payable	31,430	7,810	5,194
Other payables (including related parties)	343,059	303,726	125,512
Long-term borrowings (including current portion)	355,829	372,387	380,659
	$ 750,318	$ 703,923	$ 531,365
Lease liabilities	$ 20,092	$ 24,238	$ 285

B. Financial risk management policies

(a) The Group's activities expose it to a variety of financial risks: market risk (including foreign exchange risk and price risk), credit risk and liquidity risk.

(b) Risk management is carried out by the Group's finance team under policies approved by the Board of Directors. The Group's finance team identifies, evaluates and hedges financial risks in close cooperation with the Group's operating units.

C. Significant financial risks and degrees of financial risks

(a)Market risk

Foreign exchange risk

i. The Group operates internationally and is exposed to foreign exchange risk arising from the transactions of the Company and its subsidiaries used in various functional currency, primarily with respect to the USD and NTD. Foreign exchange risk arises from future commercial transactions and recognized assets and liabilities.

ii. The Group' s businesses involve some non-functional currency operations (the Company' s and certain subsidiaries' functional currency: USD; other certain subsidiaries' functional currency: NTD). The information on assets and liabilities denominated in foreign currencies whose values would be materially affected by the exchange rate fluctuations is as follows:

	June 30, 2023		
	Foreign currency amount (in thousands)	Exchange rate	Book value (NTD)
(Foreign currency: functional currency)			
Financial assets			
Monetary items			
NTD:USD	$ 99,973	0.032	$ 99,973
Non-monetary items			
NTD:USD	616,618	0.032	616,618
RMB:USD	366,328	0.138	1,573,443

	December 31, 2022		
	Foreign currency amount (in thousands)	Exchange rate	Book value (NTD)
(Foreign currency: functional currency)			
Financial assets			
Monetary items			
NTD:USD	$ 116,147	0.033	$ 116,147
Non-monetary items			
NTD:USD	662,368	0.033	662,368
RMB:USD	404,375	0.144	1,784,246

	June 30, 2022		
	Foreign currency amount (in thousands)	Exchange rate	Book value (NTD)
(Foreign currency: functional currency)			
Financial assets			
Monetary items			
NTD:USD	$ 221,755	0.034	$ 221,755
Non-monetary items			
NTD:USD	579,036	0.034	579,036
RMB:USD	387,274	0.149	1,720,446

iii. The total exchange loss, including realized and unrealized, arising from significant foreign exchange variation on the monetary items held by the Group for three-month and six-month periods ended June 30, 2023 and 2022, amounted to $915, $7,212, $461 and $22,114, respectively.

iv. Analysis of foreign currency market risk arising from significant foreign exchange variation:

	Six-month period ended June 30, 2023		
	Sensitivity analysis		
	Degree of variation	Effect on profit or loss	Effect on other comprehensive income
(Foreign currency: functional currency)			
Financial assets			
Monetary items			
NTD:USD	1%	$ 1,000	$ -
Non-monetary items			
NTD:USD	1%	-	6,166
RMB:USD	1%	-	15,734

	Six-month period ended June 30, 2022		
	Sensitivity analysis		
	Degree of variation	Effect on profit or loss	Effect on other comprehensive income
(Foreign currency: functional currency)			
Financial assets			
Monetary items			
NTD:USD	1%	$ 2,218	$ -
Non-monetary items			
NTD:USD	1%	-	5,790
RMB:USD	1%	-	17,204

(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 credit risk of financial assets at amortized cost.

ii. The Group manages their credit risk taking into consideration the entire group's concern. For banks and financial institutions, only independently rated parties with a minimum rating of "BBB+" are accepted. According to the Group's credit policy, each local entity in the Group is responsible for managing and analyzing the credit risk for each of their new clients before standard payment and delivery terms and conditions are offered. Internal risk control assesses the credit quality of the customers, taking into account their financial position, past experience and other factors. Individual risk limits are set based on internal or external ratings in accordance with limits set by the Board of Directors. The utilization of credit limits is regularly monitored.

iii.The Group does not hold any collateral as security for accounts receivable. As of June 30, 2023, December 31, 2022 and June 30, 2022, with no collateral held or other credit enhancements, the maximum exposure to credit risk in respect of the Group's accounts receivable was $ 248,107, $202,474 and $261,416, respectively.

iv.The Group adopts the assumption under IFRS 9, that is, the default occurs when the contract payments are past due over 90 days.

v.The Group adopts the assumption under IFRS 9 to assess whether there has been a significant increase in credit risk on that instrument since initial recognition:

If the contract payment were past due over 30 days, based on the terms, there would be a significant increase in credit risk on that instrument since initial recognition.

vi.The following indicators are used to determine whether the credit impairment of debt instruments has occurred:

a. It becomes probable that the issuer will enter bankruptcy or other financial reorganization due to their financial difficulties;

b. The disappearance of an active market for that financial asset because of financial difficulties.

vii.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.

viii.Estimation of expected credit loss for accounts receivable:

(a)The Group classifies customers' accounts receivable in accordance with credit risk on trade. The Group applies the simplified approach using loss rate methodology to estimate expected credit loss.

(b)The Group used the forecastability of external research report to adjust historical and timely information for a specific period to assess the default possibility of accounts receivable. As of June 30, 2023, December 31, 2022 and June 30, 2022, the loss rate methodology is as follows:

Accounts receivable	Not past due	Less than 90 days past due	Less than 180 days and more than 90 days past due	More than 180 days past due	Total
At June 30, 2023					
Expected loss rate	0%-1%	1%-15%	16%-31%	31%-100%	
Total book value	$226,866	$ 19,407	$ 5,728	$ 23,299	$275,300
Loss allowance	$ -	$ -	$ 3,894	$ 23,299	$ 27,193

Accounts receivable	Not past due	Less than 90 days past due	Less than 180 days and more than 90 days past due	More than 180 days past due	Total
At December 31, 2022					
Expected loss rate	0%-1%	1%-15%	16%-31%	31%-100%	
Total book value	$197,698	$ 32,611	$ -	$ 1,284	$231,593
Loss allowance	$ -	$ 27,835	$ -	$ 1,284	$ 29,119

Accounts receivable	Not past due	Less than 90 days past due	Less than 180 days and more than 90 days past due	More than 180 days past due	Total
June 30, 2022					
Expected loss rate	0%-1%	1%-15%	16%-31%	31%-100%	
Total book value	$221,661	$ 39,755	$ -	$ 1,243	$262,659
Loss allowance	$ -	$ -	$ -	$ 1,243	$ 1,243

(c) Movements in relation to the Group applying the simplified approach to provide loss allowance for accounts receivable was as follows:

	2023
	Accounts receivable
At January 1	$ 29,119
Reversal of impairment loss	(2,290)
Effect of foreign exchange	364
At June 30	$ 27,193

	2022
	Accounts receivable
At January 1	$ 1,157
Effect of foreign exchange	86
At June 30	$ 1,243

viiii. The Group used the forecastability of external research report to adjust historical and timely information for a specific period to assess the default possibility of other receivables (including related parties). As of June 30, 2023, December 31, 2022 and June 30, 2022, the loss rate methodology is as follows:

	Not past due
At June 30, 2023	
Expected loss rate	0%-100%
Total book value	$ 1,784
Loss allowance	$ -

	Not past due
At December 31, 2022	
Expected loss rate	0%-100%
Total book value	$ 9,827
Loss allowance	$ -

	Not past due
At June 30, 2022	
Expected loss rate	0%-100%
Total book value	$ 1,981
Loss allowance	$ -

(c) Liquidity risk

i. Cash flow forecasting is performed by the operating entities of the Group and aggregated by the Group's finance team. The Group's finance team monitors rolling forecasts of the Group's liquidity requirements to ensure the Group has sufficient cash to meet operational needs. Such forecasting takes into consideration the Group's debt financing plans, compliance with internal balance sheet ratio targets and, if applicable, external regulatory or legal requirements.

ii. Surplus cash held by the operating entities over and above balance required for working capital management are managed for investment appropriately. The instruments chosen would be with appropriate maturities or sufficient liquidity to provide sufficient head-room as determined by the above-mentioned forecasts.

iii. The Group has the following undrawn borrowing facilities:

	June 30, 2023	December 31, 2022	June 30, 2022
Floating rate:			
Expiring within one year	$ 6,000	$ 67,420	$ 65,440

Note: The facilities expiring within one year are annual facilities subject to renegotiation before various due dates.

iv. The table below analyzes the Group'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.

	Less than 1 year	Over 1 year
Non-derivative financial liabilities:		
June 30, 2023		
Short-term borrowings	$ 20,120	$ -
Accounts payable	31,430	-
Other payables (including related parties)	343,059	-
Lease liabilities	10,025	11,643
Long-term borrowings (including current portion)	60,522	378,370

	Less than 1 year	Over 1 year
Non-derivative financial liabilities:		
Decemebr 31, 2022		
Short-term borrowings	$ 20,240	$ -
Accounts payable	7,810	-
Other payables (including related parties)	303,726	-
Lease liabilities	9,734	16,451
Long-term borrowings (including current portion)	56,583	385,909

	Less than 1 year	Over 1 year
Non-derivative financial liabilities:		
June 30, 2022		
Short-term borrowings	$ 20,081	$ -
Accounts payable	5,194	-
Other payables	125,512	-
Lease liabilities	285	-
Long-term borrowings (including current portion)	54,759	401,690

(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.

Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3: Unobservable inputs for the asset or liability.

B. Financial instruments not measured at fair value

The carrying amounts measured at amortized cost approximate the fair values of the Group's financial instruments, including cash and cash equivalents, accounts receivable, other receivables, refundable deposits, time deposits (over three-month period), short-term borrowings, current contract liabilities, accounts payable, other payables, lease liabilities, and long-term borrowings (including current portion).

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:

June 30, 2023	Level 1	Level 2	Level 3	Total
Assets				
Recurring fair value measurements				
Financial assets at fair value through other comprehensive income	$ -	$ -	$ 1,417	$ 1,417

December 31, 2022	Level 1	Level 2	Level 3	Total
Assets				
Recurring fair value measurements				
Financial assets at fair value through other comprehensive income	$ -	$ -	$ 1,397	$ 1,397

June 30, 2022	Level 1	Level 2	Level 3	Total
Assets				
Recurring fair value measurements				
Financial assets at fair value through other comprehensive income	$ -	$ -	$ 1,352	$ 1,352

D. The following chart is the movement of Level 3 for six-month period ended June 30, 2023:

	2023	2022
	Equity instrument	Equity instrument
At January 1	$ 1,397	$ -
Acquired in the period	-	1,352
Effect of exchange rate changes	20	-
At June 30	$ 1,417	$ 1,352

E. For the six-month periods ended June 30, 2023 and 2022, there was no transfer into or out from Level 3.

F. The Group's accounting segment 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:

	Fair value at June 30, 2023	Valuation technique	Significant unobservable input	Range (weighted average)	Relationship of inputs to fair value
Non-derivative equity instruments					
Unlisted Company Shares	$ 1,417	Market comparable companies	Discount for lack of marketability	0.7	The higher the discount for lack of marketability, the lower the fair value

	Fair value at December 31, 2022	Valuation technique	Significant unobservable input	Range (weighted average)	Relationship of inputs to fair value
Non-derivative equity instruments					
Unlisted Company Shares	$ 1,397	Last transaction price	Not applicaple	Not applicaple	Not applicaple

	Fair value at June 30, 2022	Valuation technique	Significant unobservable input	Range (weighted average)	Relationship of inputs to fair value
Non-derivative equity instruments					
Unlisted Company Shares	$ 1,352	Last transaction price	Not applicaple	Not applicaple	Not applicaple

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: None.

(e) Acquisition of real estate reaching $300 million or 20% of paid-in capital or more: None.

(f) Disposal of real estate reaching $300 million or 20% of paid-in capital or more: None.

(g) Purchases or sales of goods from or to related parties reaching $100 million or 20% of paid-in capital or more: None.

(h) Receivables from related parties reaching $100 million or 20% of paid-in capital or more: None.

(i) Derivative financial instruments: None.

(j) Significant inter-company transactions: Please refer to table 9.

(2) Information on investees

Names, locations and other information of investee companies (not including investees in mainland China): Please refer to table 10.

(3) Information on investments in mainland China

(a) Information on investments in mainland China: Please refer to table 11.

(b) Significant transactions, either directly or indirectly through a third area, with investee companies in the Mainland Area: Please refer to Note 7.

(4) Major shareholders information

Major shareholders information: Please refer to table 12.

14. SEGMENT INFORMATION

(1) General information

The Company operates business only in a single industry. The Chief Operating Decision-Maker, who allocates resources and assesses performance of the Group as a whole, has identified that the Company has only one reportable operating segment.

(2) Segment information

The segment information provided to the Chief Operating Decision-Maker for the reportable segments is as follows:

	Six-month periods ended June 30,	
	2023	2022
Revenue from external customers	$ 592,712	$ 637,244
Inter-segment revenue	-	-
Total segment revenue	$ 592,712	$ 637,244
Segment loss (Note)	($ 559,428)	($ 328,654)

Note: Exclusive of income tax.

	June 30, 2023	June 30, 2022
Segment assets	$ 4,120,094	$ 4,798,236
Segment liabilities	$ 850,655	$ 619,761

(3) Reconciliation for segment income (loss)

The Company and its subsidiaries engage in a single industry. The Chief Operating Decision-Maker assesses performance and allocates resources of the whole group. The Company is regarded as a single operating segment. Therefore, there is no inter-segment revenue. The revenue from external parties reported to the Chief Operating Decision-Maker is measured in a manner consistent with that in the statement of comprehensive income. The amount provided to the Chief Operating Decision-Maker with respect to total assets is measured in a manner consistent with that in the balance sheet.

GCS HOLDINGS, INC. AND SUBSIDIARIES

Loans to others

Six-month period ended June 30, 2023

Table 1

Expressed in thousands of NTD

(Except as otherwise indicated)

No. (Note 1)	Creditor	Borrower	General ledger account	Is a related party	Maximum outstanding balance during the six-month period ended June 30, 2023 (Note 3)	Balance at June 30, 2023	Actual amount drawn down	Interest rate	Nature of loan (Note 2)	Amount of transactions with the borrower	Reason for short-term financing	Allowance for doubtful accounts	Collateral Item	Collateral Value	Limit on loans granted to a single party (Note 3)	Ceiling on total loans granted (Note 3)	Footnote
1	Global Communication Semiconductors, LLC	D-Tech Optoelectronics, Inc.	Other receivable - related parties	Yes	$ 62,280	$ 62,280	$ 43,596	2%	2	$ -	Operation	$ -	None	$ -	$ 326,272	$ 326,272	-
1	Global Communication Semiconductors, LLC	D-Tech Optoelectronics, Inc.	Other receivable - related parties	Yes	62,280	62,280	-	2%	2	-	Operation	-	None	-	326,272	326,272	Note 4
0	GCS Holdings, Inc.	Global Communication Semiconductors, LLC	Other receivable - related parties	Yes	155,700	155,700	62,280	2%	2	-	Operation	-	None	-	1,307,776	1,307,776	Note 5

Note 1: The numbers filled in for the loans 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: The column of ‘Nature of loan’ shall fill in ‘Business transaction or ‘Short-term financing’.
(1)The business transaction is‘1’.
(2)The short-term financing is‘2’.

Note 3: According to the Company's "Procedures for Lending Funds to Other Parties", the total amount available for lending purpose shall not exceed forty percent (40%) of the net worth of the Company. The total amount for lending to a company having business relationship with the Company shall not exceed the total transaction amount between the parties during the period of twelve (12) months prior to the time of lending (For the purpose of this Procedure, the "transaction amount" shall mean the sales or purchasing amount between the parties, whichever is higher), and shall not exceed ten percent (10%) of the net worth of the Company. The total amount for lending to a company for funding for a short-term period shall not exceed ten percent (10%) of the net worth of the Company. In addition, the total amount lendable to any one borrower shall be no more than thirty percent (30%) of the borrower's net worth, provided that this restriction will not apply to subsidiaries whose voting shares are 100% owned, directly or indirectly, by the Company. The total amount for fund-lending between the subsidiaries whose voting shares are 100% owned, directly or indirectly, by the Company will not be subject to the limit of forty percent (40%) of the net worth of the lending subsidiary.The total amount of lending provided by the Company to any individual entities are limited to forty percent (40%) of the Company's net worth and the term of each loan shall not exceed one year.

Note 4: On November 5, 2021, the Company's Board of Directors resolved to approve Global Communication Semiconductors, LLC to loan to its subsidiary D-Tech Optoelectronics Inc. with the limitation amounted to USD2,000,000, and the actual expenditure was USD0. On November 1, 2022, the Company's Board of Directors resolved to approve Global Communication Semiconductors, LLC to loan to its subsidiary D-Tech Optoelectronics Inc. with the limitation amounted to USD2,000,000, and the actual drawdown was USD1,400,000.

Note 5:On May 2, 2023, the Company's Board of Directors resolved to approve GCS Holdings, Inc. to loan to its subsidiary Global Communication Semiconductors, LLC with the limitation amounted to USD5,000,000, and the actual drawdown was USD2,000,000.

GCS HOLDINGS, INC. AND SUBSIDIARIES

Provision of endorsements and guarantees to others

Six-month period ended June 30, 2023

Table 2

Expressed in thousands of NTD

(Except as otherwise indicated)

Number (Note 1)	Endorser/ guarantor	Party being endorsed/guaranteed: Company name	Party being endorsed/guaranteed: Relationship with the endorser/ guarantor (Note 2)	Limit on endorsements/ guarantees provided for a single party (Note 3)	Maximum outstanding endorsement/ guarantee amount for the six-month period ended June 30, 2023	Outstanding endorsement/ guarantee amount at June 30, 2023	Actual amount drawn down	Amount of endorsements/ guarantees secured with collateral	Ratio of accumulated endorsement/ guarantee amount to net asset value of the endorser/ guarantor company	Ceiling on total amount of endorsements/ guarantees provided (Note 3)	Provision of endorsements/ guarantees by parent company to subsidiary	Provision of endorsements/ guarantees by subsidiary to parent company	Provision of endorsements/ guarantees to the party in mainland China	Footnote
0	GCS Holdings, Inc.	GCS Device Technologies, Co., Ltd.	2	$ 1,307,776	$ 31,140	$ 31,140	$ 20,000	$ 31,140	0.95%	$ 1,307,776	Y	N	N	Note 4

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 seven categories; fill in the number of category each case belongs to:

(1)Having with which it does business.

(2)The endorser/guarantor parent company owns directly or indirectly more than 50% voting shares of the endorsed/guaranteed subsidiary.

(3)The endorser/guarantor parent company owns directly or indirectly more than 50% voting shares of the endorsed/guaranteed company.

(4)The endorsed/guaranteed parent company owns directly or indirectly more than jointly 90% voting shares of the endorser/guarantor company.

(5)Mutual guarantee of the trade or co-contractor as required by the construction contract.

(6)Due to joint venture, mutual shareholder provides endorsements/guarantees to the endorsed/guaranteed company in ratio to its ownership.

(7)Companies in the same industry provide among themselves joint and several security for a performance guarantee of sales contract for pre-construction homes pursuant to the Consumer Protection Act for each other.

Note 3: According to the Company's “Procedures for Endorsement and Guarantee”, the total amount of endorsement/guarantee provided by the Company is limited to forty percent (40%) of the Company's net worth, and the total amount of the guarantee provided by the Company to any individual entity is limited to ten percent (10%) of the Company's net worth. The total amount of the guarantee provided by the Company to any subsidiary whose voting shares are 100% owned, directly or indirectly, by the Company shall notexceed forty percent (40%) of the Company's net worth.

The aggregate total amount of endorsement/guarantee provided by the Company and its subsidiaries shall not exceed fifty percent (50%) of the Company's net worth.

Note 4: The description of the endorsement guarantee for GCS Device Technologies, Co., Ltd. is as follows:

Since the bank loan of GCS Device Technologies, Co., Ltd. will be due and extended in December 2022. On November 1, 2022, the Company's Board of Director resolved in advance to approve a endorsement guarantee amounted to USD1,000,000, as the requirement of the bank loan of GCS Device Technologies, Co., Ltd.. As of June 30, 2023, the actual drawdown is $20,000.

GCS HOLDINGS, INC.

Holding of marketable securities at the end of the period

June 30, 2023

Table 3

Expressed in thousands of NTD

(Except as otherwise indicated)

				As of June 30, 2023				
Securities held by	Marketable securities （Note 1）	Relationship with the securities issuer （Note 2）	General ledger account	Number of shares	Book value （Note 3）	Ownership (%)	Fair value	Footnote （Note 4）
Global Communication Semiconductors, LLC	ElectroPhotonic-IC Inc.	None.	Financial assets at fair value through other comprehensive income	41,617	$ 1,417	0.17%	$ 1,417	None

Note 1: Marketable securities in the table refer to stocks, bonds, beneficiary certificates and other related derivative securities within the scope of IFRS 9 ‘Financial instrument’.

Note 2: Leave the column blank if the issuer of marketable securities is non-related party.

Note 3: Fill in the amount after adjusted at fair value and deducted by accumulated impairment for the marketable securities measured at fair value;

fill in the acquisition cost or amortized cost deducted by accumulated impairment for the marketable securities not measured at fair value. marketable securities not measured at fair value.

GCS HOLDINGS, INC. AND SUBSIDIARIES

Significant inter-company transactions during the reporting period

Six-month period ended June 30, 2023

Table 9

Expressed in thousands of NTD

(Except as otherwise indicated)

				Transaction			
Number (Note 1)	Company name	Counterparty	Relationship (Note 2)	General ledger account	Amount	Transaction terms	Percentage of consolidated total operating revenues or total assets (Note 3)
1	D-Tech Optoelectronics, Inc.	Global Communication Semiconductors, LLC	3	Accounts receivable - related party	$ 2,299	Conducted in the ordinary course of business with terms similar to those with third parties	0.06%
1	D-Tech Optoelectronics, Inc.	Global Communication Semiconductors, LLC	3	Service revenue	5,200	Conducted in the ordinary course of business with terms similar to those with third parties	0.88%
1	D-Tech Optoelectronics, Inc.	Global Communication Semiconductors, LLC	3	Other receivable-related party	43,892	Loans to other	1.07%
2	GCS Device Technologies, Co., Ltd.	Global Communication Semiconductors, LLC	3	Service revenue	2,831	Conducted in the ordinary course of business with terms similar to those with third parties	0.48%
2	GCS Device Technologies, Co., Ltd.	Global Communication Semiconductors, LLC	3	Accounts receivable - related party	1,159	Conducted in the ordinary course of business with terms similar to those with third parties	0.03%
3	Global Communication Semiconductors, LLC	GCS Holdings, Inc.	2	Other receivable-related party	62,315	Loans to other	1.51%

Note 1: The numbers filled in for the transaction company in respect of inter-company transactions are as follows:
(1)Parent company is ‘0’.
(2)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 operating revenues for income statement accounts.

Note 4: Disclosure over 1 million transaction details in this table.

GCS HOLDINGS, INC. AND SUBSIDIARIES

Information on investees (not including investees in mainland China)

Six-month period ended June 30, 2023

Table 10

Expressed in thousands of NTD

(Except as otherwise indicated)

Investor	Investee (Note 1、2)	Location	Main business activities	Initial investment amount: Balance as of June 30, 2023	Initial investment amount: Balance as of December 31, 2022	Shares held as of December 31, 2022: Number of shares	Shares held as of December 31, 2022: Ownership (%)	Shares held as of December 31, 2022: Book value	Net profit (loss) of the investee for six-month period ended June 30, 2023 （Note 2(2)）	Investment income (loss) recognized by the Company for the six-month period ended June 30, 2023 （Note 2(3)）	Footnote
GCS Holdings, Inc.	Global Communication Semiconductors, LLC	Los Angeles, USA	1. Manufacturing of compound semiconductor wafers and foundry related services as well as granting royalty rights for intellectual property 2. Manufacturing and selling of advanced optoelectronics technology products	$ 403,975	$ 403,975	-	100%	$ 815,681	($ 167,040)	($ 167,040)	Subsidiary
GCS Holdings, Inc.	GCS Device Technologies, Co., Ltd.	Taiwan	Product design and research development services	12,000	12,000	-	100%	30,607	792	792	Subsidiary
GCS Holdings, Inc.	GCOM Semiconductor Co., Ltd.	Taiwan	Wholesaling and retailing of electronic components, product design, and outsourcing management services	-	50,000	-	-	-	53	53	Subsidiary、Note 3
GCS Holdings, Inc.	Unikorn Semiconductor Corporation	Taiwan	Specialized OEM of III-V compound semiconductors	1,664,000	1,664,000	131,400,000	39.07%	616,618	(470,550)	(197,721)	Investee company of parent company
Global Communication Semiconductors, LLC	D-Tech Optoelectronics, Inc.	Los Angeles, USA	Developing, manufacturing and selling of photodiodes and avalanche photodiodes for telecommunication systems and data communication networks	393,380	393,380	360,000	100%	107,092	(21,730)	(21,730)	Subsidiary
D-Tech Optoelectronics, Inc.	D-Tech Optoelectronics (Taiwan) Corporation	Taiwan	Manufacturing, retailing and wholesaling of telecommunications devices, and manufacturing and wholesaling of electronic components	89,840	89,840	5,800,000	100%	42,851	(816)	(816)	Subsidiary

Note 1: If a public company is equipped with an overseas holding company and takes consolidated financial report as the main financial report according to the local law rules, it can only disclose the information of the overseas holding company about the disclosure of related overseas investee information.

Note 2: If situation does not belong to Note 1, fill in the columns according to the following regulations:

(1)The columns of 'Investee', 'Location', 'Main business activities', Initial investment amount' and 'Shares held as at June 30, 2023' should fill orderly in the Company's (public company's) information on investees and every directly or indirectly controlled investee's investment information, and note the relationship between the Company (public company) and its investee each (ex. direct subsidiary or indirect subsidiary) in the 'footnote' column.

(2)The 'Net profit (loss) of the investee for the six-month period ended June 30, 2023' column should fill in amount of net profit (loss) of the investee for this period.

(3)The 'Investment income (loss) recognized by the Company for the six-month period ended June 30, 2023' column should fill in the Company (public company) recognized investment income (loss) of its direct subsidiary and recognized investment income (loss) of its investee accounted for under the equity method for this period. When filling in recognized investment income (loss) of its direct subsidiary, the Company (public company) should confirm that direct subsidiary's net profit (loss) for this period has included its investment income (loss) which shall be recognized by regulations.

Note 3: On November 1, 2022, the Company's Board of Directors had been resolved to dissolve and liquidate the subsidiary, GCOM Semiconductor Co., Ltd. The Company also obtained the completion letter of liquidation issued by the court on May 31, 2023, and received the remaining investment amount of $49,519 on June 15, 2023

GCS HOLDINGS, INC.AND SUBSIDIARIES

Information on investments in mainland China

Six-month period ended June 30, 2023

Table 11

Expressed in thousands of NTD

(Except as otherwise indicated)

Investee in mainland China	Main business activities	Paid-in capital	Investment method (Note 1)	Accumulated amount of remittance from Taiwan to mainland China as of June 30, 2023	Amount remitted from Taiwan to mainland China/ Amount remitted back to Taiwan for the six-month period ended June 30, 2023		Accumulated amount of remittance from Taiwan to mainland China as of June 30, 2023	Net income of investee for the six-month period ended June 30, 2023	Ownership held by the Company (direct or indirect)	Investment loss recognized by the Company for the six-month period ended June 30, 2023(Note 5)	Book value of investments in mainland China as of June 30, 2023	Accumulated amount of investment income remitted back to Taiwan as of June 30, 2023	Footnote
					Remitted to mainland China	Remitted back to Taiwan							
Changzhou Chemsemi Co., Ltd.	Manufacturing and selling of semiconductor discrete devices, integrated circuit chips and related products; Designing and services of integrated circuit chips; Manufacturing and selling of optoelectronic device.	$ 2,636,875	2	$ -	$ -	$ -	$ -	($ 679,045)	24.21%	($ 160,667)	$ 1,462,513	$ -	Note 2(2)C、Note 4
Shanghai Galasemi Co., Ltd.	Technical services and development services in the field of optoelectronic technology , and selling of semiconductor discrete devices	294,558	2	-	-	-	-	(16,901)	48.00%	(6,617)	110,930	-	Note 2(2)C、Note 4

Company name	Accumulated amount of remittance from Taiwan to mainland China as of June 30, 2023	Investment amount approved by the Investment Commission of the Ministry of Economic Affairs (MOEA)	Ceiling on investments in mainland China imposed by the Investment Commission of MOEA
Changzhou Chemsemi Co., Ltd.	$ -	$ -	$ -
Shanghai Galasemi Co., Ltd.	-	-	-

Note 1: Investment methods are classified into the following three categories; fill in the number of category each case belongs to:

(1)Directly invest in a company in mainland China.

(2) Through investing in an existing company in the third area (GCS Holdings, Inc.), which then invested in the investee in mainland China.

(3) Others

Note 2: In the 'Investment income (loss) recognized by the Company for June 30, 2023' column:

(1)It should be indicated if the investee was still in the incorporation arrangements and had not yet any profit during this period.

(2)Indicate the basis for investment income (loss) recognition in the number of one of the following three categories:

A.The financial statements that are audited and attested by international accounting firm which has cooperative relationship with accounting firm in R.O.C.

B.The financial statements that are audited and attested by R.O.C. parent company's CPA.

C.The financial statements prepared by the investee.

Note 3: The numbers in this table are expressed in New Taiwan Dollars.

Note 4: The Company was incorporated in Cayman Islands and continously transferred the investments from the Company's U.S. bank account to Changzhou Chemsemi Co., Ltd. and Shanghai Galasemi Co., Ltd.

Note 5: The investment loss recognized by the Company for the six-month period ended June 30, 2023 was inculded the adjustment of unrealized investing gain and losses.

GCS HOLDINGS, INC. AND SUBSIDIARIES

Major shareholders information

June 30, 2023

Table 12

Name of major shareholders	Shares	
	Number of shares	Ownership (%)
ENNOSTAR INC.	9,028,000	8.11%
Harvestar Investment Corp.	9,013,000	8.09%
Calystar Investment Corp.	6,500,000	5.83%

Note: (1)The main shareholder information using total number of ordinary shares and preferred shares held by the shareholders who have completed the company's non-physical registration and delivery (including treasury shares) is more than 5% on the last business day at the end of each quarter. As for the share capital recorded in the company's financial report and the number of shares which the company actually have completed the non-physical registration and delivery, may be different from computational basis.

(2)Above information if belong to shareholders deliver the shares to the trust, will be disclosed by the principal individual account of trustee opened the trust account. As for shareholders who handle the declaration of insider equity holding more than 10% of their shares in accordance with the Securities and Exchange Act, their shareholdings include their shareholdings plus their delivery of trust and shares with the right to make decisions on trust property, etc. Please refer to the information at the website of the Taiwan Stock Exchange for insider equity declaration information.

(3)The preparation principle of this table is to calculate the distribution of the balance of each credit transaction based on the shareholders registered on the book-close day of the extraordinary shareholders' meeting (short-sale securities are not purchased back).

(4)Ownership (%) = The total number of shares held by this shareholder / The total number of shares that have been delivered without physical registration.

(5)The total number of shares that have been delivered without physical registration (including treasury stocks) are 111,310,734 = 111,310,734 (common shares) + 0 (preferred shares).