# LG CHEM, LTD. AND SUBSIDIARIES

**Condensed Consolidated Interim Financial Statements** 

As of September 30, 2023, and December 31, 2022, and for the Three-Month and Nine-Month Periods Ended September 30, 2023 and 2022



# LG Chem, Ltd. and Subsidiaries

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As of September 30, 2023, and December 31, 2022, and for the Three-Month and Nine-Month Periods Ended September 30, 2023 and 2022

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#### Deloitte Anjin LLC

9F., One IFC, 10, Gukjegeumyung-ro, Youngdeungpo-gu, Seoul 07326, Korea

Tel: +82 (2) 6676 1000 Fax: +82 (2) 6674 2114 www.deloitteanjin.co.kr

#### Report on Review of Condensed Consolidated Interim Financial Statements

(English Translation of a Report Originally Issued in Korean)

To the Shareholders and the Board of Directors of LG Chem, Ltd.

#### Reviewed Condensed Consolidated Interim Financial Statements

We have reviewed the accompanying condensed consolidated interim financial statements of LG Chem, Ltd. and its subsidiaries (collectively, the "Group"). These condensed consolidated interim financial statements consist of the condensed consolidated interim statement of financial position of the Group as at September 30, 2023, and the related condensed consolidated interim statement of profit or loss, condensed consolidated interim statement of comprehensive income for three-month and nine-month periods ended September 30, 2023, and condensed consolidated interim statement of changes in equity and condensed consolidated interim statement of cash flows, all expressed in Korean won, for the nine-month periods ended September 30, 2023, and a summary of material accounting policies and other explanatory notes, expressed in Korean won.

#### Management's Responsibility for the Condensed Consolidated Interim Statements of Financial Statements

Management is responsible for the preparation and fair presentation of these condensed consolidated interim financial statements in accordance with International Financial Reporting Standards as adopted by the Republic of Korea (K-IFRS) 1034 *Interim Financial Reporting*, and for such internal control as management determines is necessary to enable the preparation of condensed consolidated interim financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to issue a report on these condensed consolidated interim financial statements based on our review.

We conducted our review in accordance with quarterly or semiannual review standards established by the Securities and Futures Commission of the Republic of Korea. A review of interim financial information consists of making inquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with Korean Standards on Auditing and, consequently, does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.

# **Deloitte.**

#### Conclusion

Based on our review, nothing has come to our attention that causes us to believe the accompanying condensed consolidated interim financial statements are not presented fairly, in all material respects, in accordance with K-IFRS 1034 *Interim Financial Reporting*.

#### **Other Matters**

The condensed consolidated interim statements of profit or loss, comprehensive income for three-month and nine-month periods ended September 30, 2022, changes in equity and cash flows for the nine-month periods ended September 30, 2022, which were marked with comparative figures, were reviewed by another auditor. The review report dated November 14, 2022, stated that there were no discrepancies found in the condensed consolidated interim financial statements presented fairly in terms of materiality, in accordance with the K-IFRS No. 1034, *Interim Financial Reporting*.

Furthermore, the consolidated statement of financial position of the Group as at December 31, 2022, The consolidated statements of profit or loss, comprehensive income, changes in equity and cash flows for the accounting year ending on the same date (not attached to this review report) were audited in accordance with Korean Standards on Auditing by another auditor. In the audit report dated March 9, 2023, an unqualified opinion was expressed.

The consolidated statement of financial position of the Group as at December 31, 2022, attached for comparative purposes does not differ, in all material respects, from the audited consolidated financial statements mentioned above.

Deloine Idnjin UC

November 14, 2023 Seoul, Korea

This report is effective as of November 14, 2023, the review report date. Certain subsequent events or circumstances, which may occur between the review report date and the time of reading this report, could have a material impact on the accompanying condensed consolidated interim financial statements and notes thereto. Accordingly, the readers of the review report should understand that there is a possibility that the above review report may have to be revised to reflect the impact of such subsequent events or circumstances, if any.

LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Financial Position As of September 30, 2023, and December 31, 2022

(In millions of Korean won)	Notes		tember 30, 2023 (Unaudited)	<b>December 31, 2022</b>			
Assets							
Current assets							
Cash and cash equivalents	3,5,6	₩	8,880,920	₩	8,497,882		
Trade receivables	3,5,7,31		8,923,809		7,450,395		
Other receivables	3,5,7,31		990,100		742,431		
Other current financial assets	3,5,8		40,661		9,167		
Prepaid income taxes			35,044		52,920		
Other current assets	13		947,315		1,013,463		
Inventories	9		10,607,763		11,880,631		
Assets held for sale	34		222,322		27,480		
Total current assets			30,647,934		29,674,369		
Non-current assets							
Trade receivables	3,5,7		132,910		120,698		
Other receivables	3,5,7		931,445		617,444		
Other non-current financial assets	3,5,8		1,625,237		1,237,167		
Investments in associates and joint ventures	1,10,33		1,000,322		949,553		
Deferred tax assets	28		2,344,046		2,165,557		
Property, plant and equipment	11		36,362,766		29,662,743		
Intangible assets	12		3,653,492		2,690,203		
Investment properties	36		90,945		94,026		
Other non-current assets	13,16		710,924		762,063		
Total non-current assets			46,852,087		38,299,454		
Total assets		₩	77,500,021	₩	67,973,823		
Liabilities							
Current liabilities							
Trade payables	3,5,31	₩	5,011,679	₩	4,756,246		
Other payables	3,5,31		4,485,002		4,899,553		
Borrowings	3,5,14		4,590,146		3,804,367		
Other current financial liabilities	3,5,8		24,699		7,271		
Provisions	15		587,648		1,026,446		
Income tax payables			151,691		626,226		
Other current liabilities	17,35		1,178,840		1,339,454		
Liabilities of disposal groups as held for sale	34		20,219				
Total current liabilities			16,049,924		16,459,563		
Non-current liabilities							
Other payables	3,5		108,512		43,708		
Borrowings	3,5,14		17,317,510		12,160,152		
Other non-current financial liabilities	3,5,8		532,337		33,319		
Provisions	15		890,090		533,414		
Net defined benefit liabilities	13,16		21,245		19,470		
Deferred tax liabilities	28		824,788		838,725		
Other non-current liabilities	17,35		390,409		404,345		
Total non-current liabilities			20,084,891		14,033,133		
Total liabilities			36,134,815		30,492,696		

(Continued)

## LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Financial Position (Continued) As of September 30, 2023, and December 31, 2022

(In millions of Korean won)	Notes	September 30, 2023 (Unaudited)	<b>December 31, 2022</b>			
Equity						
Share capital	1,19	391,406	391,406			
Capital surplus	19	11,572,098	11,569,556			
Other components of equity	21	(19,569)	(19,569)			
Accumulated other comprehensive income		894,945	366,916			
Retained earnings	20	19,782,620	19,142,263			
<b>Equity attributable to owners of the Parent</b>						
Company		32,651,500	31,450,572			
Non-controlling interests	1	8,743,706	6,030,555			
Total equity		41,365,206	37,481,127			
Total liabilities and equity		₩ 77,500,021	₩ 67,973,823			

(Concluded)

The above condensed consolidated interim statements of financial position should be read in conjunction with the accompanying notes.

LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Profit or Loss Three-Month and Nine-Month Periods Ended September 30, 2023 and 2022

(In millions of Korean won, except per share amounts)  Notes  Period En							led September 30					
				023			2022					
			(Una			(Unaudited)						
		Tł	ree months	1	Nine months	1	hree months	N	line months			
Revenue	22, 31, 33, 35	₩	13,494,826	₩	42,114,983	₩	13,984,622	₩	37,327,081			
Cost of sales	22, 23, 31		(11,177,109)		(35,079,485)		(11,235,377)		(29,650,108)			
Gross profit			2,317,717		7,035,498		2,749,245		7,676,973			
Other operating income	22		215,587		426,797							
Selling and administrative expenses	22, 23, 31		(1,672,878)		(5,180,526)		(1,837,864)		(4,906,991)			
Operating profit	22, 33		860,426		2,281,769		911,381		2,769,982			
Finance income	5, 25		455,188		1,430,930		639,661		1,182,013			
Finance costs	5, 25		(665,969)		(1,539,994)		(820,053)		(1,458,292)			
Share of net profit of associates and joint ventures												
accounted for using the equity method	10		(6,467)		(25,690)		(13,652)		(23,323)			
Other non-operating income	5, 26		341,771		1,391,178		1,039,053		1,862,108			
Other non-operating expenses	5, 27		(408,706)		(1,257,848)		(831,698)		(1,534,197)			
Profit before income tax expense	32		576,243		2,280,345		924,692		2,798,291			
Income tax expense	28		(13,941)		(371,572)		(240,336)		(714,057)			
Profit from continuing operations			562,302		1,908,773		684,356		2,084,234			
Profit from discontinued operations	34		22,742		16,133		29,520		117,179			
Profit for the period		₩	585,044	₩	1,924,906	₩	713,876	₩	2,201,413			
Profit is attributable to:												
Owners of the Parent Company												
Profit from continuing operations		₩	397,172	₩	1,402,151	₩	584,468	₩	1,844,423			
Profit from discontinued operations			23,045		17,096		29,904		117,464			
·			420,217		1,419,247		614,372		1,961,887			
Non-controlling interests												
Profit from continuing operations			165,130		506,622		99,888		239,811			
Loss from discontinued operations			(303)		(963)		(384)		(285)			
			164,827		505,659		99,504		239,526			
Earnings per share for profit												
attributable to the equity holders												
of the Parent Company (in Korean won)	29											
Basic and diluted earnings per ordinary share			5,364		18,127		7,881		25,177			
Basic and diluted earnings per preferred share			5,414		18,177		7,931		25,277			
Earnings per share for profit from continuing												
operations attributable to the equity holders												
of the Parent Company (in Korean won)	29											
Basic and diluted earnings per ordinary share			5,069		17,908		7,497		23,670			
Basic and diluted earnings per preferred share			5,119		17,958		7,547		23,720			

The above condensed consolidated interim statements of profit or loss should be read in conjunction with the accompanying notes.

LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Comprehensive Income Three-Month and Nine-Month Periods Ended September 30, 2023 and 2022

Period Ended September 30									
		202 (Unauc							
Three months	Nine months	Three months	Nine months						
₩ 585,044	₩ 1,924,906	₩ 713,876	₩ 2,201,413						
2,340	5,323	432,454	425,770						
(55,383)	(88,036)	(10,983)	44						
-	461	-	(307)						
15,779	23,958	(115,431)	(117,072)						
362,188	881,002	797,268	1,284,965						
(1,701)	(17,176)	(15,715)	(33,119)						
5,713	34,625	50,099	73,245						
942	11,955	1,095	(37,161)						
329,878	852,112	1,138,787	1,596,365						
₩ 914,922	₩ 2,777,018	₩ 1,852,663	₩ 3,797,778						
₩ 577.079	₩ 1.951.221	₩ 1.440.350	₩ 3,095,250						
337,843	825,797	412,313	702,528						
	(Una Three months   ₩ 585,044  2,340  (55,383)  -15,779  362,188 (1,701) 5,713 942 329,878  ₩ 914,922  ₩ 577,079	2023 (Unaudited)       Three months     Nine months       ₩ 585,044     ₩ 1,924,906       2,340     5,323       (55,383)     (88,036)       -     461       15,779     23,958       362,188     881,002       (1,701)     (17,176)       5,713     34,625       942     11,955       329,878     852,112       ₩ 914,922     ₩ 2,777,018       ₩ 577,079     ₩ 1,951,221	2023 (Unaudited)         203 (Unaudited)           Three months         Nine months         Three months           ₩ 585,044         ₩ 1,924,906         ₩ 713,876           2,340         5,323         432,454           (55,383)         (88,036)         (10,983)           -         461         -           15,779         23,958         (115,431)           362,188         881,002         797,268           (1,701)         (17,176)         (15,715)           5,713         34,625         50,099           942         11,955         1,095           329,878         852,112         1,138,787           ₩ 914,922         ₩ 2,777,018         ₩ 1,852,663           ₩ 577,079         ₩ 1,951,221         ₩ 1,440,350						

The above condensed consolidated interim statements of comprehensive income should be read in conjunction with the accompanying notes.

## LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Changes in Equity For the Nine-Month Periods Ended September 30, 2023 and 2022

									of the Parent Comp	oany							
In millions of Korean won)	Note		Share apital	Сај	oital surplus	com	Other ponents of equity	co	umulated other omprehensive ncome (loss)		Retained earnings		Total		-controlling interests		Total equity
Balance at January 1, 2022		₩	391,406	₩	2,696,385	₩	(37,310)	₩	551,354	₩	18,091,949	₩	21,693,784	₩	1,516,204	₩	23,209,988
Comprehensive income Profit for the period Remeasurements of net defined			-		-		-		-		1,961,887		1,961,887		239,526		2,201,413
benefit liabilities Exchange differences on	16		-		-		-		-		286,292		286,292		22,379		308,671
translation of foreign operations Gain on valuation of financial assets at fair value through other			-		-		-		805,681		-		805,681		435,504		1,241,185
comprehensive income Cash flow hedge Others			-		-		-		(1,803) (21,388) 64,888		(307)		(1,803) (21,388) 64,581		1,875 (5,112) 8,356		72 (26,500) 72,937
Total comprehensive income for the period			-				_		847,378		2,247,872		3,095,250		702,528		3,797,778
Transactions with owners: Dividends	30		-		(30,428)		-		-		(935,275)		(965,703)		(125,206)		(1,090,909)
Changes in interest in subsidiaries Increase in paid-in capital of a			-		8,711,480		-		-		-		8,711,480		3,297,254		12,008,734
subsidiary Others					8.681.052				<u> </u>		515		515 7.746.292		789,140 (136)		789,140 379 11,707,344
Total transactions with owners Balance at September 30, 2022 (Unaudited)		₩	391,406	₩	11,377,437	₩	(37,310)	₩	1,398,732	₩	19,405,061	₩	32,535,326	₩	3,961,052 6,179,784	₩	38,715,110
Balance at January 1, 2023		₩	391,406	₩	11,569,556	₩	(19,569)	₩	366,916	₩	19,142,263	₩	31,450,572	₩	6,030,555	₩	37,481,127
Comprehensive income Profit for the period			-		-		-		-		1,419,247		1,419,247	···	505,659		1,924,906
Remeasurements of net defined benefit liabilities Exchange differences on translation	16		-		-		-		-		3,484		3,484		450		3,934
of foreign operations Loss on valuation of			-		-		-		567,576		-		567,576		321,081		888,657
financial assets at fair value through other comprehensive income Cash flow hedge Others			-		-		-		(61,108) (10,537) 32,098		- - 461		(61,108) (10,537) 32,559		(1,581) (2,338) 2,526		(62,689) (12,875) 35,085
Total comprehensive income for the period			-		-		-		528,029		1,423,192		1,951,221		825,797		2,777,018
Transactions with owners: Dividends Increase in paid-in capital of a	30		-		-		-		-		(783,135)		(783,135)		(92,872)		(876,007)
subsidiary Others			- -		2,542		-		- -		300		2,542 300		1,980,551 (325)		1,983,093 (25)
Total transactions with owners Balance at September 30, 2023					2,542				-		(782,835)		(780,293)		1,887,354		1,107,061
(Unaudited)		₩	391,406	₩	11,572,098	₩	(19,569)	₩	894,945	₩	19,782,620	₩	32,621,500	₩	8,743,706	₩	41,365,206

The above condensed consolidated interim statements of changes in equity should be read in conjunction with the accompanying notes.

## LG Chem, Ltd. and Subsidiaries Condensed Consolidated Interim Statements of Cash Flows For the Nine-Month Periods Ended September 30, 2023 and 2022

(I.,; II; f.V)	Note	2023	3 (Unaudited)	a	2022
(In millions of Korean won)	Note			(1	U <b>naudited)</b>
Cash flows from operating activities	22	₩	5,509,308	₩	94,447
Cash generated from operations	32	**	216,618	**	109,100
Interest received			(474,179)		(213,069)
Interest paid Dividends received			22,121		5,289
			(1,143,645)		(1,526,575)
Income taxes paid					
Net cash inflow (out flow) from operating activities			4,130,223		(1,530,808)
Cash flows from investing activities					
Decrease in other receivables			417,520		253,127
Proceeds from disposal of other financial assets			5,737		39,650
Proceeds from disposal of property, plant and equipment			66,839		79,136
Proceeds from disposal of intangible assets			1,398		21,342
Government grants received			298,839		120,135
Net cash inflows from changes in scope of consolidation			-		49,780
Proceeds from disposal of assets held for sale			20,253		31,766
Increase in other receivables			(261,740)		(4,359,609)
Acquisition of investments in associates and joint ventures			(69,334)		(504,022)
Acquisition of other financial assets			(253,420)		(422,304)
Acquisition of property, plant and equipment			(9,257,057)		(5,955,052)
Acquisition of intangible assets			(114,735)		(116,173)
Cash outflows from transfer of business			(702,227)		(8,986)
Other cashflows from investing activities			(4,431)		
Net cash outflow from investing activities			(9,852,358)		(10,771,210)
Cash flows from financing activities					
Proceeds from borrowings			10,898,293		4,340,531
Capital contribution from non-controlling interests			1,983,093		13,409,396
Settlement of derivative instruments transactions			1,705,075		5,712
Repayments of borrowings and others			(6,100,347)		(3,597,413)
Dividends paid			(906,765)		(1,036,815)
Net cash inflow from financing activities			5,874,274		13,121,411
There eash millow from maneing activities			3,071,271		13,121,111
Net increase in cash and cash equivalents			152,139		819,393
Cash and cash equivalents at the beginning of the period			8,497,882		3,760,834
Effects of exchange rate changes on cash and cash equivalents			251,059		331,647
Cash and cash equivalents included in disposal groups			(20.160)		
classified as held for sale		117	(20,160)	117	-
Cash and cash equivalents at the end of the period		₩	8,880,920	₩	4,911,874

The above condensed consolidated interim statements of cash flows should be read in conjunction with the accompanying notes.

#### LG Chem, Ltd. and Subsidiaries

Notes to the Condensed Consolidated Interim Financial Statements As of September 30, 2023, and December 31, 2022, and for the Three-Month and Nine-Month Periods Ended September 30, 2023 and 2022

#### 1. GENERAL INFORMATION:

General information about LG Chem, Ltd. (the "Parent Company") and its 70 subsidiaries (the "Group") is as follows:

#### 1.1 The Parent Company

The Parent Company was spun off on April 1, 2001, from LG Chem Investment Ltd. (now LG Corp., formerly LG Chemical Ltd.).

As at September 30, 2023, the Group has its manufacturing facilities in Yeosu, Daesan, Ochang, Cheongju, Naju, Iksan, Paju, Osong, Onsan, Gimcheon and overseas sites.

As at September 30, 2023, the company's capital, including the preferred share capital of \( \partial 38,444 \) million, is \( \partial 391,406 \) million. The largest shareholder of the Parent Company is LG Corp., which owns 33.34% of the Parent Company's ordinary shares.

The Parent Company is authorized to issue 292 million shares of ordinary shares with par value of \$\psi\_5,000\$ per share. As at September 30, 2023, the Parent Company has 70,592,343 ordinary shares and 7,688,800 preferred shares issued and outstanding. Preferred shareholders have no voting rights, but are entitled to receive dividends at a rate 1% more than those paid to ordinary shareholders.

#### 1.2 Business Overview

The Group is engaged in Petrochemical, Energy solutions and Advanced materials businesses, and is also engaged in Life Sciences business acquired through a merger with LG Life Sciences, Ltd. in January 2017. In addition, the Parent Company acquired 100% shares of FarmHannong Co., Ltd. in April 2016, which is engaged to manufacture crop protection products, seeds, fertilizers and others.

The Petrochemical business includes production of olefin petrochemicals, such as ethylene, propylene, butadiene from Naphtha and aromatic petrochemicals, such as benzene. It also includes production of synthetic resin and synthetic components from olefin, and aromatic petrochemicals. This business bears characteristics of a large-volume process industry. The Group's major products are PE, PP, BPA, ABS, EP, PVC, plasticizers, acrylic, SAP, synthetic rubber, a special resin and others.

LG Energy Solution, Ltd. was established through the split-off of the energy solution business from the Parent Company on December 1, 2020, and its subsidiaries mainly manufacture and supply batteries ranging from IT and new application batteries for mobile phones and laptop computers, to automotive batteries for electric vehicles and Energy Storage System ("ESS") batteries. Demand for small-sized batteries for new applications, such as electric tools and electric driving devices, as well as traditional IT devices is increasing recently, and the automotive battery business is also expected to expand rapidly due to an increasing demand for the batteries associated with enhanced environment regulation in developed countries. Demand for ESS is expanding with an increasing importance of efficient usage of electricity and generation of renewable energy.

The advanced materials business manufactures and supplies various kinds of IT materials, such as automotive materials, OLED film, semiconductor materials, OLED materials, battery materials and others, including RO membranes, which will be the next growth engine for future.

The Life Sciences business manufactures and supplies pharmaceutical products, such as human growth hormone 'Eutropin,' diabetes drug 'Zemiglo,' bovine somatotropin 'Boostin,' hyaluronic acid filler 'YVOIRE' and others, as well as fine chemical products, such as herbicide 'PYANCHOR' for rice farming and others.

FarmHannong Co., Ltd. and its subsidiaries were acquired by the Group in 2016 to manufacture and sell crop protection products, seeds, fertilizers and others. The crop protection business provides high-value products, such as environment-friendly pesticides. The fertilizer business leads to developing of next-generation fertilizers, such as ecofriendly organic and functional fertilizers and potting soil. The seed business puts priority on retaining various genetic resources and developing rare breeds with high profit in order to remain competitive in a future food industry.

#### 1.3 Consolidated Subsidiaries, Associates and Joint Ventures

Percentage of ownership held by	
the Group (%)	

	September 30, 2023	December 31, 2022	<b>Business location</b>	Closing month	Business activities
Consolidated subsidiaries					
LG Energy Solution, Ltd. <sup>1</sup>	82	82	Korea	December	Battery manufacturing and sales
Ningbo LG Yongxing Chemical Co., Ltd. <sup>2</sup>	75	75	China	December	ABS/SBL manufacturing and sales
Ningbo Zhenhai LG Yongxing Trade Co., Ltd. <sup>2</sup>	75	75	China	December	ABS sales
LG Chem America, Inc	100	100	USA	December	Sales and trading
LG Chemical India Pvt. Ltd. <sup>3,5</sup>	100	100	India	December	Synthetic resin manufacturing and sales
LG Polymers India Pvt. Ltd. <sup>3,5</sup>	100	100	India	December	PS manufacturing and sales
LG Chemical (Guangzhou) Engineering Plastics Co., Ltd.	100	100	China	December	EP manufacturing and sales
LG Chem (Taiwan), Ltd.	100	100	Taiwan	December	Polarizer manufacturing and sales
Tianjin LG Bohai Chemical Co., Ltd.	75	75	China	December	PVC, VCM and EDC manufacturing and sales
Tianjin LG BOTIAN Chemical Co., Ltd.	58	58	China	December	SBS manufacturing and sales
LG Chem (China) Investment Co., Ltd. <sup>4</sup>	100	100	China	December	China holding company
LG Chem (Tianjin) Engineering Plastics Co., Ltd.	100	100	China	December	EP manufacturing and sales
LG Chem Europe GmbH	100	100	Germany	December	Sales and trading
LG Chem Poland Sp. z o.o.	100	100	Poland	December	EP manufacturing and sales
LGC Petrochemical India Private Ltd.	100	100	India	December	Synthetic resin manufacturing and sales
HAENGBOKNURI CO., Ltd.	100	100	Korea	December	Facility management and general cleaning
LG CHEM TK Kimya SANAYI VE TIC. Ltd. STI.	100	100	Turkey	December	Sales and trading
LG Chem Japan Co., Ltd.	100	100	Japan	December	Sales and trading
LG NanoH2O, LLC	100	100	USA	December	Water processing membrane sales
LG Chem (Chongqing) Engineering Plastics Co., Ltd.	100	100	China	December	EP manufacturing and sales
LG Chem (HUIZHOU) Petrochemical Co., Ltd.	70	70	China	December	ABS manufacturing and sales
LG Chem Life Sciences India Pvt. Ltd.	100	100	India	December	Pharmaceutical products sales
LG Jiansheng Chem Life Sciences (Beijing) Co., Ltd.	60	60	China	December	Pharmaceutical products sales
LG Chem Life Sciences (Thailand) Ltd.	100	100	Thailand	December	Pharmaceutical products sales
LG Chem Hai Phong Vietnam Co., Ltd.	100	100	Vietnam	December	Polarizer manufacturing and sales
LG Chem Mexico S.A. de C.V.	100	100	Mexico	December	Sales and trading
LG Chem Hai Phong engineering Plastics LLC.	100	100	Vietnam	December	EP manufacturing and sales
LG Chem (Guangzhou) Information & Electronics Materials Co., Ltd.	100	100	China	December	Polarizer manufacturing and sales
LEYOU NEW ENERGY MATERIALS(WUXI) Co., Ltd.	51	51	China	December	Cathode materials manufacturing and sales
LG Chem Fund I LLC <sup>6</sup>	100	100	USA	December	Investments in venture companies
Uniseal, Inc.	100	100	USA	December	Adhesive manufacturing and sales
LG Chem Life Science Innovation Center, Inc. $^7$	100	100	USA	December	Pharmaceutical products research
LG Chem Asia Pte. Ltd.	100	100	Singapore	December	Asia BSC
LG Chem China Tech Center <sup>4</sup>	100	100	China	December	Research on petrochemicals
LG PETRONAS CHEMICALS Malaysia Sdn.Bhd.	51	51	Malaysia	December	NBL manufacturing and sales
LG Chem Hangzhou Advanced Materials Co., Ltd.	70	70	China	December	Polarizer sheet manufacturing and sales

#### Percentage of ownership held by the Group (%)

	the Group (%)		<u>.</u>		
	September 30, 2023	December 31, 2022	Business location	Closing month	Business activities
LG-HY BCM Co., Ltd. <sup>8</sup>	51	100	Korea	December	Cathode materials manufacturing and sales
LG Chem Ohio Petrochemical, Inc.	100	100	USA	December	ABS manufacturing and sales
LG Chem VietNam Co., Ltd.	100	100	Vietnam	December	Sales and trading
LG Chem Malaysia SDN.BHD.	100	100	Malaysia	December	Sales and trading
LG Chem BRASIL INTERMEDIACAO DE NEGOCIOS DO SETOR QUIMICO LTDA.	100	100	Brazil	December	Sales and trading
Aveo Pharmaceuticals, Inc. 7	100	-	USA	December	Anticancer drugs sales and research
PT LGChem Indonesia <sup>9</sup>	100	-	Indonesia	December	Sales and trading
TW Biomassenergy Co., Ltd 10	60	-	Korea	December	Plant utility manufacturing and sales
FarmHannong Co., Ltd. <sup>12</sup>	100	100	Korea	December	Agricultural pesticide manufacturing and sales
Farmhannong America, Inc. 12	100	100	USA	December	Agricultural pesticide sales
FarmHannong(Thailand) Ltd. 12	100	100	Thailand	December	Research and development ("R&D") on seeds
FARMHANNONG(MALAYSIA) SDN. BHD. 12	100	100	Malaysia	December	Agricultural pesticide licensing
PT FARM HANNONG INDONESIA 12	100	100	Indonesia	December	Agricultural pesticide licensing
FarmHannong do Brasil Limitada 12	100	100	Brazil	December	Agricultural pesticide sales
LG Energy Solution (Nanjing) Co., Ltd. <sup>1</sup>	82	82	China	December	Small-battery manufacturing and sales
LG Energy Solution Michigan Inc. <sup>1</sup>	82	82	USA	December	Automotive battery research and manufacturing
LG Energy Solution Battery (Nanjing) Co., Ltd. <sup>1</sup>	82	82	China	December	Automotive battery manufacturing and sales
LG Energy Solution Wroclaw sp. z o.o. <sup>1</sup>	82	82	Poland	December	Automotive battery manufacturing and sales
LG Energy Solution Australia Pty Ltd <sup>1</sup>	82	82	Australia	December	ESS sales
LG Energy Solution Technology (Nanjing) Co., Ltd. <sup>1</sup>	82	82	China	December	Automotive battery manufacturing and sales
Ultium Cells Holdings LLC <sup>1, 14</sup>	41	41	USA	December	Automotive battery manufacturing and sales
Ultium Cells LLC <sup>1, 14</sup>	41	41	USA	December	Automotive battery manufacturing and sales
LG Energy Solution Europe GmbH <sup>1</sup>	82	82	Germany	December	ESS sales
LG Energy Solution (Taiwan), Ltd. 1	82	82	Taiwan	December	Small-storage battery sales
Aremnuri. Co. Ltd <sup>1</sup>	82	82	Korea	December	Facility management and general cleaning
LG Energy Solution Fund I LLC <sup>1</sup>	82	82	USA	December	Investments in venture companies
LG Energy Solution Vertech Inc. 1	82	82	USA	December	ESS installation service
LG Energy Solution Arizona, Inc <sup>1</sup>	82	82	USA	December	Small-battery manufacturing and sales
Baterias De Castilla, S.L. <sup>1</sup>	82	82	Spain	December	Special purpose company
L-H Battery Company, Incorporated <sup>1</sup>	42	-	USA	December	Automotive battery manufacturing and sales
LG Energy Solution India Private Limited <sup>1</sup>	82	-	India	December	Small-battery sales
LG Energy Solution Arizona ESS, Inc. 1	82	-	USA	December	ESS Manufacturing and sales
Nextstar Energy Inc. <sup>1</sup>	42	-	Canada	December	Automotive battery manufacturing and sales
LG Energy Solution Fund II LLC 1	82	-	USA	December	Investments in venture companies
Associates					
TECHWIN Co., Ltd.	20	20	Korea	December	Environment solution and construction of chemical plant
LG Chem Life Sciences Poland Ltd.	100	100	Poland	December	Pharmaceutical products sales

#### Percentage of ownership held by

	41 (2 (9/)							
	the Group (%)		•					
	September 30,	December 31,	Business	Closing	<b>Business activities</b>			
	2023	2022	location	month	Business activities			
HUAJIN NEW ENERGY	49	49	China	December	Battery materials manufacturing and			
MATERIALS(QUZHOU)CO., LTD.					sales			
TL Chemical CO., Ltd	40	40	Korea	December	AN manufacturing and sales			
KOREA PRECURSOR CO., LTD. <sup>11</sup>	49	49	Korea	December	Battery materials manufacturing and sales			
VINFAST LITHIUM BATTERY PACK LLC. 1, 15	-	29	Vietnam	December	Battery manufacturing and sales			
Jiangxi VL Battery., Ltd. 1	28	28	China	December	Battery manufacturing and sales			
Sam-a Aluminium Company, Limited 1, 16	8	-	Korea	December	Aluminium sales and manufacturing			
NEXPO Co., Ltd <sup>1, 17</sup>	16	-	Korea	December	Battery productsmanufacturing and sales			
Joint ventures 13								
SEETEC Co., Ltd.	50	50	Korea	December	Plant utility and distribution, research assistance service			
LG Toray Hungary Battery Separator Kft	50	50	Hungary	December	Battery separator manufacturing and sales			
PT.HLI Greenpower Co., Ltd. <sup>1</sup>	41	41	Indonesia	December	Automotive battery manufacturing and sales			

<sup>&</sup>lt;sup>1</sup> During the previous year, LG Energy Solution, Ltd. was listed on Korea Composite Stock Price Index (KOSPI) and its percentage of ownership to LG Energy Solution, Ltd. decreased since the Parent Company sold the shares of LG Energy Solution, Ltd. As at September 30, 2023, LG Energy Solution, Ltd. owns shares in subsidiaries, associates and joint ventures, such as LG Energy Solution (Nanjing) Co., Ltd. and others, and the Group has stated the shares of those companies as effective share ratio.

- <sup>12</sup> As at September 30, 2023, FarmHannong Co., Ltd. owns 100% of Farmhannong America, Inc., FarmHannong(Thailand) Ltd., FARMHANNONG(MALAYSIA) SDN.BHD., PT FARM HANNONG INDONESIA and FarmHannong do Brasil Limitada's shares.
- <sup>13</sup> All joint arrangements over which the Group has joint control are classified as a joint venture since the joint arrangements are structured through a separate vehicle and the parties have rights to the net assets of the arrangement.

<sup>&</sup>lt;sup>2</sup> As at September 30, 2023, Ningbo LG Yongxing Chemical Co., Ltd. owns 100% of Ningbo Zhenhai LG Yongxing Trading Co., Ltd.'s shares.

<sup>&</sup>lt;sup>3</sup> As at September 30, 2023, LG Chemical India Pvt. Ltd. owns 100% of LG Polymers India Pvt. Ltd.'s shares.

<sup>&</sup>lt;sup>4</sup> As at September 30, 2023, LG Chem (China) Investment Co., Ltd. owns 100% of LG Chem China Tech Center's shares.

<sup>&</sup>lt;sup>5</sup> During the nine-month period ended September 30, 2023, LG Chemical India Pvt. Ltd. newly acquired shares of LG Polymers India Pvt. Ltd. for \(\psi\)12,390 million.

<sup>&</sup>lt;sup>6</sup> During the nine-month period ended September 30, 2023, the Group additionally acquired shares of LG CHEM FUND I LLC for ₩5,966 million.

<sup>&</sup>lt;sup>7</sup> During the nine-month period ended September 30, 2023, LG Chem Life Science Innovation Center, Inc. invested ₩701,103 million for a 100% share in Aveo Pharmaceuticals, Inc.

<sup>&</sup>lt;sup>8</sup> During the nine-month period ended September 30, 2023, the Group additionally acquired shares of LG BCM for W40,128 million. Meanwhile, the percentage of ownership has been reduced due to paid-in capital increase with allotment to the third party, and the company's name was changed to LG-HY BCM Co., Ltd.

<sup>&</sup>lt;sup>9</sup> During the nine-month period ended September 30, 2023, the Group invested ₩886 million for a 100% share in PT LG CHEM INDONESIA.

<sup>&</sup>lt;sup>10</sup> During the nine-month period ended September 30, 2023, the Group invested ₩3,600 million for a 60% share in TW Biomassenergy Co., Ltd.

<sup>&</sup>lt;sup>11</sup> During the nine-month period ended September 30, 2023, the Group additionally acquired shares of KOREA PRECURSOR CO., LTD. for ₩20,384 million.

During the nine-month period ended September 30, 2023, the Group disposed 100% ownership shares of VINFAST LITHIUM BATTERY PACK LLC.

<sup>16</sup> During the nine-month period ended September 30, 2023, LG Energy Solution, Ltd. newly acquired 10% shares of Sam-a Aluminum Company, Limited for ₩46,575 million. Although the ownership interest in Sam-a Aluminum Company, Limited. is less than 20%, the Group can exercise the majority voting rights in its decision-making process in accordance with the shareholders' agreement. Therefore, it is judged to have significant influence

17 During the nine-month period ended September 30, 2023, LG Energy Solution, Ltd. newly acquired 19% shares of NEXPO Co., Ltd for \(\partial 2,375\) million. Although the ownership interest in NEXPO Co., Ltd. is less than 20%, the Group can exercise the majority voting rights in its decision-making process in accordance with the shareholders' agreement. Therefore, it is judged to have significant influence.

#### 1.4 Summarized Financial Information of Subsidiaries, Associates and Joint Ventures

Summarized financial information (before the adjustments such as elimination of intercompany transactions, adjustments for differences in accounting policies, etc.) of subsidiaries, associates and joint ventures is as follows:

	<b>September 30, 2023</b>					2023				
(In millions of Korean won)		Assets	]	Liabilities		Equity		Revenue		rofit (loss) the period
Subsidiaries										
LG Energy Solution, Ltd. and its subsidiaries <sup>1</sup>	₩	45,168,509	₩	20,500,543	₩	24,667,966	₩	25,744,146	₩	1,447,658
Ningbo LG Yongxing Chemical Co., Ltd.		1,010,367		226,421		783,946		1,387,942		37,754
Ningbo Zhenhai LG Yongxing Trade Co., Ltd.	₩	7,246	₩	613	₩	6,633	₩	13,633	₩	194
LG Chem America, Inc.		402,963		351,839		51,124		765,663		(871)
LG Chemical India Pvt. Ltd.		62,967		4		62,963		-		68
LG Polymers India Pvt. Ltd.		82,839		55,365		27,474		(21)		(6,599)
LG Chemical (Guangzhou) Engineering Plastics Co., Ltd.		111,925		30,314		81,611		136,260		11,046
LG Chem (Taiwan), Ltd. 4,5		68,331		11,183		57,148		24,043		6,739
Tianjin LG Bohai Chemical Co., Ltd.		464,441		68,024		396,417		401,504		15,508
Tianjin LG BOTIAN Chemical Co., Ltd.		54,948		23,871		31,077		113,296		2,956
LG Chem (China) Investment Co., Ltd.		1,348,119		960,326		387,793		61,199		9,405
LG Chem (Tianjin) Engineering Plastics Co., Ltd.		59,275		11,045		48,230		56,172		6,130
LG Chem Europe GmbH		391,658		294,588		97,070		676,228		2,979
LG Chem Poland Sp. z o.o.		256,833		134,079		122,754		288,230		21,604
LGC Petrochemical India Private Ltd.		6,522		1,223		5,299		4,721		546
HAENGBOKNURI CO., Ltd.		4,866		1,849		3,017		7,428		121
LG CHEM TK Kimya SANAYI VE TIC. Ltd. STI.		14,171		16,109		(1,938)		64,705		(2,742)
LG Chem Japan Co., Ltd.		5,380		1,114		4,266		4,680		440
LG NanoH2O, LLC		57,181		10,574		46,607		46,085		5,553
LG Chem (Chongqing) Engineering Plastics Co., Ltd.		54,112		10,363		43,749		57,724		7,473
LG Chem (HUIZHOU) Petrochemical Co., Ltd.		493,041		120,135		372,906		561,334		(25,611)
LG Chem Life Sciences India Pvt. Ltd.		1,380		229		1,151		460		114
LG Jiansheng Life Sciences (Beijing) Co., Ltd.		16,764		16,249		515		31,827		1,606

<sup>&</sup>lt;sup>14</sup> During the year ended December 31, 2022, LG Energy Solution, Ltd. acquired 50% shares of Ultium Cells Holdings LLC through the investment in kind with 100% shares of Ultium Cells LLC. Although the Group has less than a majority ownership interest in Ultium Cells Holdings LLC and Ultium Cells LLC, it is considered to have the control over Ultium Cells Holdings LLC and Ultium Cells LLC as the Group can exercise the majority voting rights in its decision-making process and has the ability to use power to affect the returns of the investee through its involvement in the production and cost management and other activities in accordance with the shareholders' agreement.

Profit (loss) Liabilities (In millions of Korean won) Assets **Equity** Revenue for the period LG Chem Life Sciences (Thailand) Ltd. 28,657 11,322 17,335 38,114 635 LG Chem Hai Phong Vietnam Company Ltd. 5 13,521 941 12,580 568 1,997 LG Chem Mexico S.A. de C.V. 4,461 2,464 3,382 395 30,825 8,869 21,956 LG Chem Hai Phong Engineering Plastics Ltd. 33,640 4,229 LG Chem (Guangzhou) Information & Electronics 299,386 85,412 213,974 50,776 3,958 Materials Co., Ltd. 5 LEYOU NEW ENERGY MATERIALS(WUXI) Co., 239,180 737,493 1,539,396 976,673 152,206 Ltd LG Chem Fund I LLC 94,843 58 94.785 (1,274)10,388 Uniseal, Inc. 62,223 51,835 80,851 10,655 LG Chem Life Science Innovation Center, Inc. 53,950 31,308 22,642 10,399 876 LG Chem Asia Pte. Ltd. 51,296 49,662 1,634 3,884 265 LG Chem China Tech Center 1,246 34,515 7,792 204 35,761 LG PETRONAS CHEMICALS Malaysia Sdn.Bhd. 299,212 237,853 61,359 (8,159)LG Chem Hangzhou Advanced Materials Co., Ltd. 5, 32,166 3,337 28,829 495 (2,867)LG-HY BCM Co., Ltd. 539,553 364,066 175,487 172 (4,253)LG Chem Ohio Petrochemical, Inc. 54,269 30,550 23,719 (1,527)LG Chem VietNam Co., Ltd. 791 212 579 881 111 1,565 LG Chem Malaysia SDN.BHD. 1,089 307 782 139 LG Chem BRASIL INTERMEDIACAO DE 1,950 538 1,412 2,435 88 NEGOCIOS DO SETOR QUIMICO LTDA. Aveo Pharmaceuticals, Inc.2 43,939 55,602 143,933 (15.736)(11.663)PT LG CHEM INDONESIA2 959 1,022 655 91 63 TW Biomassenergy Co., Ltd.2 6,053 170 5,883 (117)FarmHannong Co., Ltd and its subsidiaries 1 1,158,204 688,370 469,834 632,758 30,615 **Associates** TECHWIN Co., Ltd. 138,035 66,619 71,416 88,276 (9,753)LG Life Sciences Poland Ltd. 289 106 183 126 KOREA PRECURSOR CO., Ltd. 139,181 60,373 78,808 (3,150)HUAJIN NEW ENERGY 491,919 327,864 164,055 539,618 (2,754)MATERIALS(QUZHOU)CO., LTD. 122,237 2,694 TL Chemical Co., Ltd 122,237 Sam-a Aluminium Company, Limited<sup>2</sup> 418,848 161,944 256,904 205,809 3,493 NEXPO Co., Ltd<sup>2</sup> 14,295 2,522 11,773 251 (728)Joint ventures SEETEC Co., Ltd. 343,068 61,708 281,360 604,680 14,514 LG Toray Hungary Battery Separator Kft. 783,109 6,071 777,038 12,743 (11,280)PT.HLI Green Power 1,116,841 659,781 457,060 528 (11,716)December 31, 2022 2022 Profit (loss) (In millions of Korean won) Liabilities for the period Assets **Equity** Revenue **Subsidiaries** LG Energy Solution, Ltd and its subsidiaries 1 ₩ 38,299,445 ₩ 17,705,683 ₩ 20,593,762 ₩ 17,061,066 504,258 977,939 216,923 1,737,216 114,693 Ningbo LG Yongxing Chemical Co., Ltd. 761,016 Ningbo Zhenhai LG Yongxing Trade Co., Ltd. 6,547 208 6,339 21,174 388 LG Chem America, Inc. 364,217 315,018 49,199 1,060,989 1,389 LG Chemical India Pvt. Ltd. 63,069 76 62,993 (150)LG Polymers India Pvt. Ltd. 19,291 2,111 56,108 36,817 (3,858)LG Chemical (Guangzhou) Engineering Plastics 103,121 31,869 71,252 169,659 1,431 Co.,Ltd.

**September 30, 2023** 

2023

	D	ecember 31, 2022	2022			
(In millions of Korean won)	Assets	Liabilities	Equity	Revenue	Profit (loss) for the period	
LG Chem (Taiwan), Ltd. <sup>4,5</sup>	66,276	16,344	49,932	21,166	45,160	
Tianjin LG Bohai Chemical Co., Ltd.	506,683	91,577	415,106	491,681	55,276	
Tianjin LG BOTIAN Chemical Co., Ltd.	52,147	21,909	30,238	130,016	3,044	
LG Chem (China) Investment Co., Ltd.	965,394	595,580	369,814	58,924	6,916	
LG Chem (Tianjin) Engineering Plastics Co., Ltd.	54,521	7,617	46,904	61,431	4,064	
LG Chem Europe GmbH	416,423	327,179	89,244	817,458	9,949	
LG Chem Poland Sp. z o.o.	251,051	156,649	94,402	249,114	5,957	
LGC Petrochemical India Private Ltd.	5,708	1,208	4,500	4,675	600	
HAENGBOKNURI CO., LTD.	4,484	1,588	2,896	6,752	(116)	
LG CHEM TK Kimya SANAYI VE TIC. Ltd. STI.	10,320	9,973	347	71,436	35	
LG Chem Japan Co., Ltd.	5,074	1,012	4,062	4,200	551	
LG NanoH2O, LLC	59,062	20,546	38,516	54,211	5,560	
LG Chem (Chongqing) Engineering Plastics Co., Ltd.	45,022	9,280	35,742	54,980	2,730	
LG Chem (HUIZHOU) Petrochemical Co., Ltd.	545,010	116,473	428,537	742,871	18,664	
LG Chem Life Sciences India Pvt. Ltd.	2,015	1,034	981	4,895	132	
LG Jiansheng Life Sciences (Beijing) Co., Ltd.	16,953	17,949	(996)	27,230	(6,006)	
LG Chem Life Sciences (Thailand) Ltd.	31,712	15,120	16,592	31,702	560	
LG Chem Hai Phong Vietnam Company Ltd. 5	16,224	4,505	11,719	-	2,178	
LG Chem Mexico S.A. de C.V.	3,811	1,877	1,934	2,275	328	
LG Chem Hai Phong Engineering Plastics Ltd. LG Chem (Guangzhou) Information & Electronics	33,254	15,968	17,286	27,588	353	
Materials Co., Ltd. <sup>5</sup> LEYOU NEW ENERGY MATERIALS(WUXI)	281,292	72,768	208,524	35,392	1,439	
CO., LTD.	1,308,350	640,026	668,324	1,656,768	295,965	
LG Chem Fund I LLC	77,965	20	77,945	1,030,700	(2,201)	
Uniseal, Inc.	47,936	9,428	38,508	68,358	3,170	
LG Chem Life Science Innovation Center, Inc.	21,438	1,477	19,961	6,258	633	
LG Chem Asia Pte. Ltd.	47,745	46,430	1,315	3,045	215	
LG Chem China Tech Center	37,725	3,941	33,784	3,373	557	
Shanjin Optoelectronics (Taiwan) Co., Ltd. <sup>3, 4</sup>	57,725	3,711	-	-	56	
LG PETRONAS CHEMICALS Malaysia Sdn.Bhd.	204,444	134,990	69,454	_	(1,780)	
LG Chem Hangzhou Advanced Materials Co., Ltd. 5,	46,375	15,645	30,730		28	
	175,519	*	*	-		
LG-HY BCM Co., Ltd.		125,909 15	49,610 23,827	-	(2,351)	
LG Chem VietNam Co. Ltd.	23,842 747	291	456	726	(252) 71	
LG Chem VietNam Co., Ltd LG Chem Malaysia SDN.BHD.		399	644		91	
•	1,043	399	044	1,408	91	
LG Chem BRASIL INTERMEDIACAO DE	1 207	107	1,180	2.004	454	
NEGOCIOS DO SETOR QUIMICO LTDA. FarmHannong Co., Ltd and its subsidiaries <sup>1</sup>	1,287 1,120,997	682,253	438,744	2,094 657,965	67,150	
Associates						
TECHWIN Co., Ltd.	137,123	58,470	78,653	48,351	(9,108)	
LG Chem Life Sciences Poland Ltd.	235	69	166	122		
KOREA PRECURSOR CO., LTD. <sup>2</sup> HUAJIN NEW ENERGY	47,838	7,352	40,486	-	(102)	
MATERIALS(QUZHOU)CO., LTD.	459,440	292,204	167,236	360,929	(5,351)	
TL Chemical Co., Ltd	118,942	155	118,787	-	(2,350)	
VINFAST LITHIUM BATTERY PACK LLC.	13,297	5,888	7,409	8,830		
Jiangxi VL Battery., Ltd.	82,311	43,170	39,141	1,452		
Joint ventures	<i>y-</i> ·	,	,	, , -	( ))	

December 31, 2022

2022

	D	ecember 31, 2022	2022		
(In millions of Korean won)	Assets	Liabilities	Equity	Revenue	Profit (loss) for the period
VINA Plasticizer Chemical Co., Ltd. <sup>7</sup>	88,554	57,091	31,463	140,475	609
SEETEC Co., Ltd.	338,100	61,274	276,826	515,425	8,184
LG Toray Hungary Battery Separator Kft. <sup>2</sup>	751,781	2,472	749,309	38	3,730
PT.HLI Green Power	667,930	227,305	440,625	-	(4,113)

<sup>&</sup>lt;sup>1</sup> The information is represented on the basis of the consolidated financial information.

<sup>&</sup>lt;sup>2</sup> The information of revenue and profit or loss for the period represents the financial performance after the acquisition of shares.

<sup>&</sup>lt;sup>3</sup> The entities were disposed during the previous year, and the information of revenue and profit or loss for the period represents the financial performance before the disposal.

<sup>&</sup>lt;sup>4</sup>LCD polarizer business, etc., of these entities were classified as discontinued operations and profit or loss from the business was included in profit from discontinued operations.

<sup>&</sup>lt;sup>5</sup> Polarizer and related material business of these entities was classified as discontinued operations and profit or loss from the business was included in profit from discontinued operations.

<sup>&</sup>lt;sup>6</sup> Reclassified to the assets held for sale during the nine-month period ended September 30, 2023.

<sup>&</sup>lt;sup>7</sup> Reclassified to the assets held for sale during the previous year, and revenue and profit or loss for the year presented are the financial performances before the reclassification.

#### 1.5 Information of Non-Controlling Interests that are Material to the Group

- (a) LG Energy Solution, Ltd. and its subsidiaries
- Percentage of ownership held by non-controlling interests and accumulated non-controlling interests

(In millions of Korean won)	Septen	nber 30, 2023	December 31, 2022		
Percentage of ownership held by non-controlling interests		18.2%		18.2%	
Accumulated non-controlling interests	₩	7,878,599	₩	5,263,729	

 Profit and dividends attributable to non-controlling interests for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023			2022		
Profit allocated to non-controlling interests	₩	415,289	₩	88,667		
Dividends paid to non-controlling interests		_		-		

- Summarized condensed consolidated interim statements of financial positions of subsidiaries with material non-controlling interests, are as follows (before elimination of intercompany transactions):

(In millions of Korean won)	Sep	September 30, 2023		
Current assets	₩	18,568,865	₩	18,804,269
Non-current assets		26,599,644		19,495,176
Total assets		45,168,509		38,299,445
Current liabilities		11,290,328		11,444,923
Non-current liabilities		9,210,215		6,260,760
Total liabilities		20,500,543		17,705,683
Total equity	₩	24,667,966	₩	20,593,762

- Summarized condensed consolidated interim statements of comprehensive income of subsidiaries with material non-controlling interests for the nine-month periods ended September 30, 2023 and 2022, are as follows (before elimination of intercompany transaction):

(In millions of Korean won)		2023		
Revenue	₩	25,744,146	₩	17,061,066
Profit for the period		1,447,658		504,258
Total comprehensive income		2,183,472		1,572,666

- Summarized condensed consolidated interim statements of cash flows of subsidiaries with material non-controlling interests for the nine-month periods ended September 30, 2023 and 2022, are as follows (before elimination of intercompany transaction):

(In millions of Korean won)	2023		2022	
Cash flows from operating activities	₩	1,772,162	₩	(1,427,127)
Cash flows from investing activities		(6,864,330)		(8,723,543)
Cash flows from financing activities		3,896,450		10,857,724
Net (decrease) increase in cash and cash equivalents		(1,195,718)		707,054
Cash and cash equivalents at the beginning of period		5,937,967		1,282,880
Effects of exchange rate changes on cash and cash equivalents		132,437		199,540
Cash and cash equivalents at the end of period	₩	4,874,686	₩	2,189,474

#### 1.6 Changes in Scope for Consolidation

Subsidiaries newly included in the consolidation for the nine-month period ended September 30, 2023, are as follows:

Subsidiary	Remark
Aveo Pharmaceuticals. Inc.	Newly acquired
L-H Battery Company, Inc.	Newly established
PT LG CHEM INDONESIA	Newly established
TW Biomassenergy Co., Ltd	Newly established
LG Energy Solution India	Newly established
Private Limited	
LG Energy Solution Arizona	Newly established
ESS, INC.	
Nextstar Energy Inc.	Newly established
LG Energy Solution Fund II	Newly established
LLC	

#### 2. <u>SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:</u>

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

The Group maintains its accounting records in Korean won and prepares statutory financial statements in the Korean language (Hangul) in accordance with International Financial Reporting Standards as adopted by the Republic of Korea ("K-IFRSs"). The accompanying condensed consolidated interim financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

#### 2.1 Basis of Preparation

The Group's condensed consolidated interim financial statements for the nine-month period ended September 30, 2023, have been prepared in accordance with K-IFRS 1034 *Interim Financial Reporting*. These condensed consolidated interim financial statements have been prepared in accordance with the K-IFRS, which is effective or early adopted as at September 30, 2023.

(a) New and amended standards adopted by the Group

The Group has applied the following standards for the first time for its annual reporting period commencing on January 1, 2023.

-K-IFRS 1001 Presentation of Financial Statements and IFRS Practice Statement 2 Making Materiality Judgements - Disclosure of Accounting Policies (Amendments)

The amendments change the requirements in K-IFRS 1001 with regard to disclosure of accounting policies. The amendments replace all instances of the term 'significant accounting policies' with 'material accounting policy information.' Accounting policy information is material if, when considered together with other information included in an entity's financial statements, it can reasonably be expected to influence decisions that the primary users of general-purpose financial statements make on the basis of those financial statements.

The supporting paragraphs in K-IFRS 1001 are also amended to clarify that accounting policy information that relates to immaterial transactions, other events or conditions is immaterial and need not be disclosed. Accounting policy information may be material because of the nature of the related transactions, other events or conditions, even if the amounts are immaterial. However, not all accounting policy information relating to material transactions, other events or conditions is itself material.

-K-IFRS 1001 Presentation of Financial Statements - Disclosure of financial liabilities with condition to adjust exercise price (Amendment)

The amendment requires disclosure of valuation gains or losses (limited to those recognized in the profit or loss) of the conversion options or warrants (or financial liabilities including them), if all or part of the financial instrument with exercise price that is adjusted depending on the issuer's share price change is classified as financial liability as defined in paragraph 11 (2) of K-IFRS 1032.

-K-IFRS 1008 Accounting Polices, Changes in Accounting Estimates and Errors - Definition of Accounting Estimates (Amendment)

The amendment replaces the definition of a change in accounting estimates with the definition of accounting estimates. Under the new definition, accounting estimates are "monetary amounts in financial statements that are subject to measurement uncertainty."

The definition of a change in accounting estimates was deleted. However, the International Accounting Standards Board retained the concept of changes in accounting estimates in the standard with the following clarifications:

- A change in accounting estimate that results from new information or new developments is not the correction of an error.
- The effects of a change in an input or a measurement technique used to develop an accounting estimate are changes in accounting estimates if they do not result from the correction of priorperiod errors.

-K-IFRS 1012 Income Taxes - Deferred Tax related to Assets and Liabilities arising from a Single Transaction (Amendment)

The amendment introduces a further exception from the initial recognition exemption. Under the amendment, an entity does not apply the initial recognition exemption for transactions that give rise to equal taxable and deductible temporary differences.

Depending on the applicable tax law, equal taxable and deductible temporary differences may arise on initial recognition of an asset and a liability in a transaction that is not a business combination and affects neither accounting nor taxable profit. For example, this may arise upon recognition of a lease liability and the corresponding right-of-use asset applying K-IFRS 1116 at the commencement date of a lease.

Following the amendments to K-IFRS 1012, an entity is required to recognize the related deferred tax asset and liability, with the recognition of any deferred tax asset being subject to the recoverability criteria in K-IFRS 1012.

The board also adds an illustrative example to K-IFRS 1012 that explains how the amendments are applied.

The amendments apply to transactions that occur on or after the beginning of the earliest comparative period presented. In addition, at the beginning of the earliest comparative period an entity recognizes:

- A deferred tax asset (to the extent that it is probable that taxable profit will be available against which the deductible temporary difference can be utilized) and a deferred tax liability for all deductible and taxable temporary differences associated with:
  - Right-of-use assets and lease liabilities
  - Decommissioning, restoration and similar liabilities and the corresponding amounts recognized as part of the cost of the related asset
- The cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at that date.

#### (b) New and amended standards not yet adopted by the Group

The following new and amended accounting standards and interpretations that have been published are not mandatory for September 30, 2023, reporting periods and have not been early adopted by the Group.

- Amendments to K-IFRS 1001 Presentation of Financial Statements - Classification of Liabilities as Current or Non-current

The amendments clarify that liabilities are classified as either current or non-current, depending on the substantive rights that exist at the end of the reporting period. Classification is unaffected by the likelihood that an entity will exercise right to defer settlement of the liability or the expectations of management. Also, the settlement of liability includes the transfer of the entity's own equity instruments; however, it would be excluded if an option to settle them by the entity's own equity instruments, i.e., compound financial instruments, meets the definition of equity instruments and is recognized separately from the liability.

The 2023 amendments specify that only covenants that an entity is required to comply with on or before the end of the reporting period affect the entity's right to defer settlement of a liability for at least 12 months after the reporting date. Such covenants affect whether the right exists at the end of the reporting period, even if compliance with the covenant is assessed only after the reporting date.

The 2023 amendments also specify that the right to defer settlement is not affected if an entity only has to comply with a covenant after the reporting period. However, if the entity's right to defer settlement of a liability is subject to the entity complying with covenants within 12 months after the reporting period, an entity discloses information that enables users of financial statements to understand the risk of the liabilities becoming repayable within 12 months after the reporting period. This would include information about the covenants (including the nature of the covenants and when the entity is required to comply with them), the carrying amount of related liabilities and facts and circumstances, if any, that indicate that the entity may have difficulties complying with the covenants. The amendments should be applied for annual periods beginning on or after January 1, 2024, and earlier application is permitted.

The Group anticipates that the application of the amendments will not have a significant impact on the its condensed consolidated interim financial statements.

#### 3. FINANCIAL RISK MANAGEMENT:

#### 3.1 Financial Risk Factors

The Group's activities expose it to a variety of financial risks: market risk, credit risk and liquidity risk. The Group's overall risk management program focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the financial performance of the Group. The Group uses derivative financial instruments to hedge certain risk exposures.

Risk management is carried out by the Group's finance team under policies approved by the Corporate Management Committee. The finance team identifies, evaluates and hedges financial risks in close cooperation with the Group's operating units. The Corporate Management Committee reviews and approves written principles for overall risk management, as well as written policies covering specific areas, such as foreign exchange risk, interest rate risk, and credit risk, use of derivative financial instruments and non-derivative financial instruments, investment of excess liquidity.

#### (1) Market risk

#### 1) Foreign exchange risk

The Group operates internationally and is exposed to foreign exchange risk arising from foreign currency exposures, primarily with respect to the US dollar. Foreign exchange risk arises from future commercial transactions of recognized assets and liabilities.

Management has set up a policy to require Group companies to manage their foreign exchange risk against their functional currency. The Group manages maximum loss for currency risk exposures within the acceptable range using currency risk management model and hires employees who are exclusively responsible for currency risk management.

As at September 30, 2023, and December 31, 2022, the Group's monetary assets and liabilities denominated in currencies other than its functional currency are as follows:

	<b>September 30, 2023</b>				<b>December 31, 2022</b>			
(In millions of Korean won)	Assets		<b>Assets</b> Liabilities		Assets		Liabilities	
USD	₩	7,206,696	₩	12,881,821	₩	5,518,144	₩	8,164,815
EUR		534,222		4,628,950		478,624		5,044,754
JPY		20,699		129,106		17,686		145,211
CNY and others		379,375		13,534		230,763		11,419

As at September 30, 2023, and December 31, 2022, if the Group's functional currency had weakened/strengthened by 10% against the US dollar, etc., with all other variables held constant, profit before income tax would have been affected as follows:

	Septemb	er 30, 2023	<b>December 31, 2022</b>				
(In millions of Korean won)	10% Increase	10% Decrease	10% Increase	10% Decrease			
USD	₩ (448,581)	₩ 448,581	₩ (75,555)	₩ 75,555			
EUR	(387,101)	387,101	(418,930)	418,930			
JPY	(10,839)	10,839	(12,603)	12,603			
CNY and others	39,294	(39,294)	42,841	(42,841)			

The above sensitivity analysis has been performed for monetary assets and liabilities denominated in foreign currencies other than the Group's functional currency at the reporting date.

As at September 30, 2023, and December 31, 2022, the Group entered into foreign currency forward and currency swap contracts to manage risk from changes in exchange rates and the details are as follows:

(In millions of Korean won and in millions of US dollars)

		<b>September 30, 2023</b>									
			Contract	Contract		Book amount					
	Contractor	Contract amount	exchange rate	inception date	Contract maturity	Assets	Liabilities				
Currency forward	Industrial and Commercial Bank of China	USD 158	1,218.70	2022.04.22	2024.02.01	₩ -	₩ 18,311				
	Shinhan Bank	USD 500	1,135.60	2020.10.14	2024.10.15	86,263	-				
	KB Kookmin Bank	USD 500	1,102.83	2020.11.24	2029.04.16	68,342	-				
Currency swap	SMBC	USD 200	1,118.00	2021.05.28	2024.05.28	40,620	-				
	KDB Bank	USD 130	1,135.60	2021.06.24	2025.06.24	34,049	-				
	KDB Bank	USD 35	1,135.60	2021.06.24	2026.06.24	10,219	-				
	Shinhan Bank	USD 300	1,131.80	2021.07.07	2026.07.07	44,654	-				
	Woori Bank	USD 100	1,131.80	2021.07.07	2026.07.07	15,146	-				
	Industrial and Commercial Bank of China	USD 100	1,131.80	2021.07.07	2026.07.07	15,248	-				
	Shinhan Bank	USD 100	1,131.80	2021.07.07	2031.07.07	11,755	-				
	Woori Bank	USD 200	1,131.80	2021.07.07	2031.07.07	24,213	-				
	KDB Bank	USD 200	1,131.80	2021.07.07	2031.07.07	24,264	-				
	KDB Bank	USD 250	1,289.70	2022.06.15	2025.06.15	16,433	-				
	Shinhan Bank	USD 110	1,289.70	2022.06.15	2027.06.15	7,690	-				
	The Export- Import Bank of Korea	USD 200	1,305.90	2022.07.14	2025.07.14	2,491	-				
	Shinhan Bank	USD 100	1,305.90	2022.07.14	2025.07.14	1,252	-				
	KDB Bank	USD 200	1,233.40	2023.01.26	2025.01.26	24,600	-				
	Shinhan Bank	USD 100	1,233.40	2023.01.26	2026.01.26	12,548	-				
	KDB Bank	USD 100	1,233.40	2023.01.26	2026.01.26	12,823	-				
	JP Morgan	USD 200	1,337.60	2023.09.25	2026.09.25	736	-				
	Shinhan Bank	USD 200	1,337.60	2023.09.25	2026.09.25	-	74				
	KDB Bank	USD 400	1,337.60	2023.09.25	2028.09.25	-	5,094				

1,137.60 2023.09.25

2028.09.25

2,537

USD 200

Woori Bank

December 31, 2022

			Dec	ember 31, 2022	2		
			Contract	Contract		Book a	mount
	Contractor	Contract amount	exchange rate	inception date	Contract maturity	Assets	Liabilities
Currency	Citi Bank	USD 105	1,234.60	2022.04.22	2023.02.01	₩ -	₩ 3,348
Forward	Industrial and Commercial Bank of China	USD 158	1,218.70	2022.04.22	2024.02.01	-	4,364
	Shinhan Bank	USD 500	1,135.60	2020.10.14	2024.10.15	47,695	-
	KB Kookmin Bank	USD 500	1,102.83	2020.11.24	2029.04.16	41,780	-
	ING	EUR 100	$4.7800^{1}$	2022.01.05	2023.01.05	-	2,522
Currency swap	SMBC	USD 200	1,118.00	2021.05.28	2024.05.28	22,974	-
	KDB Bank	USD 130	1,135.60	2021.06.24	2025.06.24	26,317	-
	KDB Bank	USD 35	1,135.60	2021.06.24	2026.06.24	7,898	-
	Shinhan Bank	USD 300	1,131.80	2021.07.07	2026.07.07	26,599	-
	Woori Bank	USD 100	1,131.80	2021.07.07	2026.07.07	9,067	-
	Industrial and Commercial Bank of China	USD 100	1,131.80	2021.07.07	2026.07.07	9,175	-
	Shinhan Bank	USD 100	1,131.80	2021.07.07	2031.07.07	6,192	-
	Woori Bank	USD 200	1,131.80	2021.07.07	2031.07.07	12,852	-
	KDB Bank	USD 200	1,131.80	2021.07.07	2031.07.07	12,926	-
	KDB Bank	USD 250	1,289.70	2022.06.15	2025.06.15	-	3,374
	Shinhan Bank The Export-	USD 110	1,289.70	2022.06.15	2027.06.15	-	1,700
	Import Bank of Korea	USD 200	1,305.90	2022.07.14	2025.07.14	-	10,360
	Shinhan Bank	USD 100	1,305.90	2022.07.14	2025.07.14	-	5,003

<sup>&</sup>lt;sup>1</sup>Cross exchange rate between PLN and EUR.

#### 2) Price risk

The Group is exposed to equity securities price risk that arises from investments held by the Group and classified as non-current financial assets. The Group's equity investments are publicly traded and are related to the National Association of Securities Dealers Automated Quotations ("NASDAQ"), New York Stock Exchange ("NYSE"), Shenzhen Stock Exchange ("SZSE"), Hang Seng Index ("HSI"), Australian Stock Exchange ("ASX") and KOSPI stock indexes.

The table below summarizes the impact of increases/decreases of the listed stock price index on the Group's equity before tax effects as at September 30, 2023, and December 31, 2022. The analysis is based on the assumption that the equity index has increased/decreased by 10% with all other variables held constant, and that all the Group's equity instruments moved in line with the index.

		Septemb	2023	<b>December 31, 2022</b>				
(In millions of Korean won)	10% Increase		10% Decrease		10%	Increase	10% Decrease	
NASDAQ	₩	14,292	₩	(14,292)	₩	2,561	₩	(2,561)
ASX		2,231		(2,231)		1,167		(1,167)
NYSE		3,343		(3,343)		4,416		(4,416)
SZSE		13,188		(13,188)		3,747		(3,747)
HSI		9,431		(9,431)		8,349		(8,349)
KOSPI		15,850		(15,850)		17,667		(17,667)
Total	₩	58,335	₩	(58,335)	₩	37,907	₩	(37,907)

#### 3) Interest rate risk

Interest rate risk is defined as the risk that the interest income or expenses arising from deposits and borrowings will fluctuate because of changes in future market interest rate. The interest rate risk mainly arises through floating rate deposits and borrowings. The objective of interest rate risk management lies in maximizing corporate value by minimizing uncertainty in interest rate fluctuations and net interest expense.

The Group adequately minimizes risks from interest rate fluctuations through various policies, such as sharing excess cash within the Group (internal cash sharing) to minimize external borrowings, avoiding high-rate borrowings, reforming capital structure, managing an appropriate ratio of fixed-rate borrowings and floating rate borrowings, monitoring a fluctuation of domestic and foreign interest rates daily, weekly and monthly, establishing alternatives and balancing floating rate short-term borrowings with floating rate deposits.

The table below summarizes the impact of increases/decreases of interest rate on the Group's equity and post-tax profit for the nine-month periods ended September 30, 2023 and 2022. The analysis is based on the assumption that the interest rate has increased/decreased by 1% (100 basis points) with all other variables held constant.

		I	mpact on p	ost-ta	x profit	Impact on equity				
		Sept	ember 30,	De	cember 31,	Se	ptember	Dec	ember 31,	
(In millions of Korean won)		2023		2022		30, 2023		2022		
Increase	Deposits	₩	16,237	₩	44,606	₩	16,237	₩	44,606	
	Borrowings		(45,345)		(41,996)		(45,345)		(41,996)	
	Total	₩	(29,108)	₩	2,610	₩	(29,108)	₩	2,610	
Decrease	Deposits	₩	(16,237)	₩	(44,606)	₩	(16,237)	₩	(44,606)	
	Borrowings		45,345		41,996		45,345		41,996	
	Total	₩	29,108	₩	(2,610)	₩	29,108	₩	(2,610)	

#### (2) Credit risk

Credit risk arises from trade receivables that the Group holds, as well as debt instruments at amortized cost or fair value through other comprehensive income.

#### 1) Trade receivables

The Group applies the simplified approach in measuring expected credit losses, which uses a lifetime expected loss allowance for trade receivables. To measure the expected credit losses, trade receivables have been grouped based on shared credit risk characteristics and the days past due. The loss allowance on trade receivables as at September 30, 2023, and at December 31, 2022, are as follows. Expected credit losses include forward-looking information.

		eceivables t past due <sup>1</sup>	Receivables past due, but not impaired <sup>1</sup>		Impaired receivables <sup>2</sup>		Total	
September 30, 2023 (trade receivables)								
Gross carrying amount	₩	8,659,405	₩	398,900	₩	1,363	₩	9,059,668
Expected loss rate		0.0%		0.1%		90.5%		0.0%
Loss allowance	₩	1,151	₩	565	₩	1,233	₩	2,949
December 31, 2022 (trade receivables)								
Gross carrying amount	₩	7,349,259	₩	223,992	₩	2,859	₩	7,576,110
Expected loss rate		0.0%		0.3%		88.4%		0.1%
Loss allowance	₩	1,900	₩	591	₩	2,526	₩	5,017

<sup>&</sup>lt;sup>1</sup> See Note 7.(3) for aging analysis.

Movements in the loss allowance on trade receivables for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	Trade receivables								
(In millions of Korean won)	Septer	mber 30, 2023	<b>December 31, 2022</b>						
Beginning balance	₩	5,017	₩	5,094					
Increase in (reversal of) loss allowance recognized in profit or loss		(542)		-					
Business combination (Note 37)		-		724					
Receivables written off as uncollectible		(1,234)		(849)					
Exchange differences		(292)		48					
Ending balance	₩	2,949	₩	5,017					

As at September 30, 2023, the carrying amount of trade receivables representing the maximum exposure to credit risk amounts to \(\pm 9,056,719\) million (December 31, 2022: \(\pm 7,571,093\) million).

<sup>&</sup>lt;sup>2</sup> Impaired receivables are those for which impairment indicators have been confirmed, such as significant lack of collectability.

#### 2) Other financial assets at amortized cost

Movements in loss allowance on other financial assets at amortized cost for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	Other receivables								
(In millions of Korean won)	Septeml	per 30, 2023	<b>December 31, 2022</b>						
Beginning balance	₩	682	₩	2,165					
Increase in loss allowance recognized in profit or loss as 'other expenses'		-		(331)					
Receivables written off as uncollectible		(54)		(1,152)					
Ending balance	₩	628	₩	682					

All of the financial assets at amortized costs are considered to have low credit risk, and the loss allowance recognized during the period was, therefore, limited to 12-month expected losses.

The Group has established the following policies and procedures to manage credit risks.

To manage credit risks relating to trade receivables, the Group evaluates the credit rating of customers and determines credit limit for each customer based on the information provided by credit rating agencies and other available financial information before commencing business with new customers. The credit risks relating to trade receivables are also mitigated by insurance contracts and collateral, as well as payment guarantees.

The Group has entered into export bond insurance contracts with Korea Trade Insurance Corporation to mitigate credit risks relating to export trade receivables to overseas customers.

The Group is also provided with collateral by customers depending on their credit rating or payment

The Group is also provided with collateral by customers depending on their credit rating or payment guarantees from the customers' financial institutions if necessary.

The Group has deposited its cash and cash equivalents and other long-term deposits in several financial institutions, such as Woori Bank and others. The Group has also entered into derivative contracts with several financial institutions. The Group maintains business relationship with financial institutions with high credit ratings evaluated by independent credit rating agencies, and accordingly, credit risks associated with these financial institutions are limited.

#### (3) Liquidity risk

Finance team of the Group monitors rolling forecasts of the Group's liquidity requirements to ensure it has sufficient cash to meet operational needs while maintaining sufficient headroom on its undrawn committed borrowing facilities at all times so that the Group does not breach borrowing limits or covenants (where applicable) on any of its borrowing facilities. The Group's liquidity management policy involves projecting cash flows in major currencies and considering the level of liquid assets necessary to meet these, monitoring statement of financial position liquidity ratios against internal and external regulatory requirements and maintaining debt financing plans.

The table below analyzes the Group's financial liabilities into relevant maturity groupings based on the remaining period at the end of the reporting period to the contractual maturity date. Cash flows presented below are gross cash flows before discount and includes cash flows for interests.

	<b>September 30, 2023</b>										
(In millions of Korean won)	Less than 1 year			Between 1–2 years		Between 2–5 years	More than 5 years				
(======================================		- 3		J		- <b>J</b>		<b>J</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Non-derivative financial instruments Borrowings (excluding lease											
liabilities)	₩	5,064,682	₩	4,486,389	₩	10,342,821	₩	5,245,684			
Lease liabilities		106,538		107,889		85,907		229,624			
Trade and other payables <sup>1</sup>		9,496,681		94,440		13,139		933			
		14,667,901		4,688,718		10,441,867		5,476,241			
Derivative instruments											
Gross settlement currency forwards and swaps											
(Inflows)		(585,433)		(1,958,072)		(2,288,352)		(1,392,709)			
Outflows		513,777		1,742,706		2,142,064		1,155,602			
		(71,656)		(215,366)		(146,288)	<u>-</u>	(237,107)			
	₩	14,596,245	₩	4,473,352	₩	10,295,579	₩	5,239,134			

<sup>&</sup>lt;sup>1</sup> Included ₩133,660 million of financial liabilities due to a financial institution relating to reverse factoring arrangement as at September 30, 2023. As at December 31, 2022, there is no utilized amount in the reverse factoring arrangement.

Although it is not included in the above cash flow, the agreement is made to purchase additional shares of LG Toray Hungary Battery Separator Kft. in accordance with the agreed price calculation method (Note 18). Additionally, during the nine-month period ended September 30, 2023, the group issued exchangeable bonds that allow issuers and investors to exercise their early redemption rights (Note 14).

	December 31, 2022											
(In millions of Korean won)	Less than 1 year		Between 1–2 years			Between 2–5 years	More than 5 years					
Non-derivative financial instruments Borrowings (excluding lease liabilities) Lease liabilities Trade and other payables <sup>1</sup>	₩ 4,098,366 138,892 9,655,799 13,893,057		₩ 3,315,867 70,516 41,085 3,427,468		₩ 5,730,247 100,099 1,546 5,831,892		₩ 3,963,315 120,992 1,077 4,085,384					
Derivative instruments Gross settlement currency forwards and swaps (Inflows) Outflows	W	(344,898) 328,856 (16,042) 13,877,015		(1,157,662) 1,047,373 (110,289) 3,317,179	₩	(1,787,213) 1,694,337 (92,876) 5,739,016		(1,327,497) 1,168,399 (159,098) 3,926,286				

As of September 30, 2023, and December 31, 2022, the Group has entered into swap contracts for which cash flow hedge accounting is applied, to avoid market price fluctuation of raw materials.

					<b>September 30, 2023</b>		December 31, 2022		
(In millions o Korean won)	f Purpose of the contracts	Hedged items	Financial institution	Maturity	Ass	sets	Liabilities	Assets	Liabilities
Merchandise (raw materials) swap <sup>1</sup>	Cash flow hedge	Non- ferrous metal	Citi Bank and others	2025. 12	₩	45	₩ 4,886	₩13,931	₩ 2,143

<sup>&</sup>lt;sup>1</sup> Gain (loss) resulting from the contracts to avoid cash flow fluctuation risk of expected future transaction is accounted for as accumulated other comprehensive income which corresponds to an effective portion of the hedges (Note 5).

Details of financial guarantee contracts by maturity as at September 30, 2023, and December 31, 2022, are as follows:

		<b>September 30, 2023</b>										
(In millions of Korean won)	Less than 1 year		Between 1–2 years		More than 5 years							
Financial guarantee contracts (*)	₩	478,076	₩	- <del>W</del>	- ₩ -							
(In millions of Korean won)	L	ess than 1 year	Between 1–2 year		More than 5 years							
Financial guarantee contracts (*)	₩	450,525	₩	- ₩	- ₩ -							

<sup>(\*)</sup> The financial guarantee contracts above are for joint ventures and are presented based on the maximum amount of guarantee that can be requested as at September 30, 2023 (Note 18).

#### 3.2 Capital Risk Management

The Group's objectives for managing capital are to safeguard the Group's ability to continue as a going concern, so the Group can continue to provide returns for shareholders and benefits for other stakeholders, and to maintain an optimal capital structure to reduce the cost of capital.

Consistent with others in the industry, the Group monitors capital on the basis of the gearing ratio. This ratio is calculated as net debt divided by total capital. Net debt is calculated as total borrowings, less cash and cash equivalents. Total capital is calculated as 'equity' as shown in the consolidated statements of financial positions, plus net debt.

The gearing ratio and debt-to-equity ratio as of September 30, 2023, and December 31, 2022, were as follows:

Septe	mber 30, 2023	<b>December 31, 2022</b>		
₩	21,907,656	₩	15,964,519	
	(8,880,920)		(8,497,882)	
	13,026,736		7,466,637	
	36,134,815		30,492,696	
	41,365,206		37,481,127	
₩	54,391,942	₩	44,947,764	
	23.9%		16.6%	
	87.4%		81.4%	
	W	(8,880,920) 13,026,736 36,134,815 41,365,206 ₩ 54,391,942 23.9%	₩ 21,907,656 ₩ (8,880,920) 13,026,736 36,134,815 41,365,206 ₩ 54,391,942 ₩ 23.9%	

#### 3.3 Fair Value

(1) Carrying amount and fair value of financial instruments by category as of September 30, 2023, and December 31, 2022, are as follows:

		September	30, 2023	<b>December 31, 2022</b>			
(In millions of Korean won)		Carrying amount	Fair value		Carrying amount	Fair value	
Financial assets (current)							
Cash and cash equivalents	₩	8,880,920	1	₩	8,497,882	1	
Deposits held by financial institutions		2,151	1		14,448	1	
Trade receivables		8,923,809	1		7,450,395	1	
Other receivables (excluding deposits							
held by financial institutions)		987,949	1		727,983	1	
Current derivative financial assets							
(excluding currency forward)		40,661	40,661		9,167	9,167	
Financial assets (non-current)							
Deposits held by financial institutions	₩	272,375	1	₩	277,210	1	
Trade receivables		132,910	1		120,698	1	
Other receivables (excluding deposits		- ,-			- ,		
held by financial institutions)		659,070	1		340,234	1	
Other non-current financial assets (carried at fair value)							
Marketable financial assets		552,899	552,899		462,330	462,330	
Non-marketable financial assets <sup>3</sup>		605,365	605,365		495,484	495,484	
Non-current derivative financial assets		ŕ	ŕ		,	,	
(currency forward)		154,606	154,606		89,475	89,475	
Non-current derivative financial assets							
(excluding currency forward)		258,127	258,127		138,764	138,764	
Non-current derivative financial							
assets (acquisition of interests)		54,240	54,240		51,114	51,114	
Financial liabilities (current)							
Trade and other payables	₩	9,496,681	1	₩	9,655,799	1	

_	September	30, 2023	<b>December 31, 2022</b>			
(In millions of Korean won)	Carrying amount	Fair value	Carrying amount	Fair value		
Current borrowings				1		
(excluding lease liabilities)	4,492,411	1	3,709,288	1		
Current lease liabilities	97,735	2	95,079	2		
Current derivative financial liabilities (currency forward) Current derivative financial liabilities	18,311	18,311	5,870	5,870		
(excluding currency forward)	3,960	3,960	1,401	1,401		
Financial guarantee contracts liabilities	2,428	1	- -	-		
Financial liabilities (non-current) Non-current borrowings						
(excluding lease liabilities/	₩ 14.856.187	W 12 (92 546	W 11 965 502	W 11 002 012		
exchangeable bond) Non-current borrowings	₩ 14,856,187	₩ 13,682,546	₩ 11,865,593	W 11,092,812		
(exchangeable bond)	2,084,072	2,067,094	_	_		
Non-current lease liabilities	377,251	2,007,001	294,559	2		
Other non-current payables	108,512	1	43,708	1		
Non-current derivative financial	100,512		45,700			
liabilities (currency forward)	-	_	4,364	4,364		
Non-current derivative financial liabilities (excluding currency			,	,		
forward)	8,630	8,630	21,178	21,178		
Non-current derivative financial						
liabilities (acquisition of interests)	9,068	9,068	7,777	7,777		
Non-current derivative financial liabilities (right of exchange/option)	514,639	514,639	-	-		

<sup>&</sup>lt;sup>1</sup> These financial assets and liabilities are not included in the disclosure above as their carrying amount is a reasonable approximation of the fair value.

# (2) For measurement and disclosure purposes, fair value was determined based on the method described below.

The fair value of non-current financial liabilities was calculated by applying the following discount rate to the nominal value of expected future outflow cash flows.

<sup>&</sup>lt;sup>2</sup> Fair values for these financial assets and liabilities are not disclosed above in accordance with related K-IFRS.

<sup>&</sup>lt;sup>3</sup> Acquisition costs of a part of these financial assets approximate their fair values.

Discount Rate	<b>September 30, 2023</b>	<b>December 31, 2022</b>	Remark
Non-current borrowings (excluding lease liabilities/ exchangeable bond)	4.10%-5.67%	4.94%-5.33%	Yield of Won debenture with credit rating (AA+)
Non-current borrowings(Exchangeable Bond)	5.67%/5.57%	-	Yield of foreign currency debenture equal to the maturity of the evaluation target

#### (3) Fair value hierarchy

Items that are measured at fair value are categorized by the fair value hierarchy levels, and the defined levels are as follows:

- Quoted prices (unadjusted) in active markets for identical assets or liabilities that an entity can access at the measurement date (Level 1).
- All inputs other than quoted prices included in Level 1 that are observable (either directly that is, prices, or indirectly that is, derived from prices) for the asset or liability (Level 2).
- Unobservable inputs for the asset or liability (Level 3).

Fair value hierarchy of the financial instruments that are measured at fair value and their fair values disclosed as at September 30, 2023, and December 31, 2022, are as follows:

	<b>September 30, 2023</b>								
(In millions of Korean won)		Level 1		Level 2		Level 3		Total	
Financial assets/liabilities measured at fair value									
Other non-current financial assets (marketable financial assets)	₩	552,899	₩	-	₩	-	₩	552,899	
Other non-current financial assets (non-marketable financial						605.265		(05.265	
assets) <sup>1</sup>		-		-		605,365		605,365	
Current derivative financial assets				40.661				40.661	
(excluding currency forward) Non-current derivative financial		-		40,661		-		40,661	
assets (currency forward)				154,606				154,606	
Non-current derivative financial		_		134,000		_		134,000	
assets (excluding currency									
forward)		_		258,127		_		258,127	
Non-current derivative financial									
assets (acquisition of interests)		-		-		54,240		54,240	
Current derivative financial									
liabilities (currency forward)		-		18,311		-		18,311	
Current derivative financial									
liabilities (excluding currency									
forward)		-		3,960		-		3,960	
Non-current derivative financial									
liabilities (excluding currency									
forward)		-		8,630		-		8,630	
Non-current derivative financial									
liabilities (acquisition of						0.060		0.060	
interests)		-		-		9,068		9,068	
Non-current derivative financial									
liabilities (right of exchange/option	)	-		-		514,639		514,639	

		December 31, 2022						
(In millions of Korean won)		Level 1		Level 2		Level 3		Total
Financial assets/liabilities								
measured at fair value								
Other non-current financial assets	117	462.220	117		117		117	462 220
(marketable financial assets)	₩	462,330	₩	_	₩	-	₩	462,330
Other non-current financial assets								
(non-marketable financial						405 494		405 494
assets) <sup>1</sup> Current derivative financial assets		-		-		495,484		495,484
				0.167				0.167
(excluding currency forward) Non-current derivative financial		-		9,167		-		9,167
assets (currency forward)				89,475				89,475
Non-current derivative financial		-		89,473		-		69,473
assets (excluding currency								
forward)		_		138,764		_		138,764
Non-current derivative financial				130,704				130,704
assets (purchase of interests)		_		_		51,114		51,114
Current derivative financial						51,111		31,111
liabilities (currency forward)		_		5,870		_		5,870
Current derivative financial				2,0,0				2,0.0
liabilities (excluding currency								
forward)		-		1,401		_		1,401
Non-current derivative financial				Ź				,
liabilities (currency forward)		-		4,364		-		4,364
Non-current derivative financial								
liabilities (excluding currency								
forward)		-		21,178		-		21,178
Non-current derivative financial								
liabilities (acquisition of								
interests)		-		-		7,777		7,777

<sup>&</sup>lt;sup>1</sup> Acquisition costs of a part of these financial assets approximate their fair values. For fair values measured using other methods, see (3) valuation technique and the inputs.

## (4) Valuation technique and the inputs

Valuation techniques and inputs used in the fair value measurements categorized within Level 3 of the fair value hierarchy as at September 30, 2023, and December 31, 2022, are as follows:

_	<b>September 30, 2023</b>								
(In millions of Korean won)	Fair v	value	Level	Valuation technique	Inputs	Coverage of Level 3 inputs (weighted average)			
Non-current derivative financial assets (acquisition of interests)	₩	49,402	3	Monte Carlo Simulation	Stock volatility of underlying assets	40.54%			
or interested					Stock price correlation coefficient	35.81%			
					Volatility of financial indicators	44.11%			
		4,838	3	Binominal option-pricing model	Volatility	45.60%			
Non-current derivative financial liabilities (acquisition of interests)		9,068	3	Monte Carlo Simulation	Stock volatility of underlying assets	40.54%			
(acquisition of interests)					Stock price correlation coefficient	57.86%			
					Volatility of financial indicators	21.90%			
Other non-current financial assets (non-listed shares)		14,512	3	Binominal option-pricing model	Volatility	25.92%			
	1	93,888	3	Adjusted net asset method	-	-			
Non-current borrowings (right of exchange/option)	5	14,639	3	Equity and bond cashflow weighted	Stock price of underlying assets	549,000 won			
				discount method	Risk-free rate	3.93%/4.00%			
					Risk rate	5.67%/5.57%			
					Volatility	33.99%			

**December 31, 2022** 

			December	31, 2022	
(In millions of Korean won)	Fair value	Level	Valuation Technique	Inputs	Coverage of Level 3 inputs (weighted average)
Non-current derivative financial assets (acquisition of interests)	₩ 46,555	3	Monte Carlo Simulation	Stock volatility of underlying assets	40.54%
,				Stock price correlation coefficient	35.81%
				Volatility of Financial Indicators	44.11%
	4,559	3	Binominal option-pricing model	Volatility	45.60%
Non-current derivative financial liabilities (acquisition of interests)	7,777	3	Monte Carlo Simulation	Stock volatility of underlying assets	40.54%
				Stock price correlation coefficient	57.86%
				Volatility of Financial Indicators	21.90%
Other non-current financial assets (non-listed shares)	14,437	3	Binominal option-pricing model	Volatility	25.92%
	46,682	3	Discounted cash flows model	Discount rates	13.53%
	189,476	3	Adjusted net asset method	-	-

### (5) Changes in Level 3 of the Fair Value Hierarchy for the Recurring Fair Value Measurements

		Septembe	r 30, 2	2023	<b>December 31, 2022</b>			
(In millions of Korean won)	Financial assets measured at fair value		1	Financial iabilities sured at fair value	me	ncial assets easured at nir value	Financial liabilities measured at fair value	
Beginning balance	₩	546,598	₩	7,777	₩	356,983	₩	-
Transfer (from) into Level 3		(79,123)		604,407		81,721		43,044
Gains (losses) recognized in profit for the year		37,128		(88,477)		10,310		-
Gains recognized in other comprehensive income		16,070		-		37,300		-
Ending balance	₩	659,605	₩	523,707	₩	486,314	₩	43,044

## 4. <u>CRITICAL ACCOUNTING ESTIMATES AND ASSUMPTIONS:</u>

The preparation of condensed consolidated interim financial statements requires the Group to make estimates and assumptions concerning the future. Management also needs to exercise judgement in applying the Group's accounting policies. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates may differ from the related actual results.

Significant accounting estimates and assumptions applied in the preparation of these condensed consolidated interim financial statements are the same as those applied to the consolidated financial statements as of and for the year ended December 31, 2022, except for the estimates used to determine income tax expense.

### 5. FINANCIAL INSTRUMENTS BY CATEGORY:

Categorizations of financial instruments as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)				<b>September 30, 2023</b>								
Financial assets		Financial assets at amortized cost		Financial assets at fair value through profit or loss		Financial assets at fair value through other comprehensive income		ther financial assets <sup>1</sup>		Total		
Cash and cash equivalents	₩	8,880,920	₩	_	₩	-	₩	_	₩	8,880,920		
Trade receivables		8,070,051		-		853,758		-		8,923,809		
Non-current trade receivables		132,910		-		-		-		132,910		
Other receivables		989,598		-		502		-		990,100		
Other non-current receivables		931,445		-		-		-		931,445		
Other current financial assets		-		-		-		40,661		40,661		
Other non-current financial assets		-		383,886		774,378		466,973		1,625,237		
Total	₩	19,004,924	₩	383,886	₩	1,628,638	₩	507,634	₩	21,525,082		

September 30, 2023								
Financial liabilities at amortized cost		Other fi	nancial liabilities <sup>2</sup>	Total				
₩	5,011,679	₩	-	₩	5,011,679			
	4,485,002		-		4,485,002			
	4,325,313		264,833		4,590,146			
	-		24,699		24,699			
	-		532,337		532,337			
	108,512		-		108,512			
	16,940,259		377,251		17,317,510			
₩	30,870,765	₩	1,199,120	₩	32,069,885			
	₩	amortized cost	Financial liabilities at amortized cost Other fine    W 5,011,679 W 4,485,002 4,325,313 - 108,512 16,940,259	Financial liabilities at amortized cost  W 5,011,679 W - 4,485,002 - 4,325,313 264,833 - 24,699  - 532,337 108,512 - 16,940,259 377,251	Financial liabilities at amortized cost  Other financial liabilities²  W 5,011,679 W - W - 4,485,002 - 4,325,313 - 264,833 - 24,699  - 532,337 - 532,337 - 108,512 - 16,940,259 - 377,251			

(In millions of Korean won)	December 31, 2022									
					Fin	ancial assets at				
Financial assets	Financial assets at a assets at a amortized value thro		Financial sets at fair ue through ofit or loss	n comprehensive			Other financial assets <sup>1</sup>	Total		
Cash and cash equivalents	₩	8,497,882	₩	-	₩	-	₩	-	₩	8,497,882
Trade receivables		6,919,243		-		531,152		-		7,450,395
Non-current trade receivables		120,698		-		-		-		120,698
Other receivables		741,000		-		1,431		-		742,431
Other non-current receivables		617,444		-		-		-		617,444
Other current financial assets		-		-		-		9,167		9,167
Other non-current financial assets		-		245,459		712,355		279,353		1,237,167
Total	₩	16,896,267	₩	245,459	₩	1,244,938	₩	288,520	₩	18,675,184

(In millions of Korean won)	<b>December 31, 2022</b>								
Financial liabilities		ancial liabilities at amortized cost	Other	financial liabilities <sup>2</sup>		Total			
Trade payables	₩	4,756,246	₩	-	₩	4,756,246			
Other payables		4,899,553		-		4,899,553			
Borrowings (current)		3,709,288		95,079		3,804,367			
Other current financial liabilities		-		7,271		7,271			
Other non-current financial liabilities		-		33,319		33,319			
Other non-current payables		43,708		-		43,708			
Borrowings (non-current)		11,865,593		294,559		12,160,152			
Total	₩	25,274,388	₩	430,228	₩	25,704,616			

<sup>&</sup>lt;sup>1</sup>Other financial assets include derivative assets that are not subject to the categorizations.

<sup>&</sup>lt;sup>2</sup> Other financial liabilities include lease liabilities, derivative liabilities and negotiated borrowings that are not subject to the categorizations.

Net gains or losses on each category of financial instruments for the nine-month periods ended September 30, 2023, and September 30, 2022, are as follows:

(In millions of Korean won)	2023				2022					
	Three months		Nine months		Three months		Nine months			
Dividend income										
Financial assets at fair value through other comprehensive income	₩	3,231	₩	16,284	₩	1,211	₩	1,538		
Financial assets at fair value through profit or loss		-		289		-		-		
Impairment loss (reversal)										
Financial assets at amortized cost	₩	18	₩	(542)	₩	(185)	₩	104		
Interest income										
Financial assets at amortized cost	₩	94,953	₩	229,138	₩	71,927	₩	190,136		
Interest expense										
Financial liabilities at amortized cost	₩	(201,984)	₩	(483,394)	₩	(81,565)	₩	(206,488)		
Other financial liabilities		(2,209)		(6,216)		(2,301)		(6,976)		
Financial assets at amortized cost <sup>1</sup>		(5,761)		(29,160)		(2,810)		(5,396)		
Gain on valuation/disposal										
Financial assets at fair value through profit or loss	₩	30,329	₩	34,051	₩	9,990	₩	10,334		
Financial assets at fair value through other comprehensive income		(55,383)		(88,036)		(10,983)		(11,592)		
Derivative instruments		157,920		300,538		351,151		485,401		
Exchange differences										
Financial assets at amortized cost	₩	231,754	₩	581,935	₩	990,818	₩	1,646,352		
Financial liabilities at amortized cost		(598,323)		(588,650)		(1,296,782)		(2,055,865)		
Derivative instruments		-		(517)		7,512		18,051		
Other financial liabilities		2,689		892		(18,641)		(29,830)		
1 Face maid to financial institutions for fact	· · · ·									

<sup>&</sup>lt;sup>1</sup> Fees paid to financial institutions for factoring.

## 6. CASH AND CASH EQUIVALENTS:

Details of cash and cash equivalents as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septen	nber 30, 2023	<b>December 31, 2022</b>		
Bank deposits and cash on hand Deposits held by financial institutions and others	₩	3,042,432 5,838,488	₩	1,640,251 6,857,631	
1	***	, ,	***		
Total	₩	8,880,920	₩	8,497,882	

As at September 30, 2023, cash and cash equivalents include \( \partial 18,848 \) million (December 31, 2022: \( \partial 11,364 \) million), which is subject to a restriction on the use in association with the national R&D projects.

### 7. TRADE AND OTHER RECEIVABLES:

Trade and other receivables and loss allowance, as at September 30, 2023, and December 31, 2022, are as follows:

	<b>September 30, 2023</b>									
(In millions of Korean won)		Gross amount	all	Loss lowance		Carrying amount				
Trade receivables	₩	8,926,758	₩	(2,949)	₩	8,923,809				
Non-current trade receivables		132,910		-		132,910				
Other current receivables		990,728		(628)		990,100				
Other non-current receivables		931,445				931,445				
Total	₩	10,981,841	₩	(3,577)	₩	10,978,264				

	<b>December 31, 2022</b>									
(In millions of Korean won)		Gross amount		Loss allowance		Carrying amount				
Trade receivables	₩	7,455,412	₩	(5,017)	₩	7,450,395				
Non-current trade receivables		120,698		-		120,698				
Other current receivables		743,113		(682)		742,431				
Other non-current receivables		617,444				617,444				
Total	₩	8,936,667	₩	(5,699)	₩	8,930,968				

Details of other receivables as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septe	mber 30, 2023	<b>December 31, 2022</b>		
Current					
Non-trade receivables	₩	651,912	₩	487,646	
Deposits held by financial institutions <sup>1</sup>		2,151		14,448	
Accrued income		76,380		68,294	
Loans		210,953		129,908	
Guarantee deposits provided		48,704		42,135	
		990,100		742,431	
Non-current				_	
Non-trade receivables	₩	541,326	₩	30,793	
Deposits held by financial institutions <sup>1</sup>		272,375		277,210	
Loans		12,737		207,247	
Guarantee deposits provided		105,007		102,194	
		931,445		617,444	
Total	₩	1,921,545	₩	1,359,875	

 $<sup>^1</sup>$  As at September 30, 2023, orall 266,100 million (December 31, 2022: orall 266,100 million) is withdrawal restriction in relation to large-, small- and medium-sized companies cooperation agreement, m W115 million is restricted in use to be retained in connection with maintaining checking accounts (December 31, 2022: m W123 million), and m W5,000 million is restricted in use to be retained in connection with employee loan deposits (December 31, 2022: m W10,000 million). Also, PLN 4 million is restricted in use to be retained in relation to overseas transportation of hazardous waste (December 31, 2022: PLN 3 million).

The aging analysis of trade and other receivables as at September 30, 2023, and December 31, 2022, is as follows:

	September	30, 2023	<b>December 31, 2022</b>				
(In millions of Korean won)	Trade receivables	Other receivables	Trade receivables	Other receivables			
Receivables not past due	₩ 8,659,405	₩ 1,883,145	₩ 7,349,259	₩ 1,309,179			
Past due, but not impaired							
Up to three months	366,665	26,431	220,785	31,873			
Between 3–6 months	26,262	6,573	2,445	10,989			
More than nine months	5,973	5,396	762	7,834			
	398,900	38,400	223,992	50,696			
Impaired receivables	1,363	628	2,859	682			
Total	₩ 9,059,668	₩ 1,922,173	₩ 7,576,110	₩ 1,360,557			

Movements of loss allowance on trade and other receivables for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	<b>September 30, 2023</b>										
		Trade red	ceivables		Other receivables						
(In millions of Korean won)	Current		Non-current	Current		Non-current					
Beginning balance	₩	5,017	-	₩	682	-					
Reversal of impairment		(542)	-		-	-					
Write-off		(1,234)	-		(54)	-					
Exchange differences		(292)	_		<u> </u>	<u> </u>					
Ending balance	₩	2,949	_	₩	628	_					

<b>December 31, 2022</b>									
	Trade re	ceivables	Other receivables						
Cu	ırrent	Non-current	C	urrent	Non-current				
₩	5,094	-	₩	2,165	-				
	-	-		(331)	-				
	724	-		-	-				
	(849)	-		(1,152)	-				
	48	-		-	-				
₩	5,017	-	₩	682	_				
	₩	Current  ₩ 5,094  - 724 (849) 48	Trade receivables           Current         Non-current           ₩         5,094         -           -         -         -           724         -         -           (849)         -         -           48         -         -	Trade receivables         Current       Non-current       C         ₩       5,094       -       ₩         -       -       -         724       -       -         (849)       -       -         48       -       -	Current         Non-current         Current           ₩         5,094         -         ₩         2,165           -         -         (331)           724         -         -           (849)         -         (1,152)           48         -         -				

As at September 30, 2023, and December 31, 2022, the carrying amounts of trade and other receivables are approximation of their fair values.

The Group transferred trade and other receivables to financial institutions for \(\pi\)17,445 million at September 30, 2023 (December 31, 2022: \(\pi\)201,640 million), and derecognized the trade and other receivables from the condensed consolidated interim financial statements at the date of disposal, as substantially all the risks and rewards were transferred.

# 8. OTHER FINANCIAL ASSETS AND LIABILITIES:

Details of other financial assets and liabilities as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septer	mber 30, 2023	<b>December 31, 2022</b>		
Other financial assets					
Financial assets at fair value through other comprehensive income	117	44	117	0.165	
(derivative instruments) (current)	₩	41	₩	9,167	
Financial assets at fair value through profit or loss		40,620			
(derivative instruments) (current) Financial assets at fair value through other comprehensive income		40,020		-	
(derivative instruments) (non-current)		4		4,764	
Financial assets at fair value through other comprehensive income					
(excluding derivative instruments) (non-current)		774,378		712,355	
Financial assets at fair value through profit or loss					
(derivative instruments) (non-current)		466,969		274,589	
Financial assets at fair value through profit or loss		202.007		245 450	
(excluding derivative instruments) (non-current)	117	383,886	7.7.7	245,459	
	₩	1,665,898	₩	1,246,334	
Other financial liabilities					
Financial guarantee contracts	₩	2,428	₩	-	
Financial liabilities at fair value through other comprehensive income					
(derivative instruments) (current)		3,960		1,401	
Financial liabilities at fair value through profit or loss					
(derivative instruments) (current)		18,311		5,870	
Financial liabilities at fair value through other comprehensive income		225		- 10	
(derivative instruments) (non-current)		926		742	
Financial liabilities at fair value through profit or loss		521 /11		22 577	
(derivative instruments) (non-current)	₩	531,411	₩	32,577	
	VV	557,036	VV	40,590	

Changes in equity and debt instruments included in other financial assets as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septe	mber 30, 2023	<b>December 31, 2022</b>			
Beginning balance	₩	958,060	₩	362,452		
Acquisitions/transfer		253,144		680,284		
Disposals Gain on valuation through other comprehensive income		(4,672)		(32,578)		
(before income tax effects)		(88,036)		(51,355)		
Gain (loss) on valuation through profit or loss Exchange differences on translation of foreign		33,084		(4,761)		
operations		6,684		4,018		
Ending balance	₩	1,158,264	₩	958,060		

(\*) The Group has entered into a Put-Option agreement regarding its equity investment for Volta Energy Solutions S.a.r.l for the purpose of guaranteeing the principal amount of investments. The main conditions of the Put-Option agreement are as follows:

Category	Details
Exercise date	For three years from the date on which three years lapse since it was acquired (Date of initial investment: January 27, 2021)
Exercise price	Investment amount deducting dividends (received from the time of investment to the time of exercise) from the investment
Other conditions	Put-option cannot be exercised in case Volta Energy Solutions S.a.r.l is listed

During the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, the Group did not recognize impairment for other financial assets.

## 9. <u>INVENTORIES:</u>

Details of inventories as at September 30, 2023, and December 31, 2022, are as follows:

	September 30, 2023								
(In millions of Korean won)	Gross amount			Valuation allowance	Carrying amount				
Merchandise	₩	460,616	₩	(31,779)	₩	428,837			
Finished/semifinished products		5,771,065		(188,783)		5,582,282			
Work in process		20,427		-		20,427			
Raw materials		2,946,235		(71,900)		2,874,335			
Supplies		343,152		-		343,152			
Goods in transit		1,358,730		-		1,358,730			
Total	₩	10,900,225	₩	(292,462)	₩	10,607,763			

	<b>December 31, 2022</b>								
(In millions of Korean won)	Gross amount			Valuation allowance	Carrying amount				
Merchandise	₩	379,412	₩	(29,242)	₩	350,170			
Finished/semifinished products		7,186,610		(333,643)		6,852,967			
Work in process		32,439		-		32,439			
Raw materials		3,004,491		(44,344)		2,960,147			
Supplies		307,117		-		307,117			
Goods in transit		1,377,791		-		1,377,791			
Total	₩	12,287,860	₩	(407,229)	₩	11,880,631			

The cost of inventories recognized as sales costs during the nine-month period ended September 30, 2023, was \darksquare 26,974,239 million (2022: \darksquare 22,538,654 million).

## 10. <u>INVESTMENTS IN ASSOCIATES AND JOINT VENTURES:</u>

Changes in investments in associates and joint ventures for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

								Septeml	oer 30, 20	23						
(In millions of Korean won)		ginning alance		quisitions ransfer	Di	vidends	pro of a	hare of ofit (loss) associates and joint entures	Shard othe comprel e inco (loss) associ and jo ventu	er hensiv ome of ates oint	-	airment/d sposals	O	Others	End	ing balance
TECHWIN Co., Ltd.	₩	16,526	₩	-	₩	_	₩	(1,581)	₩	_	₩	-	₩	_	₩	14,945
SEETEC Co., Ltd		134,482		-		(5,000)		7,267		_		_		461		137,210
LG Life Sciences						, ,		,								,
Poland Ltd.		17		_		_		_		_		_		_		17
HUAJIN NEW																
ENERGY																
MATERIALS																
(QUZHOU) CO.,																
LTD.		81,179		-		-		(1,324)		1,282		-		-		81,137
VINFAST LITHIUM																
BATTERY PACK																
LIMITED																
LIABILITY																
COMPANY 1		2,428		-		-		(482)		65		(2,011)		-		-
Jiangxi VL Battery																
Co., Ltd. <sup>2</sup>		13,323		-		-		(1,317)		543		(12,549)		-		-
PT.HLI Green Power		187,945		-		-		(22,085)	1	3,304		-		-		179,164
Sam-a Aluminium				46.555				(2								46.627
Company, Limited		-		46,575		-		62		-		-		-		46,637
NEXPO Co., Ltd		-		2,375		-		(138)		-		-		-		2,237
TL Chemical CO., Ltd		47,816		-		-		1,079		-		-		-		48,895
LG Toray Hungary		445.000						(5.640)		0.505				(0.400)		451 464
Battery Separator Kft.		445,999		-		-		(5,640)	1	9,505		-		(8,400)		451,464
KOREA PRECURSOR CO.,																
LTD.		19,838		20,384				(1,531)		(75)				_		38,616
LID.	₩	949,553	₩	69,334	₩	(5,000)	<del>1</del>	(25,690)	₩ 2		₩	(14,560)	<del>1</del>	(7,939)	<del>11/</del>	1,000,322
	v V	242,223	V V	07,334	VV	(3,000)	v V	(43,090)	vv 3	<del>1,</del> 0∠4	v v	(14,300)	v V	(1,237)	v v	1,000,322

<sup>&</sup>lt;sup>1</sup> During the nine-month period ended September 30, 2023, the Group disposed 100% ownership shares of VINFAST LITHIUM BATTERY PACK LLC.

<sup>&</sup>lt;sup>2</sup> The Group decided on the non-reciprocal transfer of Jiangxi VL Battery Co., Ltd. and recognized impairment losses on the carrying amount.

December 31, 2022

						De	cem	iber 31, 202	<u> </u>					
(In millions of Korean won)	Beginning balance		Acquisitions /Transfer		Dividends		Share of profit (loss) of associates and joint ventures				Others		Ending balance	
VINA Plasticizers														
Chemical Co., Ltd. 1	₩	12,822	₩	-	₩	-	₩	2,239	₩	1,761	₩	(16,822)	₩	-
TECHWIN Co., Ltd.		19,024		-		-		(2,447)		(51)		-		16,526
SEETEC Co., Ltd		134,843		-		(5,000)		4,946		-		(307)		134,482
LG Chem BRASIL INTERMEDIACAO DE NEGOCIOS DO SETOR														
QUIMICO LTDA.		579		-		-		-		-		(579)		-
LG Chem Malaysia														
SDN.BHD		150		-		-		-		-		(150)		-
LG Life Sciences Poland														
Ltd.		17		-		-		-		-		-		17
HUAJIN NEW ENERGY MATERIALS (QUZHOU) CO., LTD.		93,835		_		_		(8,879)		(3,777)		_		81,179
VINFAST LITHIUM BATTERY PACK LIMITED LIABILITY		35,050						(0,072)		(0,,,,)				01,177
COMPANY		3,769		-		-		(1,611)		270		-		2,428
Jiangxi VL Battery Co.,														
Ltd		20,310		-		-		(6,820)		(167)		-		13,323
PT.HLI Green Power		201,488		-		-		(28,210)		14,667		-		187,945
TL Chemical CO., Ltd.		48,473		-		-		(657)		-		-		47,816
LG Toray Hungary Battery														
Separator Kft.		-		445,628		-		(4,334)		4,705		-		445,999
KOREA PRECURSOR														
CO., LTD.				20,384				(442)		(104)				19,838
	₩	535,310	₩	466,012	₩	(5,000)	₩	(46,215)	₩	17,304	₩	(17,858)	₩	949,553

 $<sup>^1</sup>$  During the previous year, the Group reclassified the shares of VINA Plasticizers Chemical Co., Ltd. amounting to \$16,822 million as assets held for sale.

Summarized financial information of associates and joint ventures as of September 30, 2023, and December 31, 2022, is disclosed in Note 1.3 and Note 1.4.

The tables below provide a reconciliation of the summarized financial information presented to the carrying amount of its interest in the joint ventures or associates:

			Septer	nber 30, 2023			
	Net Asset (a)	Group's share in % (b)	Group's share in KRW (a x b)	Investment difference	Intercompany transactions, etc.	Carrying amount	
HUAJIN NEW ENERGY MATERIALS (QUZHOU) CO.,	W 164.055	40	W 00.207	W	W 750	W. 01.127	
LTD.	₩ 164,055	49	₩ 80,387	₩ -	₩ 750	₩ 81,137	
SEETEC Co., Ltd. LG Toray Hungary	281,360	50	140,680	(3,470)	-	137,210	
Battery Separator Kft.	777,038	50	388,520	71,344	(8,400)	451,464	
PT.HLI Green Power	457,060	50	228,530	-	(49,366)	179,164	
(In millions of Korean won)	Net Asset	Group's share in %	Group's share in KRW (a x b)	Investment difference	Intercompany transactions, etc.	Carrying amount	
HUAJIN NEW ENERGY MATERIALS (QUZHOU) CO., LTD.	₩ 167,236	49	₩ 81,946	₩ -	₩ (767)	₩ 81,179	
SEETEC Co., Ltd.	276,826	50	138,412	(3,470)	(460)	134,482	
LG Toray Hungary	_, ,,,_,		,	(=,)	(100)	,	
Battery Separator Kft. PT.HLI Green Power	749,309	50 50	374,655 220,313	71,344	-	445,999 187,945	

### 11. PROPERTY, PLANT AND EQUIPMENT:

Changes in property, plant and equipment for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

(In millions of Korean won)	Septe	ember 30, 2023	<b>December 31,2022</b>			
Beginning balance	₩	29,662,743	₩	24,378,259		
Business combination (Note 37)		935		7,251		
Acquisitions/transfer		12,553,712		15,410,699		
Disposals/transfer		(3,857,670)		(6,837,397)		
Exchange differences		728,354		(138,953)		
Depreciation		(2,597,462)		(3,103,130)		
Impairment		(21,373)		(38,095)		
Transfer to assets held for sale (Note 34)		(106,473)		(15,891)		
Ending balance	₩	36,362,766	₩	29,662,743		

During the nine-month period ended September 30, 2023, the Group capitalized  $\mbox{$W$}$  57,049 million of borrowing costs (2022:  $\mbox{$W$}$ 14,189 million) in relation to the acquisition of property, plant and equipment. The capitalization rate of borrowings used to determine the amount of borrowing costs eligible for capitalization is 3.36% (2022: 1.60%).

Line items, including depreciation in the consolidated statements of profit or loss for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023					2022			
	Three months		Nine months		Three months		Nine months		
Cost of sales Selling and administrative expenses Others Discontinued operations	₩	797,255 91,261 - 6,623	₩	2,312,251 260,731 81 24,399	₩	719,469 73,078 368 9,066	₩	2,038,852 210,407 561 25,225	
Total	₩	895,139	₩	2,597,462	₩	801,981	₩	2,275,045	

#### Lease

(i) Amounts recognized in the consolidated statement of financial position

Details of right-of-use assets in the consolidated statement of financial position are as follows:

(In millions of Korean won)	Septem	ber 30, 2023	<b>December 31, 2022</b>		
Right-of-use assets <sup>1</sup>					
Real estate	₩	455,688	₩	382,714	
Machinery		45,788		50,078	
Vehicles		34,512		29,935	
Tools		2,184		2,204	
Equipment		1,056		568	
	₩	539,228	₩	465,499	

<sup>&</sup>lt;sup>1</sup> Included in the line item 'property, plant and equipment' in the condensed consolidated interim statements of financial position.

Additions to the right-of-use assets during the nine-month period ended September 30, 2023, were  $\mbox{$W$212,856}$  million (2022:  $\mbox{$W$145,668}$  million).

(In millions of Korean won)	Septem	ber 30, 2023	<b>December 31, 2022</b>		
Lease liabilities <sup>1</sup>					
Current	₩	97,735	₩	95,079	
Non-current		377,251		294,559	
	₩	474,986	₩	389,638	

<sup>&</sup>lt;sup>1</sup> Included in the line item 'Borrowings' in the consolidated statements of financial position.

## (ii) Amounts recognized in the consolidated statements of profit or loss

Lease-related expenses recognized in the consolidated statements of profit or loss for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)		2023		2022
Depreciation of right-of-use assets				
Real estate	₩	65,189	₩	53,206
Machinery		6,928		4,725
Vehicles		15,660		12,829
Tools		1,596		1,465
Equipment	_	260		261
	₩	89,633	₩	72,486
Interest expense relating to lease liabilities (included in finance cost)	₩	6,216	₩	6,976
Expenses relating to short-term leases (included in cost of goods sold and administrative expenses)		26,917		24,275
Expenses relating to leases of low-value assets that are not short-term leases (included in cost of goods sold and administrative expenses)		14,525		11,080

Total cash outflow for leases during the nine-month period ended September 30, 2023, was \$138,152 million (2022: \$112,306 million).

### 12. <u>INTANGIBLE ASSETS:</u>

Changes in intangible assets for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

(In millions of Korean won)	Sep	otember 30, 2023	December 31, 2022		
Beginning balance	₩	2,690,203	₩	2,444,303	
Business combination (Note 37)		841,304		1,504	
Acquisitions/transfer		391,521		598,608	
Disposals/transfer		(37,183)		(41,494)	
Exchange differences		99,090		4,205	
Amortization		(295,702)		(290,921)	
Impairment		(20)		(25,998)	
Transfer to assets held for sale (Note 34)		(35,721)		(4)	
Ending balance	₩	3,653,492	₩	2,690,203	

Line items, including amortization of intangible assets for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023					2022			
Three mon		ee months	Nine months		Three months		Nine months		
Cost of sales	₩	16,166	₩	46,495	₩	13,390	₩	41,582	
Selling and administrative expenses		83,821		238,652		56,476		158,690	
Discontinued operations		3,514		10,555		4,058		12,172	
Total	₩	103,501	₩	295,702	₩	73,924	₩	212,444	

Total research and development costs recognized as expenses amounted to \$1,467,953 million (2022: \$1,261,592 million) for the nine-month periods ended September 30, 2023 and 2022.

Details of greenhouse gas emission permits included in other intangible assets are as follows:

Greenhouse gas emission permits held for the purpose of fulfilling obligations

The number of greenhouse gas emission permits received free of charge for the 3rd planning period (2021 to 2025) is as follows:

(In thousands of tons)	2021	2022	2023	2024	2025	Total
Allocation with nil						
consideration	9,836	10,459	9,417	9,329	9,329	48,370

Changes in greenhouse gas emission permits during the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

(In thousands of	September 30, 2023									
tons and millions	20	2020 2021			20	)22	2023			
of Korean won)	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount		
Beginning balance /allocation with nil consideration	8,376	₩ -	9,836	₩ -	10,459	₩ -	9,417	₩ -		
(Sales) purchase	(69)	1,111	(216)	(20)	(731)	179	-	-		
Exchange Borrowings/Carry forwards between	100	-	(100)	-	-	-	-	-		
years Surrendered to the	(49)	(388)	(379)	388	(781)		1,209	-		
government	(8,358)	(723)	(9,141)	(368)	(8,947)	(179)	_	-		
Ending balance <sup>1</sup>	-	₩ -	-	₩ -	-	₩ -	10,626	₩ -		

(In thousands of	September 30, 2023									
tons and millions	20	)24	20	)25	T	Total				
of Korean won)	forean won) Quantity Amount Quantity Amount		Quantity	Amount						
Beginning balance /allocation with nil consideration	9,329	₩ -	9,329	₩ -	56,746	₩ -				
Purchase (sale)	-	-	-	-	(1,016)	1,270				
Exchange Borrowings/carry forwards between	-	-	-	-	-	-				
years Surrendered to the	-	-	-	-	-	- (4.250)				
government Ending balance <sup>1</sup>	9,329	₩ -	9,329	₩ -	(26,446) 29,284	(1,270) W -				

<sup>&</sup>lt;sup>1</sup> The emission permits for 2022 are expected to be surrendered to the government after getting a certification in the current year.

(In thousands of	December 31, 2022							
tons and millions	20	20	2021 2022				20	23
of Korean won)	Quantity Amount Quantity Amount Quantity Amount		Amount	Quantity	Amount			
Beginning balance /allocation with nil consideration	8,666	₩ -	10,113	₩ -	9,417	₩ -	9,417	₩ -
(Sales) purchase	(69)	1,111	(285)	(20)	(249)	-	-	- -
Exchange	100	-	(100)	-	-	-	-	-
Issuance of offset credits Borrowings/carry	-	-	-	-	119	-	-	-
forwards between years	(49)	(388)	(392)	388	441	_	_	-
Surrendered to the government	(8,648)		(9,336)	(368)	-	-	-	-
Ending balance	_	₩ -		₩ -	9,728	₩ -	9,417	₩ -

(In thousands of			Decembe	er 31, 2022			
tons and millions	20	24	20	)25	Total		
of Korean won)	Quantity	Amount	Quantity	Amount	Quantity	Amount	
Beginning balance /allocation with nil consideration	9,329	₩ -	9,329	₩ -	56,271	₩ -	
Purchase (sales)	-	-	-	=	(603)	1,091	
Exchange	-	-	-	-	-	-	
Issuance of offset							
credits	-	-	-	-	119	-	
Borrowings/Carry							
forwards between							
years	-	-	-	-	-	-	
Surrendered to the government					(17,984)	(1,091)	
Ending balance	9,329	₩ -	9,329	₩ -	37,803	₩ -	

During the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, there are no greenhouse gas emission permits held for short-term trading purposes.

Details of Greenhouse gas emission permits included in other intangible assets of condensed consolidated interim financial statements regarding the EU ETS (Emissions Trading System) are as follows:

(In thousands of tons and	Septembe	er 30,	2023	<b>December 31, 2022</b>			
millions of Korean won)	Quantity	Amount		Quantity	Amount		
Beginning balance	87	₩	8,002	-	₩	-	
Increase	141		13,055	121		11,794	
used	(104)		(11,068)	(34)		(3,792)	
Ending balance <sup>1</sup>	124	₩	9,989	87	₩	8,002	

## 13. OTHER CURRENT AND NON-CURRENT ASSETS:

Details of other current and non-current assets as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	September 30, 2023			December 31, 2022		
Current						
Prepayments to suppliers and prepaid expenses	₩	358,297	₩	455,013		
Prepaid value-added tax		320,900		293,627		
Others		268,118		264,823		
Total	₩	947,315	₩	1,013,463		
Non-current						
Net defined benefit assets	₩	507,971	₩	618,049		
Long-term prepayments and long-term prepaid expenses		202,808		143,876		
Others		145		138		
Total	₩	710,924	₩	762,063		

# 14. **BORROWINGS**:

Borrowings as at September 30, 2023, and December 31, 2022, consist of the following:

(In millions of Korean won)	Sep	tember 30, 2023	December 31, 2022		
Current					
Short-term borrowings	₩	2,054,056	₩	1,402,367	
Current portion of long-term borrowings		1,448,733		921,928	
Current portion of debentures		989,622		1,384,993	
Current lease liabilities	97,735			95,079	
		4,590,146		3,804,367	
Non-current					
Long-term borrowings		5,904,588		5,285,629	
Debentures		11,035,671		6,579,964	
Lease liabilities		377,251		294,559	
		17,317,510		12,160,152	
Total	₩	21,907,656	₩	15,964,519	

Details of short- and long-term borrowings and debentures as at September 30, 2023, and December 31, 2022, are as follows:

Short-term borrowings  Bank loans  Foreign currency and others and others  Foreign currency and others  Foreign currency and others  Foreign currency and others are considered by the constant of	n-current -
Bank loans Foreign CITI Securities 2024.06.20 6.62 and others	-
1 976 700 W - W 1 402 367 W	-
currency and onicis	
Negotiated borrowings Foreign Woori Bank and 2023.12.17 6M EURIBOR+0.40 77,356	
and others	
Total ₩ 2,054,056 ₩ - ₩ 1,402,367 ₩	-
Long-term borrowings	
Bank loans Korean won KDB Bank and 2028.11.1 3.05 and others W 50,000 W 605,000 W - W	500,000
Foreign RHB and others 2031.12.15 3M EURIBOR + 0.89 1,398,891 5,300,009 921,928 and others	4,786,280
Less: discount on long-term borrowings (158) -	(651)
Total ₩ 1,448,733 ₩ 5,904,588 ₩ 921,928 ₩	5,285,629
Debentures	
Public debentures Korean won KB Securities Co., 2036.02.19 3.73 and others W 990,000 W 4,400,000 W 710,000 W	3,540,000
Private debentures Korean won KB Securities Co., 2036.05.07 2.39 and others - 150,000 -	150,000
Foreign CITI Securities 2031.07.07 5.75 and others - 4,437,840 675,600	2,914,790
Exchangeable bonds Foreign CITI Securities 2030.07.18 1.60 and others - 2,689,600 -	-
Less: discount on debentures (378) (641,769) (607)	(24,826)
Total ₩ 989,622 ₩ 11,035,671 ₩ 1,384,993 ₩	6,579,964

1) The details of newly issued exchangeable bonds (Tranche 1) during the nine-month period ended September 30, 2023, are as follows.

Category	Details
Aggregate principal amount	USD 1,000,000,000
Issue price	USD 1,000,000,000
Interest rate	1.25
Issue Date	July 18, 2023
Maturity Date	July 18, 2028
Principal Repayment Method	Maturity repayment: Lump-sum repayment at maturity of the remaining principal and interest of debentures that have been repaid early by maturity or for which the right of exchange has not been exercised. Early redemption: The Parent Company has the Call Option, and the bondholder has the Put Option.
Exchange Target	1,883,636 common shares of LG Energy Solution, Ltd.
Exchange Price(KRW/share)	687,500 (23.07.11 closing price X premium 125%) However, the exchange price may be adjusted according to the standards set in the investment prospectus, such as when the target company pays stock dividends.
Claim Period	August 28, 2023 –July 11, 2028
Early Redemption at the Option of the Issuer	<ol> <li>After three years and 14 days from the date of payment, if there are more than 20 trading days out of 30 consecutive trading days when the stock price (based on closing price) is 130% or more of the exchange price based on U.S. dollar conversion.</li> <li>When the outstanding principal is less than 10% of the original debt (Clean Up Call)</li> <li>When additional tax burden arises due to revision of related laws, etc.</li> </ol>
Early Redemption at the Option of the Bondholders	<ol> <li>Can be exercised on 2025.07.18(Optional Put Date)</li> <li>When Shares cease to be listed or admitted to trading or are suspended for a period equal to or exceeding 30 consecutive Trading Days on the Relevant Stock Exchange</li> <li>When there is a change in control of the company or the issuer of stocks subject to exchange (Change of Control)</li> <li>When the issuer acquires more than 85% of the Voting Rights of the issued share capital of LG Energy Solution (Free Float)</li> </ol>

2) The details of newly issued exchangeable bonds (Tranche 2) during the nine-month period ended September 30, 2023, are as follows.

Category	Details						
Aggregate principal amount	USD 1,000,000,000						
Issue price	USD 1,000,000,000						
Interest rate	1.60						
Issue Date	July 18, 2023						
Maturity Date	July 18, 2030						
Principal Repayment Method	Maturity repayment: Lump-sum repayment at maturity of the remaining principal and interest of debentures that have been repaid early by maturity or for which the right of exchange has not been exercised. Early redemption: The Parent Company has the Call Option, and the bondholder has the Put Option.						
Exchange Target	1,811,188 common shares of LG Energy Solution, Ltd.						
Exchange Price(KRW/share)	715,000 (23.07.11 closing price X premium 130%) However, the exchange price may be adjusted according to the standards set in the investment prospectus, such as when the target company pays stock dividends.						
Claim Period	August 28, 2023 –July 11, 2030						
Early Redemption at the Option of the Issuer	<ol> <li>After three years and 14 days from the date of payment, if there are more than 20 trading days out of 30 consecutive trading days when the stock price (based on closing price) is 130% or more of the exchange price based on U.S. dollar conversion.</li> <li>When the outstanding principal is less than 10% of the original debt (Clean Up Call)</li> <li>When additional tax burden arises due to revision of related laws, etc.</li> </ol>						
Early Redemption at the Option of the Bondholders	<ol> <li>Can be exercised on 2027.07.18(Optional Put Date)</li> <li>When Shares cease to be listed or admitted to trading or are suspended for a period equal to or exceeding 30 consecutive Trading Days on the Relevant Stock Exchange</li> <li>When there is a change in control of the company or the issuer of stocks subject to exchange (Change of Control)</li> <li>When the issuer acquires more than 85% of the Voting Rights of the issued share capital of LG Energy Solution (Free Float)</li> </ol>						

3) Details of the exchangeable bonds (Tranche 1) as of the date of issuance and as of September 30, 2023, are as follows.

(In millions of Korean won)	July 18, 2023		September 30, 2023		
Issue price	₩	1,266,100	₩	1,344,800	
Book amount of exchangeable bonds		991,756		1,081,284	
Derivative financial liabilities		263,532		231,305	

4) Details of the exchangeable bonds (Tranche 2) as of the date of issuance and as of September 30, 2023, are as follows.

(In millions of Korean won)	July 18, 2023		September 30, 2023		
Issue price	₩	1,266,100	₩	1,344,800	
Book amount of exchangeable bonds		914,412		1,002,788	
Derivative financial liabilities		340,876		283,335	

5) Details of lease liabilities as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	<b>September 30, 2023</b>								
Leaser	Annual interest rate (%)	Latest maturity date	Total amount	Current	Non- current				
Hyundai Oil Bank and others	0.67 - 8.68	2082.2.28	₩ 474,986	₩ 97,735	₩ 377,251				
(In millions of Korean won)		Dece	ember 31, 2022						
Leaser	Annual interest rate (%)	Latest maturity date	Total amount	Current	Non- current				
Hyundai Oil Bank and others	0.67 - 8.68	2082.2.28	₩ 389,638	₩ 95,079	₩ 294,559				

### 15. PROVISIONS:

Used

**Ending balance** 

Current portion

Non-current portion

Changes in provisions for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	September 30, 2023								
(In millions of Korean won)	Warranty <sup>1</sup>		eenhouse emission <sup>2</sup>		Others <sup>3</sup>		Total		
Beginning balance Additions Used	₩ 1,485,978 632,304 (778,844)	₩	8,712 9,773 (11,248)	₩	65,170 104,637 (38,744)	₩	1,559,860 746,714 (828,836)		
Ending balance	₩ 1,339,438	₩	7,237	₩	131,063	₩	1,477,738		
Current portion	470,523		7,237		109,888		587,648		
Non-current portion	868,915				21,175		890,090		
			Decemb	er 31,	, 2022				
(In millions of Korean won)	Warranty <sup>1</sup>		Greenhouse gas emission <sup>2</sup>		Others <sup>3</sup>		Total		
Beginning balance Business combination	₩ 2,110,180	₩	79	₩	99,449	₩	2,209,708		
(Note 37)	4,999		_		=		4,999		
Additions (reversal)	666,923		12,493		9,136		688,552		

₩

(1,296,124)

971,836

514,142

₩ 1,485,978

(3,860)

8,712

8,712

₩

(43,415)

65,170

45,898

19,272

(1,343,399)

1,559,860

1,026,446

533,414

<sup>&</sup>lt;sup>1</sup> Warranty provisions have been accrued based on historical experience for the estimated warranty costs to be incurred due to quality control, exchange and refunds with regard to products. In addition, provisions related to replacement costs for ESS and voluntary automotive battery recalls are determined based on the best estimate and included in the above warranty provision. The provisions are adjusted to reflect the current best estimate. As at September 30, 2023, the above warranty provision included ₩1,337,420 million of warranty provision for LG Energy Solution, Ltd. and its subsidiaries.

<sup>&</sup>lt;sup>2</sup> Greenhouse gas emission provisions have been accrued for estimated expenditures to be obligated for any excess emission. The estimated emission as at September 30, 2023, amounts to 6,461 thousand tons (September 30, 2022: 7,300 thousand tons).

<sup>&</sup>lt;sup>3</sup> In addition to obligations related to sales warranties, etc., the consolidated company estimates the costs required to restore the leased office and the costs expected to be incurred in business activities and sets them as provisions.

#### 16. <u>NET DEFINED BENEFIT ASSETS:</u>

Details of net defined benefit liabilities (assets) recognized in the consolidated statements of financial position as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)		ber 30, 2023	<b>December 31, 2022</b>		
Present value of defined benefit obligations <sup>1</sup> Fair value of plan assets	₩	1,641,226 (2,127,952)	₩	1,554,870 (2,153,449)	
Liabilities (Assets) in the consolidated statements of financial position	₩	(486,726)	₩	(598,579)	

<sup>&</sup>lt;sup>1</sup> The present value of retirement benefit obligations is net of existing contributions to the National Pension Plan of ₩592 million as at September 30, 2023 (December 31, 2022: ₩655 million).

The amounts recognized in the consolidated statements of profit or loss for the three-month and ninemonth periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023				2022			
	Three months		Nine months		Three months		Nine ns months	
Current service cost <sup>1</sup>	₩	48,612	₩	147,752	₩	52,746	₩	158,352
Interest cost		(8,018)		(24,001)		(202)		(569)
Total, included in employee benefit expenses	₩	40,594	₩	123,751	₩	52,544	₩	157,783

<sup>&</sup>lt;sup>1</sup> The above amounts excluded ₩906 million (2022: ₩921 million) of expenses capitalized to construction in progress and development costs.

Postemployment benefits recognized for the defined contribution plan for the nine-month period ended September 30, 2023, amounted to \W10,651 million (2022: \W8,125 million).

Postemployment benefits recognized in the consolidated statements of profit or loss for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023				2022			
	Three months Nine months		Three	months		Nine onths		
Cost of sales	₩	15,631	₩	65,984	₩	29,775	₩	90,825
Selling and administrative expenses		25,757		62,007		22,159		66,995
Discontinued operations		2,264		6,411		2,709		8,088
Total	₩	43,652	₩	134,402	₩	54,643	₩	165,908

Movements in the present value of defined benefit obligations for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

(In millions of Korean won)		September 30, 2023		<b>December 31, 2022</b>	
Beginning balance	₩	1,554,870	₩	1,616,781	
Transfer in		10,498		11,434	
Transfer out		(3,592)		(6,334)	
Increase in defined benefit obligations due to sales and merger		(2,701)		-	
Current service cost		148,658		211,737	
Interest expense		60,397		46,328	
Remeasurements:					
Actuarial loss from change in demographic					
assumptions		-		(1,210)	
Actuarial gain from change in financial					
assumptions		-		(284,041)	
Actuarial loss from experience adjustments		-		78,279	
Others		-		459	
Exchange differences		(4,783)		(1,108)	
Payments from plans		(122,121)		(117,455)	
Ending balance	₩	1,641,226	₩	1,554,870	

Movements in the fair value of plan assets for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

(In millions of Korean won)	<b>September 30, 2023</b>		<b>December 31, 2022</b>	
Beginning balance	₩	2,153,449	₩	1,643,709
Increase in plan assets due to business				
combination		(1,138)		(933)
Increase in plan assets due to sales and merger		(3,825)		-
Interest income		84,398		47,107
Remeasurements:				
Return on plan assets (excluding amounts				
included in interest income)		5,323		(13,380)
Contributions:				
Employers		1,251		586,745
Payments from plans		(108,831)		(107,204)
Administrative costs		(2,675)		(2,595)
Ending balance	₩	2,127,952	₩	2,153,449

The actual return on plan assets for the nine-month period ended September 30, 2023, was \$89,721 million, and for the year ended December 31, 2022, was \$33,727 million.

The significant actuarial assumptions as at September 30, 2023, and December 31, 2022, are as follows:

	<b>September 30, 2023</b>	<b>December 31, 2022</b>	
Discount rate	5.3%-5.6%	5.3%-5.6%	
Future salary growth rate	6.0%	6.0%	

The sensitivity analysis for changes in key actuarial assumptions as at September 30, 2023, is as follows:

(In millions of Korean won)	Incre	ease by 0.5%	Decrease by 0.5%	
Discount rate:  (Decrease) increase in defined benefit obligations	₩	(159,708)	₩	195,954
Salary growth rate: Increase (decrease) in defined benefit obligations	₩	204,714	₩	(168,973)

A decrease in corporate bond yields is a major factor contributing to an increase in defined benefit liabilities.

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. The sensitivity of the defined benefit obligation to changes in principal actuarial assumptions is calculated using the projected unit credit method, the same method applied when calculating the defined benefit obligations recognized on the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the prior period.

Plan assets as at September 30, 2023, and December 31, 2022, consist of the following:

	Septembe	r 30, 2023	<b>December 31, 2022</b>		
(In millions of Korean won)	Amount	Amount Composition (%)		Composition (%)	
Insurance contracts with					
guaranteed yield	₩ 2,117,130	99.5	₩ 2,142,224	99.5	
Equity-linked bonds	10,820	0.5	11,222	0.5	
Time deposits	2	0.0	3	0.0	
	₩ 2,127,952	100.0	₩ 2,153,449	100.0	
	₩ 2,127,952	100.0	₩ 2,153,449	100.0	

Plan assets consist of various debt instruments with principal and interest protection and others that have no quoted market prices in an active market.

#### 17. OTHER CURRENT AND NON-CURRENT LIABILITIES:

Details of other current and non-current liabilities as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	<b>September 30, 2023</b>		<b>December 31, 2022</b>	
Current				
Advances from customers	₩	199,472	₩	232,059
Withholdings		293,032		147,334
Unearned revenues		157,951		149,293
Accrued expenses		528,385		810,768
Total	₩	1,178,840	₩	1,339,454
Non-current				
Long-term accrued expenses	₩	71,145	₩	65,182
Long-term unearned revenues		96,730		224,619
Long-term advanced received		222,534		114,544
Total	₩	390,409	₩	404,345

# 18. COMMITMENTS AND CONTINGENCIES:

- (1) As at September 30, 2023, the Parent Company and certain subsidiaries have been guaranteed by Seoul Guarantee Insurance Company for the execution of contracts and others.
- (2) As at September 30, 2023, the Parent Company and certain subsidiaries have various specific lines of credit agreements with several financial institutions, as follows:

(unit: Korean won in millions, foreign currencies in millions)

	The P	arent									
Classification	Com	Company		Certain Subsidiaries							
	KRW	USD	KRW	USD	CNY	EUR	PLN	INR	THB	MYR	JPY
Limit of bank overdraft	20,400	-	8,700	70	860	218	-	-	10	_	_
Limit of the letter of credit	15,000	278	-	293	2,009	-	-	2,970	-	-	2,000
Limit of discount of notes											
from export	-	1,269	-	1,070	3,200	-	-	-	-	-	-
Limit of guaranteed											
payments in other foreign											
currency	-	181	51,600	245	200	-	-	-	-	-	-
Limit of loan arrangements	350,000	-	720,000	6,540	12,565	2,818	155	40	-	450	-
Derivatives	_	-	90,000	1,435	-	220	_	_	_	_	_

The Parent Company and certain subsidiaries also entered into comprehensive credit line agreements with other financial institutions relating to trade finance and import/export(including bank overdraft) amounting to  $\mathbb{W}20,000$  million and USD 235 million. Certain subsidiaries entered into factoring agreements with a limit of  $\mathbb{W}150,000$  million and CNY 610 million.

(3) As at September 30, 2023, the Parent Company and certain subsidiaries have B2B purchase arrangements with several financial institutions with a limit of \(\pi\)356,000 million and \(\pi\)190,000 million, respectively.

- (4) As at September 30, 2023, the Parent Company has reverse factoring agreements. Of the limits granted by credit card companies, ₩133,660 million for the Shinhan Card is used.
- (5) As at September 30, 2023, the Group's litigation status is as follows.
  - i) As at September 30, 2023, in connection with the styrene monomer gas leakage accident, several lawsuits against LG Polymer India Pvt. Ltd., a subsidiary, have been filed with the National Green Tribunal of India ("NGT") and Andhra Pradesh High Court ("APHC"). The ultimate outcome of these cases cannot be determined at the reporting date. LG Polymer India Pvt. Ltd deposited INR 500 million under the order from NGT and deposited INR 953 million generated from sales of inventories under the order from APHC in connection with this accident. The manufacturing facility is currently closed with limited access in accordance with the order from APHC.
  - ii) As at September 30, 2023, in relation to small rechargeable batteries and General Motors ("GM") Bolt EV, the consumers have filed five class actions against a subsidiary. However, the ultimate outcome of these cases cannot be determined at the reporting date.
  - iii) In addition, as at September 30, 2023, the Parent Company and certain subsidiaries have been named as plaintiffs in eight (related claim amount of W26,494 million) and 23 (related claim amount of USD 90 million and W 5,921 million) legal actions, respectively. They have been named as defendants in 15 and 84 legal actions, with W85,539 million and W3,499 million in claims, respectively. The ultimate outcome of these cases cannot be determined at the reporting date.
- (6) The Group has entered into manufacture and production technical contracts with ExxonMobil and others.
- (7) The Group has entered into a license agreement with LG Corp. to use trademarks on the products that the Group manufactures and sells and on the services the Group provides in relation to its business.
- (8) As at September 30, 2023, the Group has entered into a payment guarantee contract of USD 8 million, and certain subsidiaries have entered into payment guarantee contracts of USD 126 million, EUR 1 million and W7,755 million with financial institutions to guarantee the warrant of products and payment. Certain subsidiaries have entered into payment guarantee contracts of CNY 494 million with financial institutions in relation to the custom of imported raw materials.
- (9) Capital expenditure arrangement that has not been incurred at the end of the reporting period is as follows:

(In millions of Korean won)	Septem	ber 30, 2023	Decemb	<b>December 31, 2022</b>		
Property, plant and equipment	₩	7,192,692	₩	6,522,401		

(10) As at September 30, 2023, the Group has entered into an agreement with GM regarding joint investment in Ultium Cells LLC, whereby each party can sell its shares to third parties in eight years after the inception of the contract. In addition, if one party defaults, the other party has the right to purchase shares from the other party. The Group completed the process of approval by the government for the use of core technologies according to the Industrial Technology Protection Act.

- (11) As at September 30, 2023, the Group has entered into a joint venture agreement with Honda in which the Group agreed to invest USD 1,802 million. In addition, during the year ended December 31, 2022, the Group determined payment guarantees of USD 450 million for the joint venture, in accordance with the equity ratio of the borrowing with a credit limit of USD 883 million.
- (12) As at September 30, 2023, the Group has entered into a joint venture agreement with Stellantis in which the Group agreed to invest USD 1,464 million.
- (13) As at September 30, 2023, the Group has entered into a joint venture agreement with HMG Global LLC in which the Group agreed to invest USD 1,108 million.
- (14) As at September 30, 2023, the Group and certain subsidiaries' investment agreements are as follows:

(In millions of Korean won, USD and EUR)	Currency	Committed investments	Cumulative investments	Remaining
KBE Fund	KRW	150,000	75,213	74,787
Gross Acceleration Fund	KRW	5,000	4,900	100
BNZ (Beyond Net Zero) Fund	USD	150	48	102
Secondary Battery Growth Fund	KRW	6,700	5,360	1,340
U.S. Venture Partners XII <sup>1</sup>	USD	5	4	1
U.S. Venture Partners XIII <sup>1</sup>	USD	5	1	4
Phoenix Venture Partners III <sup>1</sup>	USD	10	4	6
Emerald Industrial Innovation Fund IX <sup>1</sup>	EUR	5	1	4
BCM Global Battery Fund	KRW	30,000	8,751	21,249
Yonsei Technology Holdings IP Fund	KRW	3,000	1,020	1,980

<sup>&</sup>lt;sup>1</sup> Investment agreements of LG Chem Fund LLC.

(15) During the year ended December 31, 2022, the Group acquired 50% of new shares issued by LG Toray Hungary Battery Separator kft. for USD 375 million in accordance with the joint venture agreement with Toray Industries, Inc. The shares were recognized as an investment in associates as it was determined that there was joint control under the agreement. The details of agreements entered into upon the acquisition of shares are as follows:

Category	Details
Agreement to purchase additional shares	After 30 months from the acquisition date of the 50% shares, purchasing the 20% shares through the agreed pricing method
Restrictions on share transfer	<ul> <li>During the lock-up period<sup>1</sup>, share transfer is prohibited without prior written consent of the other shareholder.</li> <li>When sold to a third party, the Parent Company holds a drag-along right, and Toray Industries, Inc. holds a tag-along right.</li> </ul>
Default	In case the Parent Company or the contracting party defaults, non-default shareholders and subsidiaries have the right to request the defaulting shareholders to sell their shares (Call Option) and the defaulting shareholders to purchase the shares held by the non-default shareholder (Put Option).
Exit put option	Once the lock-up period <sup>1</sup> ends, the other shareholder has a put option to sell the remaining 30% of the shares to the Parent Company.
Deadlock	<ul><li>In the event of a deadlock agreed upon by both parties,</li><li>1) the Parent Company holds a Call Option to request the counterparty's company and affiliates to sell their shares.</li><li>2) The other party holds a put option to request the Parent Company to purchase shares of the counterparty.</li></ul>

<sup>&</sup>lt;sup>1</sup> Lock-up period: restriction period of share transfer for five years from the time the Parent Company acquires 50% of the shares.

(16) Certain subsidiaries provide payment guarantees for borrowings as at September 30, 2023, and December 31, 2022. The details are as follows:

(In millions of Korean won)		Amount of	borrowing <sup>1</sup>	Guaranteed amount <sup>2</sup>		
Guarantor	Guaranteed company Creditor		<b>September 30, 2023</b>	December 31, 2022	September 30, 2023	December 31, 2022
LG ENERGY SOLUTION, LTD.	PT. HLI Green Power	ANZ and others	₩ 258,874	₩ 88,711	₩ 478,076	₩ 450,525

<sup>&</sup>lt;sup>1</sup> It is the amount of borrowing as at September 30, 2023

<sup>&</sup>lt;sup>2</sup> It is a total amount guaranteed

<sup>(17)</sup> During the nine-month period ended September 30, 2023, the Parent Company issued exchangeable bonds targeting the stocks of LG Energy Solution, LTD., and recognized the right of exchange and option included in the exchangeable bonds as a derivative financial liability.

### 19. SHARE CAPITAL:

Changes in share capital and share premium for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

_	Ordinary	y shares	Preferred		
(In millions of Korean won and in shares)	Number of shares	Share capital	Number of shares	Share capital	Share premium
January 1, 2022	70,592,343	₩ 352,962	7,688,800	₩ 38,444	₩ 2,014,036
December 31, 2022	70,592,343	₩ 352,962	7,688,800	₩ 38,444	₩ 2,014,036
September 30, 2023	70,592,343	₩ 352,962	7,688,800	₩ 38,444	₩ 2,014,036

Changes in treasury shares for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	Number of	f shares					
(In millions of Korean won and in shares)	Ordinary shares	Preferred shares		Carrying amount	Gain on disposal of treasury shares		
January 1, 2022	367,529	6,041	₩	18,011	₩	463,807	
Disposal of treasury shares <sup>1</sup>	(367,529)	-		(17,741)		192,119	
December 31, 2022	<u>-</u>	6,041	₩	270	₩	655,926	
September 30, 2023		6,041	₩	270	₩	655,926	

<sup>&</sup>lt;sup>1</sup> The Group disposed of all of treasury shares of the Parent Company (367,529 shares) on November 24, 2022, as the board of directors' meeting decided to exchange treasury shares of Korea Zinc Company, Ltd. with the treasury shares of the Parent Company.

Capital surplus as at September 30, 2023, and December 31, 2022, consist of:

(In millions of Korean won)	Septe	mber 30, 2023	<b>December 31, 2022</b>		
Revaluation reserve	₩	206,769	₩	206,769	
Share premium		2,014,036		2,014,036	
Gain on disposal of treasury shares		655,926		655,926	
Other capital surplus		8,695,367		8,692,825	
Total	₩	11,572,098	₩	11,569,556	

#### 20. RETAINED EARNINGS:

Retained earnings as at September 30, 2023, and December 31, 2022, consist of:

(In millions of Korean won)	<b>September 30, 2023</b>			mber 31, 2022
Legal reserve <sup>1</sup>	₩	674,681	₩	674,327
Discretionary reserve <sup>2</sup>		16,894,707		14,570,240
Retained earnings before appropriation		2,213,232		3,897,696
Total	₩	19,782,620	₩	19,142,263

<sup>&</sup>lt;sup>1</sup> The Commercial Code of the Republic of Korea requires the Group to appropriate, for each financial period, as a legal reserve, an amount equal to a minimum of 10% of cash dividend paid until such reserve equals 50% of its issued share capital. The reserve is not available for cash dividend payment but may be transferred to share capital or used to reduce accumulated deficits. When the accumulated legal reserves (the sum of capital reserves and earned profit reserves) are greater than 1.5 times the paid-in capital amount, the excess legal reserves may be distributed in accordance with a resolution of the shareholders' meeting.

### 21. OTHER COMPONENTS OF EQUITY:

Details of other components of equity as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septem	iber 30, 2023	<b>December 31, 2022</b>		
Treasury shares (Note 19)	₩	(270)	₩	(270)	
Capital transactions within the Group <sup>1</sup>		(19,299)		(19,299)	
Total	₩	(19,569)	₩	(19,569)	

<sup>&</sup>lt;sup>1</sup> Includes gain or loss on disposal of investments and investment differences due to changes in equity, net of deferred tax.

<sup>&</sup>lt;sup>2</sup> The Group separately accumulates a discretionary reserve for research and human resource development through the appropriation of retained earnings, which has been included as a deductible expense for the corporate income tax return according to the Special Tax Treatment Law. Among these reserves, the used amounts for each specific purpose and the balances after use can be transferred to discretionary reserves and will be used for dividends.

## 22. **OPERATING PROFIT:**

Selling and administrative expenses for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	llions of Korean won) 2023				2022	
		Three month	Nine month		Three month	Nine month
Revenue	₩	13,494,826	42,114,983	₩	13,984,622	37,327,081
Cost of sales		11,177,109	35,079,485		11,235,377	29,650,108
Gross profit		2,317,717	7,035,498		2,749,245	7,676,973
Other non-operating income						
(*)		215,587	426,797		-	-
Selling and administrative						
expenses		1,672,878	5,180,526		1,837,864	4,906,991
Wages and salaries		439,280	1,269,509		460,125	1,149,790
Postemployment benefits						
(Note 16)		25,757	62,007		22,160	66,995
Employee benefits		83,697	292,292		72,088	211,684
Travel expense		29,992	81,502		23,474	58,412
Water and utilities		32,322	92,717		26,076	68,624
Packaging expense		2,633	6,225		4,836	8,395
Rental expenses		38,065	118,152		40,813	110,016
Commission expenses		299,258	832,428		277,664	718,418
Depreciation		92,108	263,319		73,430	211,480
Advertising expense		17,022	50,433		12,105	32,241
Freight expenses		179,906	592,678		407,124	1,282,136
Training expense		16,118	46,337		14,073	32,993
Amortization (Note 12)		83,821	238,652		56,475	158,690
Sample expense		7,034	23,955		6,195	18,141
Development costs		112,575	328,052		90,541	253,628
Others		213,290	882,268		250,685	525,348
Operating profit	₩	860,426	2,281,769	₩	911,381	2,769,982

<sup>(\*)</sup> Under the Inflation Reduction Act, which takes effect on January 1, 2023, manufacturers and sellers of battery cells/modules produced in the United States are eligible for tax deductions of a certain amount. The amount is expected to be received by the Group based on the anticipated revenue during the ninemonth period ended September 30, 2023.

## 23. CLASSIFICATION OF EXPENSES BY NATURE:

Cost of sales and selling and administrative expenses by nature for the nine-month periods ended September 30, 2023 and 2022, consist of:

(In millions of Korean won)	2023				2022				
,		ree months		Nine months			Nine months		
Changes in inventories of merchandise, finished goods, semifinished goods and work in									
process	₩	370,501	₩	1,204,030	₩	(886,305) ₩	(2,936,580)		
Raw materials and consumables used		7,534,220		24,603,793		9,107,966	24,236,165		
Purchase of merchandise		429,908		1,166,416		598,153	1,239,069		
Employee benefit expenses									
(Note 24)		1,203,668		3,649,666		1,270,473	3,360,741		
Advertising expenses		17,318		51,299		12,360	33,096		
Freight expenses		193,562		635,024		422,364	1,324,120		
Commission expenses		494,522		1,383,118		460,294	1,221,035		
Depreciation and amortization		989,350		2,860,717		862,763	2,450,603		
Rent expenses and usage fee		30,842		86,924		27,371	76,960		
Other expenses		1,586,096		4,619,024		1,197,802	3,551,890		
Total	₩	12,849,987	₩	40,260,011	₩	13,073,241 ₩	34,557,099		

## 24. <u>EMPLOYEE BENEFIT EXPENSES:</u>

Details of employee benefit expenses for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023			2022				
	Three Nine months		Three months		Nine months			
Salaries Postemployment benefits – Defined	₩	987,725	₩	2,998,477	₩	1,084,415	₩	2,815,409
benefit plan (Note 16) Postemployment benefits – Defined		38,427		117,687		49,914		149,995
contribution plan (Note 16)		2,960		10,304		2,020		7,825
Others		170,987		517,121		132,058		387,512
Total	₩	1,200,099	₩	3,643,589	₩	1,268,407	₩	3,360,741

# 25. FINANCE INCOME AND COSTS:

Details of finance income and costs for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023						2022		
	Thre	ee months		Nine months		Three nonths		Nine months	
Finance income									
Interest income <sup>1</sup>	₩	101,336	₩	229,138	₩	71,927	₩	190,136	
Dividend income		3,230		16,573		1,212		1,538	
Exchange differences		123,628		809,630		164,103		410,808	
Gain related to derivative instruments		196,753		340,940		390,047		563,888	
Gain related to financial instruments		30,241		34,649		12,372		15,643	
Total	₩	455,188	₩	1,430,930	₩	639,661	₩	1,182,013	
Finance costs									
Interest expense <sup>2</sup>	₩	192,383	₩	462,476	₩	82,099	₩	204,890	
Exchange differences		444,077		1,053,095		704,008		1,198,626	
Loss related to derivative instruments		29,632		23,009		29,691		49,903	
Loss related to financial instruments	-	(123)		1,414		4,255		4,873	
Total	₩	665,969	₩	1,539,994	₩	820,053	₩	1,458,292	

<sup>&</sup>lt;sup>1</sup> Details of interest income for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)		2023			2022			
		Three months		Nine months	Thre	e months		Nine months
Deposits held by financial institutions Other loans and receivables	₩	72,784 28,552	₩	174,861 54,277	₩	51,981 19,946	₩	142,406 47,730
Total	₩	101,336	₩	229,138	₩	71,927	₩	190,136

<sup>&</sup>lt;sup>2</sup> Details of interest expense for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)		2023			2022				
		Three months		Nine months		Three months		Nine months	
Interest on financial institutions Interest on lease liabilities Interest on debentures	₩	100,200 2,010 88,311	₩	279,853 6,216 188,036	₩	30,891 2,301 47,476	₩	60,996 6,976 135,073	
Other interest expenses Capitalized interest for qualifying assets		26,176 (24,314)		44,665		6,007		15,814 (13,969)	
Total	₩	192,383	₩	462,476	₩	82,099	₩	204,890	

### 26. OTHER NON-OPERATING INCOME:

Details of other non-operating income for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023				2022			
	Three months		Nine months	· · ·		Nine months		
Exchange differences Gain on disposal of property, plant and	₩	308,062	₩ 1,318,205	₩	984,155	₩ 1,707,208		
equipment		14,346	18,077		42,572	43,622		
Gain on disposal of intangible assets		-	191		-	8		
Profit from bargain purchase		-	-		-	30,674		
Insurance income		6,182	14,916		4,555	50,809		
Others		13,181	39,789		7,771	29,787		
Total	₩	341,771	₩ 1,391,178	₩	1,039,053	₩ 1,862,108		

## 27. OTHER NON-OPERATING EXPENSES:

Details of other non-operating expenses for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	2023			2022			
	Three months		Nine months			Nine months	
Exchange differences	₩	348,760	₩ 1,081,273	₩	765,205	₩ 1,353,776	
Loss on disposal of property, plant and							
equipment		16,171	73,519		17,631	42,087	
Loss on disposal of intangible assets		23,962	24,779		3,208	22,358	
Impairment loss on property, plant and							
equipment (Note 11)		2,174	4,160		29,164	48,370	
Impairment loss on intangible assets							
(Note 12)		-	-		274	287	
Loss on disasters		951	16,990		8,876	22,251	
Donations		3,098	14,907		2,731	13,766	
Others		13,590	42,220		4,609	31,302	
Total	₩	408,706	₩ 1,257,848	₩	831,698	₩ 1,534,197	

# 28. TAX EXPENSE AND DEFERRED TAX:

Income tax expense is recognized based on the best estimate of weighted-average annual income tax rate expected for the full financial year. The estimated average annual income tax rate used for the year ending December 31, 2023, is 16.3% (the estimated tax rate for the year ended December 31, 2022: 25.5%).

### 29. EARNINGS PER SHARE:

Basic earnings per share are calculated by dividing the profit attributable to owners of the Parent Company by the weighted-average number of shares in issue, excluding shares purchased by the Parent Company and held as treasury shares. As at the reporting date, the Parent Company has no potential ordinary shares. Preferred shares have a right to participate in the profits of the Group. These participation rights have been considered in presenting the earnings per share information for both ordinary shares and preferred shares.

Basic earnings per share for profit from continuing operations and earnings per share attributable to the equity holders of the Parent Company for the three-month and nine-month periods ended September 30, 2023 and 2022, are computed as follows:

## Basic earnings per ordinary share from continuing operations

(In millions of Korean won and					
in number of shares)	202	23	2022		
	Three months	Nine months	Three months	Nine months	
Profit from continuing operations attributable					
to ordinary shares <sup>1</sup>	357,843	1,264,183	526,485	1,662,191	
Weighted-average number of ordinary shares					
outstanding	70,592,343	70,592,343	70,224,814	70,224,814	
Basic earnings per ordinary share from continuing operations (in Korean won)	5,069	17,908	7,497	23,670	

### Basic earnings per ordinary share

(In millions of Korean won and in number of shares)	202	23	202	22
	Three months	Nine months	Three months	Nine months
Profit attributable to ordinary shares <sup>1</sup> Weighted-average number of ordinary shares	378,626	1,279,600	553,440	1,768,072
outstanding	70,592,343	70,592,343	70,224,814	70,224,814
Basic earnings per ordinary shares (in Korean won)	5,364	18,127	7,881	25,177

# Basic earnings per preferred share from continuing operations

(In millions of Korean won and in number of shares)	202	23	2022		
	Three months	Nine months	Three months	Nine months	
Profit from continuing operations attributable					
to preferred share <sup>1</sup>	39,329	137,968	57,983	182,232	
Weighted-average number of preferred shares					
outstanding	7,682,759	7,682,759	7,682,759	7,682,759	
Basic earnings per preferred share from					
continuing operations (in Korean won)	5,119	17,958	7,547	23,720	

## Basic earnings per preferred share

(In millions of Korean won and in number of shares)

in number of shares)	202	23	2022		
	Three months	Nine months	Three months	Nine months	
Profit attributable to preferred shares <sup>1</sup> Weighted-average number of preferred shares	41,591	139,647	60,932	193,815	
outstanding	7,682,759	7,682,759	7,682,759	7,682,759	
Basic earnings per preferred shares (in Korean won)	5,414	18,177	7,931	25,227	

<sup>&</sup>lt;sup>1</sup> Profit attributable to ordinary and preferred shares are as follows:

(In millions of Korean won)	202	23	2022		
	Three months	Nine months	Three months	Nine months	
Profit from continuing operations attributable					
to the owners of the Parent Company	397,172	1,402,151	584,468	1,844,423	
Ordinary shares dividends (A)	113,345	383,638	210,674	632,023	
Preferred shares dividends (B)	12,720	42,136	23,432	69,529	
Undistributed earnings from continuing					
operation for the period	271,107	976,377	350,362	1,142,871	
Undistributed earnings available for ordinary					
shares (C)	244,498	880,545	315,811	1,030,168	
Undistributed earnings available for preferred					
shares (D)	26,609	95,832	34,551	112,703	
<b>Profit from continuing operations for the period</b>					
attributable to ordinary shares (A+C)	357,843	1,264,183	526,485	1,662,191	
Profit from continuing operations for the period					
attributable to preferred shares (B+D)	39,329	137,968	57,983	182,232	

(In millions of Korean won)	202	23	2022		
	Three months	Nine months	Three months	Nine months	
Profit attributable to the owners of the Parent					
Company	420,217	1,419,247	614,372	1,961,887	
Ordinary shares dividends (A)	113,345	383,638	210,674	632,023	
Preferred shares dividends (B)	12,720	42,136	23,433	69,529	
Undistributed earnings for the period	294,152	993,473	380,265	1,260,335	
Undistributed earnings available for ordinary					
shares (C)	265,281	895,962	342,766	1,136,049	
Undistributed earnings available for preferred					
shares (D)	28,871	97,511	37,499	124,286	
Profit for the period attributable to ordinary					
shares (A+C)	378,626	1,279,600	553,440	1,768,072	
Profit for the period attributable to preferred					
shares (B+D)	41,591	139,647	60,932	193,815	

For the nine-month periods ended September 30, 2023 and 2022, there were no dilutive potential outstanding ordinary shares at the reporting date. Accordingly, diluted earnings per share for profit attributable to owners of the Parent Company is identical to basic earnings per share.

Basic and diluted earnings (losses) per share attributable to ordinary and preferred shares from discounted operations for the three-month and nine-month periods ended September 30, 2023 and 2022, are as follows:

(In Korean won)	2023	3	2022		
	Three months	Nine months	Three months	Nine months	
Basic earnings per ordinary share from					
discounted operations	295	219	384	1,507	
Basic earnings per preferred share from					
discounted operations	295	219	384	1,507	
Diluted earnings per ordinary share from					
discounted operations	295	219	384	1,507	
Diluted earnings per preferred share from					
discounted operations	295	219	384	1,507	

# **30. DIVIDENDS:**

Details of dividends of the Parent Company for the nine-month periods ended September 30 2023 and 2022, are as follows:

(In millions of Korean won and in number of shares)		20	23			2022				
		rdinary shares	F	Preferred shares		Ordinary shares	I	Preferred shares		
Total number of shares issued										
based on dividends	,	70,592,343		7,688,800		70,592,343		7,688,800		
Number of treasury shares at the										
record date		-		(6,041)		(367,529)		(6,041)		
Number of shares entitled to										
dividends	,	70,592,343		7,682,759		70,224,814		7,682,759		
Dividend per share (in Korean										
won)		10,000		10,050		12,000		12,050		
Total dividend amount	₩	705,923	₩	77,212	₩	842,698	₩	92,577		

## 31. <u>RELATED-PARTY TRANSACTIONS:</u>

(1) Details of related parties as of September 30, 2023, and December 31, 2022, are as follows:

Related party	Related party's subsidiary (domestic)	Related party's subsidiary (overseas)	Related party's associates and joint ventures				
<significant gr<="" influence="" over="" td="" the=""><td>roup:1&gt;</td><td></td><td></td></significant>	roup:1>						
LG Corp.							
<subsidiaries corp.:="" lg="" of=""></subsidiaries>							
LG CNS Co., Ltd.	Biztech On Co., Ltd. and others	LG CNS America Inc. and others					
D&O Corp.	D&O CM and others	D&O CM POLAND sp.z o.o. and others					
LG Management Development Institute							
LG Sports Ltd.							
LG Holdings Japan co., Ltd.							
<associates and="" joint="" ventures:<sup="">2&gt;</associates>	•						
TECHWIN Co., Ltd.							
LG Chem Life Sciences Poland Ltd.							
HUAJIN NEW ENERGY							
MATERIALS(QUZHOU)							
CO., LTD.							
TL Chemical CO., Ltd							
KOREA PRECURSOR CO.,							
LTD. VINA Plasticizers Chemical							
Co., Ltd.							
LG Toray Hungary Battery							
Separator Kft.							
SEETEC Co., Ltd.							
PT.HLI Green Power.							
Jiangxi VL Battery Co., Ltd.3							
Sam-a Aluminium Company, Limited <sup>4</sup>							

Related party	Related party's subsidiary (domestic)	Related party's subsidiary (overseas)	Related party's associates and joint ventures
NEXPO Co., Ltd <sup>4</sup>			
Mintech Co., Ltd. <sup>5</sup>			
<lg enterprise="" group<sup="">6,7&gt;</lg>			
LG Display Co., Ltd.	Nanumnuri Co., Ltd.	LG Display High-Tech (China) Co., Ltd. and others	
LG Electronics Inc.	LG Innotek Co., Ltd.	LG ELECTRONICS	
	and others	INDIA PRIVATE LIMITED and others	Robostar Co., Ltd. and others
LG Household & Health Care	Coca-Cola Beverage Co.	Beijing LG Household	
Ltd.	and others	Chemical Co., Ltd. and others	
LG Uplus Corp.	LG HelloVision Corp and others.	DACOM AMERICA, INC.	
HS AD Inc. <sup>8</sup>		GIIR America Inc. and others	
<other<sup>9&gt;</other<sup>			
Shanjin		Shanjin Optoelectronics	
Optoelectronics(Suzhou) Co.,Ltd.		(Nanjing) Co., Ltd. and others	

<sup>&</sup>lt;sup>1</sup> LG Corp. is an entity exercising a significant influence over the Group, which owns 33.34% of the Parent Company's ordinary shares.

<sup>&</sup>lt;sup>2</sup> During the nine-month period ended September 30, 2023, the Group disposed 100% ownership shares of VINFAST LITHIUM BATTERY PACK LLC. Therefore, it was excluded from the related parties.

<sup>&</sup>lt;sup>3</sup> During the nine-month period ended September 30, 2023, the Group decided on the non-reciprocal transfer and recognized impairment losses on the carrying amount.

<sup>&</sup>lt;sup>4</sup> During the nine-month period ended September 30, 2023, the Group newly acquired shares of the company.

<sup>&</sup>lt;sup>5</sup> Although the Group owns less than 20% of the shares in the form of redeemable convertible preference shares, it is judged to have significant influence as it holds a right to appoint directors. Meanwhile, it is classified as a financial asset measured at fair value through profit or loss considering K-IFRS 1109 and the nature of the shares held.

<sup>&</sup>lt;sup>6</sup> Although these entities are not the related parties of the Group in accordance with K-IFRS 1024, these entities belong to a large enterprise group in accordance with the Monopoly Regulation and Fair-Trade Act.

<sup>&</sup>lt;sup>7</sup> During the year ended December 31, 2022, LX Holdings Corp. and its affiliates were excluded from the LG Group due to the spin-off of LG Corp.

<sup>&</sup>lt;sup>8</sup> During the nine-month period ended September 30, 2023, G II R Inc. merged HS AD Inc. and LBEST Inc. After the merger, G II R Inc. changed its name to HS AD Inc.

<sup>&</sup>lt;sup>9</sup> A company that is not a subsidiary, associate or joint venture of a consolidated company, but falls within the scope of related parties in K-IFRS 1024.

(2) Sales and purchases with related parties for the nine-month periods ended September 30, 2023 and 2022, are as follows:

	For the nine-month period ended September 30, 2023											
			Purchas	e and others								
(In millions of Korean won)	Sales and others	Purchase of raw materials /merchandises	Acquisition of property, plant and equipment and intangible assets	Acquisition of right-of-use assets	Interest expense	Others						
Entity with a significant influence over the Group LG Corp.	₩ -	₩ -	₩ -	₩ -	₩ 146	₩ 86,700						
•	VV -	VV -	-	VV -	W 140	W 80,700						
Associates and joint ventures												
SEETEC Co., Ltd.	74,744	198,082	8	2,927	300	71,528						
TECWIN Co., Ltd. HUAJIN NEW ENERGY	-	138	145	-	-	134						
MATERIALS	230	539,890	_	_	_	_						
(QUZHOU) CO., LTD.	230	337,070										
PT. HLI Greenpower Co.,												
Ltd.	35,087	-	-	-	-	9,512						
Others	37,636	28,486	206	-	-	132						
Other related parties												
D&O Corp. and its subsidiaries and associates	86	12,952	689,801	-	-	85,612						
LG CNS Co., Ltd. and its subsidiaries	29,607	2,443	521,726	-	13	204,375						
Others	66	-	-	-	-	58,922						
Others												
LG Display Co., Ltd. and its subsidiaries	341,779	109	-	-	-	200						
LG Electronics Inc. and its subsidiaries and joint ventures	2,023,183	246,161	533,967	-	268	55,470						
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries	375,236	344	-	-	-	12,141						
Others	7,526	22,555	243	632	64	5,427						
Total	₩ 2,925,180	₩ 1,051,160	₩ 1,746,096	₩ 3,559	₩ 791	₩ 590,153						

For the nine-month period ended September 30, 2022

		Purchase and others							
(In millions of Korean won)	Sales and others	Purchase of raw materials /merchandises	Acquisition of property, plant and equipment and intangible assets	Acquisition of right-of-use assets	Interest expense	Others			
Entity with a significant influence over the Group									
LG Corp.	₩ -	₩ -	₩ 1,273	₩ -	₩ 131	₩ 79,589			
Associates and joint ventures									
SEETEC Co., Ltd.	97,135	176,405	-	-	298	61,053			
TECWIN Co., Ltd.	-	330	1,646	_	-	92			
HUAJIN NEW ENERGY									
MATERIALS	-	234,594	-	-	-	-			
(QUZHOU) CO., LTD.									
PT. HLI Greenpower Co.,	34,471	-	_	_	_	_			
Ltd.									
Others	3,345	8,256	-	-	-	143			
Other related parties									
D&O Corp. and its subsidiaries	165	5,197	356,480	-	-	70,793			
LG CNS Co., Ltd. and its subsidiaries	14,772	2,372	362,190	-	13	153,065			
Others	-	-	-	-	-	38,951			
Others									
LG Display Co., Ltd. and its subsidiaries	436,421	40	-	-	10	71			
LG Electronics Inc. and									
its subsidiaries and joint ventures	1,054,606	295,966	344,701	-	285	27,161			
LX International Corp. and its subsidiaries	43,477	266,666	79,395	-	9	812,884			
LX Hausys, Ltd. and its subsidiaries	147,990	4,552	1,048	-	-	3			
LX MMA Corporation <sup>1</sup>	111,379	109,790	-	-	-	2,582			
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries	399,150	19,928	-	-	-	21,265			
Others	8,147	27,964	59	-	38	6,377			
Total	₩ 2,351,058	-		₩ -	₩ 784	₩1,274,029			

<sup>&</sup>lt;sup>1</sup> Net sales and purchase amounts after offsetting for Raffinate transactions with LX MMA Corporation.

(3) Balances of receivables and payables arising from sales and purchases of goods and services as at September 30, 2023, and December 31, 2022, are as follows:

	<b>September 30, 2023</b>										
	<u>-</u>	Receivables									
(In millions of Korean won)	Trade receivables and others		Loan receivables		Other receivables	Total					
Entity with a significant influence over the Group											
LG Corp.	₩	-	₩	- ₩	13,920	₩	13,920				
Associates and joint ventures											
SEETEC Co., Ltd.		5,612		-	916		6,528				
TECWIN Co., Ltd.		-		-	-		-				
HUAJIN NEW ENERGY		_		_	13,419		13,419				
MATERIALS(QUZHOU) CO., LTD.											
PT. HLI Greenpower Co., Ltd.		192		-	2,596		2,788				
Others		7,051		-	-		7,051				
Other related parties											
D&O Corp. and its subsidiaries and associates <sup>1</sup>		-		-	-		-				
LG CNS Co., Ltd. and its subsidiaries		5,037		-	-		5,037				
Others		-		-	-		-				
Others											
LG Display Co., Ltd. and its subsidiaries		200,097		-	266		200,363				
LG Electronics Inc. and its subsidiaries and joint ventures <sup>1</sup>		545,215		-	4,889		550,104				
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries		112,558		-	27		112,585				
Others		112			1,896		2,008				
Total	₩	875,874	₩	- ₩	37,929	₩	913,803				

	September 30, 2023									
(In millions of Korean won)	Trade payables	Borrowings	Payables  Lease liabilities	Other payables	Total					
Entity with a significant influence over the Group										
LG Corp.	₩ -	₩ -	₩ 3,060	₩ 20,508	₩ 23,568					
Associates and joint ventures										
SEETEC Co., Ltd.	21,284	-	20,662	10,964	52,910					
TECWIN Co., Ltd.	-	-	-	30	30					
HUAJIN NEW ENERGY MATERIALS(QUZHOU) CO., LTD.	132,369	-	-	-	132,369					
PT. HLI Greenpower Co., Ltd.	-	-	-	63,133	63,133					
Others	5,366	-	-	44	5,410					
Other related parties  D&O Corp. and its subsidiaries and associates <sup>1</sup>	-	-	-	352,842	352,842					
LG CNS Co., Ltd. and its subsidiaries	779	-	308	281,743	282,830					
Others	-	-	-	1,769	1,769					
Others										
LG Display Co., Ltd. and its subsidiaries	45	-	99	38	182					
LG Electronics Inc. and its subsidiaries and joint ventures <sup>1</sup>	78,670	-	16,517	227,868	323,055					
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries	279	-	-	1,448	1,727					
Others	3,951		3,686	6,076	13,713					
Total	₩ 242,743	₩ -	₩ 44,332	₩ 966,463	₩ 1,253,538					

_	<b>September 30, 2023</b>									
				Payab	les					
(In millions of Korean won)	Trade payables	Bori	rowings	Leas liabilit		Other payables		Total		
	December 31, 2022									
	Receivables									
(In millions of Korean won)	Trade recei		Loai receiva			Other receivables		Total		
Entity with a significant influence over the Group										
LG Corp.	₩	-	₩	-	₩	10,335	₩	10,335		
Associates and joint ventures										
SEETEC Co., Ltd.		15,002		-		1,221		16,223		
TECWIN Co., Ltd.		-		-		-		-		
HUAJIN NEW ENERGY MATERIALS(QUZHOU) CO., LTD.		9,453		-		-		9,453		
PT. HLI Greenpower						1,311		1,311		
Others		-		-		-		-		
Other related parties  D&O Corp. and its subsidiaries and affiliates		-		-		-		-		
LG CNS Co., Ltd. and its subsidiaries		5,782		-		319		6,101		
Others		_		-		5		5		
Others										
LG Display Co., Ltd. and its subsidiaries		78,507		-		419		78,926		
LG Electronics Inc. and its subsidiaries and joint ventures <sup>1</sup>	3	96,289		-		27,917		424,206		
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries		57,361		-		1,792		59,153		
Others		42		-		2,923		2,965		
Total	₩ 5	62,436	₩		₩	46,242	₩	608,678		

	<b>December 31, 2022</b>										
					Payables						
(In millions of Korean won)		Trade payables		ings	Lease liabilities		Other payables		Total		
Entity with a significant influence over the Group											
LG Corp.	₩	-	₩	-	₩ 12,23	2 ₩	30,349	₩	42,581		
Associates and joint ventures											
SEETEC Co., Ltd.		29,368		-	19,12	7	10,939		59,434		
TECWIN Co., Ltd.		-		-		-	328		328		
HUAJIN NEW ENERGY MATERIALS(QUZHOU) CO., LTD.		34,300		-		-	-		34,300		
PT. HLI Greenpower		-		-		-	88,093		88,093		
Others		1		-		-	47		48		
Other related parties											
D&O Corp. and its subsidiaries and affiliates		-		-		-	497,005		497,005		
LG CNS Co., Ltd. and its subsidiaries		536		-	1,22	1	495,940		497,697		
Others		-		-		-	1,168		1,168		
Others											
LG Display Co., Ltd. and its subsidiaries		28		-	45	4	47		529		
LG Electronics Inc. and its subsidiaries and joint ventures <sup>1</sup>		77,581		-	17,26	4	162,152		256,997		
Shanjin Optoelectronics (Suzhou) Co., Ltd. and its subsidiaries		449		-		-	16,965		17,414		
Others		1,488			2,14	6	7,404		11,038		
Total	₩	143,751	₩	-	₩ 52,44	4 ₩	1,310,437	₩	1,506,632		

<sup>&</sup>lt;sup>1</sup> The warranty provision related to the recall of GM Bolt is not included in the above receivables and payables.

(4) Fund transactions with related parties for the nine-month periods ended September 30, 2023 and 2022, are as follows:

2023 Borrowings1 Loans **Equity** contributions in cash **Dividends Dividends** (In millions of Korean (capital received paid reduction) Repayment **Borrowings** Repayment won) Loans Entity with a significant influence over the Group LG Corp. ₩ ₩ 235,342 ₩ - ₩ ₩ ₩ ₩ 9,075 Associates and joint ventures SEETEC Co., Ltd. 5,000 2,927 905 KOREA PRECURSOR CO., LTD. 20,384 Sam-A Aluminium Co., 46,575 Ltd. VINA PLASTICIZERS CHEM 4,444 NEXPO Co., Ltd 2,375 Mintech Co., Ltd 7,020 Other related parties LG CNS Co., Ltd. 913 Others LG Display America, 130 Inc. LG Electronics Deutschland GmbH 157 LG ELECTRONICS WROCLAW SP. Z O.O. 741 LG HOUSEHOLD & HEALTH CARE LTD. 632 729

76,354 ₩

₩

₩

3,559

₩

12,650

**Total** 

₩

9,444 ₩

235,342 ₩

2022

							2022							
						Loans					Borrowings <sup>1</sup>			
(In millions of Korean won)	Dividends Dividends received paid		Equity contributions in cash (capital reduction)			Loans	ans Repayment		Borrowings		Repayment			
Entity with a significant influence over the Group LG Corp.	₩ -	₩	282,411	₩	_	₩	_	₩	_	₩	_	₩	8,865	
Associates and joint ventures SEETEC Co., Ltd.	5,000				_		_				1		717	
LG Toray Hungary Battery Separator Kft KOREA PRECURSOR	-		-		483,638		-		-		-		-	
CO., LTD. Other related parties	-		-		20,384		-		-		-		-	
LG CNS Co., Ltd.	-		-		-		-		-		-		891	
Others														
LG Display America, Inc. LX Pantos Poland	-		-		-		-		-		-		129	
sp.z.o.o PANTOS LOGISTICS	-		-		-		-		-		62		7	
MEXICO S.A. de C.V LX PANTOS TURKEY LOJISTIK	-		-		-		-		-		2,384		320 41	
LG Electronics Deutschland GmbH	-		-		-		-		-		-		218	
LG ELECTRONICS WROCLAW SP. Z O.O.	-		-		-		_		-		_		1,047	
LG HOUSEHOLD & HEALTH CARE LTD.			-		-		-		-		_		469	
Total	₩ 5,000	₩	282,411	₩	504,022	₩	-	₩	-	₩	2,784	₩	12,704	

<sup>&</sup>lt;sup>1</sup> The amounts represent lease liabilities that were recognized or repaid for the nine-month periods ended September 30, 2023 and 2022.

(5) Compensation for key management of the Group for the nine-month periods ended September 30, 2023 and 2022, consists of the following:

(In millions of Korean won)		2023		2022		
Short-term employee benefits	₩	109,858	₩	90,609		
Postemployment benefits		10,583		9,011		
Total	₩	120,441	₩	99,620		

Key management includes directors and audit committee members having duties and responsibilities over planning, operations and controlling of the Group's business activities.

There is no loss allowance recognized against receivables from related parties as of September 30, 2023, and December 31, 2022; therefore, there are no impairment losses recognized against the receivables from related parties for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022.

As at September 30, 2023, payment guarantees provided by the Group for related parties are listed in Note 18.

# 32. CASH FLOWS:

Cash generated from operations for the nine-month periods ended September 30, 2023 and 2022, is as follows:

(In millions of Korean won)		2023	2022
Profit before income tax			
Profit before income tax from continuing operations	₩	2,280,345	₩ 2,798,290
Profit before income tax from discontinued operations		14,309	122,414
-		2,294,654	2,920,704
Adjustments for			
Depreciation		2,599,969	2,275,556
Amortization		295,702	212,444
Postemployment benefits		123,751	157,783
Finance income		(734,780)	(894,735)
Finance costs		957,933	1,292,916
Foreign exchange differences		(86,501)	(304,003)
Loss (gain) on valuation of inventories		(114,768)	121,246
Gain on disposal of property, plant and equipment		(17,987)	(76,829)
Gain on disposal of intangible assets		(191)	(8)
Loss on disposal of property, plant and equipment		73,659	42,675
Loss on disposal of intangible assets		24,845	22,930
Impairment loss on property, plant and equipment		4,160	48,064
Impairment loss on intangible assets		-	314
Impairment loss on investments		12,549	-
Impairment loss on investments in associates and joint			
ventures		2,010	-
Additions to provisions		746,714	305,199
Other income/expenses		77,512	3,187
Decrease (increase) in inventories		1,714,858	(3,940,452)
Increase in trade receivables		(839,340)	(1,641,197)
Decrease (increase) in other receivables		(607,621)	75,187
Decrease (increase) in other current assets		116,960	(408,512)
Increase (decrease) in trade payables		(289,095)	780,256
Increase in other payables		216,402	125,015
Increase (decrease) in other current liabilities		(344,050)	139,972
Decrease in provisions		(828,836)	(1,118,643)
Decrease in net defined benefit liabilities		(7,481)	(1,367)
Other cash flows from operations		118,280	(43,255)
Cash generated from operations	₩	5,509,308	₩ 94,447

Changes in liabilities arising from financial activities for the nine-month periods ended September 30, 2023 and 2022, are as follows:

			2	023		
			N	on-cash transact	tions	
(In millions of Korean won)	As at January 1, 2023	Cash flows from financing activities	Acquisition	Amortization	Others	As at September 30, 2023
Borrowings Debentures Lease liabilities	₩ 7,609,924 7,964,957 389,638	4,298,138	₩ - 453,039	₩ 270 26,754	₩ 512,301 (264,556) (277,197)	₩ 9,407,377 12,025,293 474,986
Other payables for the reverse factoring arrangement	-	(694,580)		_	825,480	130,900
Total	₩ 15,964,519	₩ 4,797,946	₩ 453,039	₩ 27,024	₩ 796,028	₩ 22,038,556
				022 on-cash transact	tions	
(In millions of Korean won)	As at January 1, 2022	Cash flows from financing activities	Acquisition	Amortization	Others	As at September 30, 2022
Borrowings Debentures Lease liabilities Other payables for the reverse	₩ 6,373,909 8,072,580 319,245	(271,766)	₩ - - 141,254	₩ - 5,981 -	₩ 579,970 569,035 12,033	₩ 8,338,382 8,375,830 402,558
factoring arrangement Total	299,645 ₩ 15,065,379		<u>-</u> ₩ 141,254	<del>-</del> ₩ 5,981	<del>-</del> ₩ 1,161,038	<u>-</u> ₩ 17,116,770

Significant non-cash transactions for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)		2023	2022		
Reclassification of construction in progress	₩	8,876,980	₩	4,307,108	
Reclassification of machinery in transit		154,692		75,914	
Reclassification of long-term borrowings into current portion		2,321,366		2,216,099	
Other payables related to acquisitions of property, plant and equipment and intangible assets		283,522		1,575,205	
Reclassification of other payables under the reverse					
factoring arrangement		825,480		-	
Reclassification of non-current assets held for sale		194,842		23,129	
Reclassification of non-current liabilities held for sale		20,219		15	

## 33. <u>SEGMENT INFORMATION:</u>

General information about the Group's reportable segments is as follows:

Segment	Products or services	Major customers
Petrochemicals	ABS, PC, PE, PP, Acrylic, Alcohol, SAP, PVC, Synthetic rubber, Special resin, BPA, Ethylene, Propylene and others	LG Electronics Inc., OCI Group Co. Ltd., Mitsubishi Corp. and others
LG Energy solution	Mobile batteries, Automotive batteries, Electricity storage batteries and others	Hewlett-Packard Co., GM Corp. and others
Advanced materials	Automotive components, LCD Photoresist, OLED materials, anodic materials and others	LG Display Co., Ltd., Samsung Display Co., Ltd., BOE, AUO and others
Life sciences	Growth hormone, Vaccine, Antidiabetic, agricultural chemicals and others	UNICEF, Intervet, SOUSAM IMPORTACAO E EXPORTACAO LTDA and others
Common and others <sup>1</sup>	Crop protection products, Seeds, Fertilizers, General management, sales and R&D and others	National Agriculture Cooperative Federation and others

<sup>&</sup>lt;sup>1</sup> The management approved to dispose of LCD polarizer business from the subsidiary in Taiwan, polarizer and polarizer material business and the related profit and loss are presented as discontinued operations is disclosed in Note 34.

Segment information on revenue, profit and loss for the nine-month periods ended September 30, 2023 and 2022, are as follows:

(In millions of Korean won)	Petro- chemicals	LG Energy solution	Advanced materials	Life sciences	Common and others <sup>3</sup>	Total	
Total segment revenue Intersegment revenue	₩ 13,548,661 457,924	₩ 25,744,146 54,866	₩ 6,088,368 4,252,833	₩ 886,323 39,171	₩ 665,242 12,963	₩ 46,932,740 4,817,757	
Revenue from external customers <sup>1</sup>	13,090,737	25,689,280	1,835,535	847,152	652,279	42,114,983	
Operating profit (loss) <sup>2</sup>	(26,952)	1,825,014	531,411	22,471	(70,175)	2,281,769	
Depreciation and amortization	771,252	1,642,253	139,122	103,587	204,503	2,860,717	
			2022	2			
(In millions of Korean	Petro-	LG Energy	Advanced		Common		

2023

						2022	-					
(In millions of Korean won)	Petro- chemicals		LG Energy solution		Advanced materials		Life sciences		Common and others <sup>3</sup>		Total	
Total segment revenue	₩	17,444,208	₩	17,061,066	₩	5,395,578	₩	664,361	₩	741,870	₩	41,307,083
Intersegment revenue		461,654		8,947		3,438,075		45,120		26,206		3,980,002
Revenue from external customers <sup>1</sup>		16,982,554		17,052,119		1,957,503		619,241		715,664		37,327,081
Operating profit (loss) <sup>2</sup>		1,240,438		978,300		871,771		62,245		(382,772)		2,769,982
Depreciation and amortization		743,550		1,323,150		124,822		64,543		194,538		2,450,603

<sup>&</sup>lt;sup>1</sup> Revenue from external customers consists of sales of goods. Interest income and dividend income are included in finance income.

Segment information on assets and liabilities as at September 30, 2023, and December 31, 2022, is as follows:

	September 30, 2023							
(In millions of Korean won)	Petro-chemicals	LG Energy solution	Advanced materials	Life sciences	Common and others	Total		
Reportable segment asset <sup>1</sup> Investments in	₩ 15,293,874	₩ 45,128,969	₩ 7,579,237	₩ 2,689,904	₩ 6,808,037	₩ 77,500,021		
associates and joint ventures	48,895	228,038	571,217	17	152,155	1,000,322		
Reportable segment liability <sup>1</sup>	5,207,381	20,472,446	2,277,834	538,712	7,638,442	36,134,815		

<sup>&</sup>lt;sup>2</sup> Management assesses the performance of the operating segments based on a measurement of operating profit of segment.

<sup>&</sup>lt;sup>3</sup> Common and other segments include operating segments not qualifying as a reportable segment, supporting divisions, as well as R&D divisions.

	December 31, 2022											
(In millions of Korean won)	Petro-chemicals	LG Energy solution	Advanced materials	Life sciences	Common and others	Total						
Reportable segment asset <sup>1</sup> Investments in associates and	₩ 14,894,527	₩ 38,260,414	₩ 6,828,293	₩ 1,794,744	₩ 6,195,845	₩ 67,973,823						
joint ventures Reportable segment	47,816	203,696	547,016	17	151,008	949,553						
liability <sup>1</sup>	5,375,055	17,688,146	2,292,775	333,712	4,803,008	30,492,696						

<sup>&</sup>lt;sup>1</sup> Assets and liabilities are measured in a manner consistent with those in the condensed consolidated interim financial statements and allocated on the basis of segment operation.

External sales and non-current assets by geographical segments from continuing operations for the nine-month periods ended September 30, 2023 and 2022, and as at September 30, 2023, and December 31, 2022, are as follows:

		Sal	les		Non-current assets <sup>1</sup>			
(In millions of					Se	ptember 30,	D	ecember 31,
Korean won) 2023 2022		2022		2023	2022			
Korea <sup>2</sup>	₩	8,179,180	₩	8,301,587	₩	18,927,261	₩	17,886,010
China		8,784,168		11,253,504		5,376,645		4,875,247
Asia/Oceania		4,854,163		4,182,376		333,337		229,732
America		9,118,129		4,476,452		10,554,206		4,846,029
Europe		11,128,732		8,773,424		4,915,754		4,609,954
Others		50,611		339,738		-		
Total	₩	42,114,983	₩	37,327,081	₩	40,107,203	₩	32,446,972

<sup>&</sup>lt;sup>1</sup> Represents aggregate amount of property, plant and equipment; intangible assets; and investment properties.

During the nine-month period ended September 30, 2023, revenue to single external customers accounting for more than 10% of the Group's revenue were \(\pmu4,564,657\) million (\(\pmu3,403,034\) million in previous period), all from LG Energy Solution, Ltd. And there are no single external customers who contribute more than 10% of the Group's revenue for nine-month period ended September 30, 2022.

<sup>&</sup>lt;sup>2</sup> Domestic sales include the exports made through local letters of credit.

### 34. ASSETS HELD FOR SALE AND DISCONTINUED OPERATIONS:

#### 34.1 Assets Held for Sale and Liabilities

In accordance with the final approval of management, the Group decided to dispose of polarizer and related material business (September 2023) and diagnosis business (June 2023) and all shares of VINA PLASTICIZERS CHEMICAL COMPANY LIMITED (September 2022). As a result, the related assets were reclassified as assets held for sale.

The land of FarmHannong Co., Ltd., which is held for sale in accordance with the river maintenance plan, is in the process of the compensation plan with Gimhae City Hall. The Group decided to dispose of the land and buildings related to the former horticultural factory of FarmHannong Co., Ltd. (November 2022), and related assets were reclassified as assets held for sale.

Details of assets of the disposal group classified as held for sale as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septen	nber 30, 2023	Decem	ber 31, 2022
Assets of disposal group				
Property, plant and equipment	₩	110,502	₩	10,658
Intangible assets		35,721		-
Inventories		19,287		-
Trade and other receivables		19,812		-
Right-of-use assets		6,629		-
Investments in joint ventures		16,822		16,822
Other current and non-current assets		13,549		
Total	₩	222,322	₩	27,480
Liabilities of disposal group				
Trade and non-trade payables	₩	15,919	₩	-
Other current and non-current liabilities		5,269		-
Net defined benefit liabilities (assets)		(969)		-
Total	₩	20,219	₩	-

As the net fair value of the assets of the disposal group is expected to exceed the carrying amount, there is no impairment loss recognized for the disposal group classified as assets held for sale as of September 30, 2023.

## 34.2 Discontinued Operations

The Group decided to discontinue polarizer and related material business with the resolution of the board of directors in September 2023 and, substantially, discontinued the related business as at September 2023. Also, the Group decided to discontinue glass substrate business with the resolution of the board of directors in January 2020 and, substantially, discontinued the related business as at March 2020. In addition, the Group decided to dispose of LCD polarizer business with the resolution of the board of directors in June 2020, and the disposal was completed in February 2021. The Group disposed of LCD polarizer business in Taiwan in May 2022, and the disposal was completed in July 2022. Accordingly, the profit and loss from the related operations are presented as discontinued operations and the comparative consolidated statements of profit or loss have been restated.

Comprehensive income information from discontinued operation for the nine-month periods ended September 30, 2023 and 2022, are as follows:

	2023									
(In millions of Korean won)	LCD polarizer		Glass substrate		Polarizer and related material		Total			
Revenue	₩	306	₩	1	₩	665,019	₩	665,326		
Expense		-		(3,464)		(647,553)		(651,017)		
Profit (loss) before income tax of discontinued operation		306		(3,463)		17,466		14,309		
Income tax benefit (expense)		100		(1,129)		2,853		1,824		
Profit (loss) after income tax of discontinued operations	₩	406	₩	(4,592)	₩	20,319	₩	16,133		

	2022								
(In millions of Korean won)	LCD polarizer		Glass substrate		Polarizer and related material			Total	
Revenue	₩	78,861	₩	354	₩	777,813	₩	857,028	
Expense		(47,892)		(2,498)		(684,224)		(734,614)	
Profit (loss) before income tax of discontinued operation		30,969		(2,144)		93,589		122,414	
Income tax benefit (expense)		1,793		524		(7,552)		(5,235)	
Profit (loss) after income tax of discontinued operations	₩	32,762	₩	(1,620)	₩	86,037	₩	117,179	

Net cash flows from discontinued operations for the nine-month periods ended September 30, 2023 and 2022, are as follows:

		20	23	
(In millions of Korean won)	LCD polarizer	Glass substrate	Polarizer and related material	Total
Net cash inflow (outflow) from operating activities Net cash inflow (outflow) from	₩ (14,328)	₩ (3,945)	₩ 64,211	₩ 45,938
investing activities	(24)	(26)	(12,107)	(12,157)
financing activities	-	-	(20,160)	(20,160)
operating activities Net cash inflow (outflow) from investing activities Net cash inflow (outflow) from	(24)	,	(12,107)	(12,1

	2022								
(In millions of Korean won)	LCD polarizer	Glass substrate	Polarizer and related material	Total					
Net cash inflow (outflow) from operating activities Net cash inflow (outflow) from	₩ 14,846	₩ (2,322)	₩ (51,755)	₩ (39,231)					
investing activities Net cash inflow (outflow) from	127,624	604	(57,214)	71,014					
financing activities	(142,470)	1,718	-	(140,752)					

## 35. ASSETS AND LIABILITIES RELATED TO CONTRACTS WITH CUSTOMERS:

Assets and liabilities recognized by the Group related to contracts with customers as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	<b>September 30, 2023</b>			<b>December 31, 2022</b>		
Contract assets  Due from customers for contract work	₩	44,433	₩	11,570		
Total contract assets	₩	44,433		11,570		
Contract liabilities  Advances in relation to revenue from the Group's main						
business activities	₩	261,316	₩	364,763		
Expected customer incentives		95,253		6,277		
Unearned revenue		103,770		140,024		
Due to customers for contract work	-	2,846		14,315		
Total contract liabilities	₩	463,185	₩	525,379		

Revenue recognized in relation to contract liabilities

The following table shows how much of the revenue recognized during the current quarter and previous reporting period relates to carried-forward contract liabilities and how much relates to performance obligations that were satisfied in the prior periods:

(In millions of Korean won)		2023	2022		
Revenue recognized in the current period from the contract					
liabilities balance at the beginning of the period	₩	262,235	₩	220,253	
Advances in relation to revenue from the Group's main business activities		220,280		179,504	
Unearned revenue		41,955		40,749	
Revenue recognized from performance obligations satisfied in previous periods		-		-	

### **36. INVESTMENT PROPERTIES:**

Details of investment properties as at September 30, 2023, and December 31, 2022, are as follows:

	<b>September 30, 2023</b>							
(In millions of Korean won)		Cost		Accumulated depreciation		Accumulated impairment	]	Book amount
Land	₩	4,475	₩	(72)	₩	(497)	₩	3,906
Buildings		123,757		(18,466)		(18,252)		87,039
Total	₩	128,232	₩	(18,538)	₩	(18,749)	₩	90,945

	December 31, 2022							
(In millions of Korean won)		Cost		Accumulated depreciation		Accumulated impairment		Book amount
Land	₩	5,287	₩	(46)	₩	(497)	₩	4,744
Buildings		123,296		(15,764)		(18,250)		89,282
Total	₩	128,583	₩	(15,810)	₩	(18,747)	₩	94,026

Changes in investment properties for the nine-month period ended September 30, 2023, and for the year ended December 31, 2022, are as follows:

	September 30, 2023							<b>December 31, 2022</b>					
(In millions of Korean won)	]	Land	В	uilding		Total		Land	В	uilding		Total	
Beginning balance	₩	4,744	₩	89,282	₩	94,026	₩	4,211	₩	52,086	₩	56,297	
Acquisitions/transfers		-		323		323		1,562		60,018		61,580	
Disposals/transfers		(812)		(4)		(816)		(486)		(1,493)		(1,979)	
Depreciation		(26)		(2,562)		(2,588)		(46)		(3,130)		(3,176)	
Impairment <sup>1</sup>		-		-		-		(497)		(18,199)		(18,696)	
<b>Ending balance</b>	₩	3,906	₩	87,039	₩	90,945	₩	4,744	₩	89,282	₩	94,026	

<sup>&</sup>lt;sup>1</sup> Impairment recognized for Magok contributed public facility classified as investment properties. As the recoverable amount was less than the carrying amount due to the impact of lease payment setting for public purposes and others, impairment losses were recognized during the year ended December 31, 2022.

The fair value of investment properties is measured either by independent professional appraisers with certified qualifications or measured based on official appraised value of land and available information from recent transactions of similar properties, and it is classified as 'Level 3' of the fair value hierarchy. The fair value of investment properties as at September 30, 2023, is \$107,301 million (December 31, 2022: \$102,298 million).

During the nine-month period ended September 30, 2023, rental income from investment properties under operating lease is \( \partial 4,652 \) million (2022: \( \partial 5,045 \) million), and operating expenses incurred for investment properties that generated rental income (including maintenance and repair expenses) are \( \partial 2,516 \) million (2022: \( \partial 1,066 \) million). During the nine-month period that ended September 30, 2023, there are no operating expenses incurred for investment properties that do not generate rental income (including maintenance and repair expenses) (2022: \( \partial 6 \) million).

### Operating lease

Investment properties are leased to tenants under operating leases with monthly rent payments. Where considered necessary to reduce credit risk, the Group may obtain bank guarantees for the term of the lease.

Although the Group is exposed to changes in the residual value at the end of the current leases, the Group typically enters new operating leases and, therefore, will not immediately realize any reduction in residual value at the end of these leases. Expectations about the future residual values are reflected in the fair value of investment properties.

The future minimum lease payments expected to be received in relation to the above operating lease agreement for investment properties as at September 30, 2023, and December 31, 2022, are as follows:

(In millions of Korean won)	Septemb	er 30, 2023	<b>December 31, 2022</b>	
Within one year	₩	2,875	₩	8,575
Within two years		2,049		2,039
Within five years		4,591		6,106
Total	₩	9,515	₩	16,720

### 37. BUSINESS COMBINATION:

(1) To establish a foundation for becoming a global pharmaceutical company, the Group acquired 100% interest in Aveo Pharmaceuticals, Inc. on January 20, 2023, for the purpose of securing commercialization capabilities and preemptive products in the US anticancer market.

Details of consideration transferred, assets and liabilities recognized as a result of the business combination paid to Aveo Pharmaceuticals. Inc., are as follows:

The goodwill of \(\foat\)275,856 million resulting from the business combination arises from various factors, including the expected increase in revenue resulting from the combination of the businesses of the company and Aveo Pharmaceuticals, Inc.

(In millions of Korean won)	A	Amount
Consideration transferred		
Cash and cash equivalents	₩	701,103
Total consideration	₩	701,103
Identifiable assets acquired and liabilities assumed		
Cash and cash equivalents	₩	8,902
Trade and other receivables <sup>1</sup>		34,687
Inventories		845
Property, plant and equipment		935
Intangible assets		565,448
Other assets		246
Trade and non-trade payables		(40,941)
Other payables		(686)
Deferred tax liabilities		(144,189)
Fair value of net identifiable assets acquired		425,247
Goodwill (gain from a bargain purchase)		275,856
	₩	701,103

<sup>&</sup>lt;sup>1</sup> The fair value of trade and other receivables is equal to the total contractual amount.

The revenue and net loss reflected in the consolidated statement of income contributed by Aveo Pharmaceuticals. Inc. after the acquisition were \W143,933 million and \W40,216 million, respectively.

Revenue and profit or loss of the Group for the nine-month period ended September 30, 2023, would have been \$42,126,724 million and \$1,898,588 million, respectively, as though the acquisition of Aveo Pharmaceuticals. Inc. had occurred as at the beginning of the nine-month period ended September 30, 2023.

The Group accounts for the business combination with provisional amounts as at September 30, 2023, and the amounts may be adjusted if there is new information obtained about facts and circumstances related to business combination within the measurement period of one year from the acquisition date.

(2) On February 28, 2022, the Group acquired 100% shares of LG Energy Solution Vertech Inc., an electricity storage batteries installation service provider in the USA. The acquisition is expected to increase sales through expanded vertical integration by strengthening contact points with customers of electricity storage batteries.

Details of consideration transferred, assets and liabilities recognized as a result of the business combination paid to LG Energy Solution Vertech Inc., are as follows:

Gain from a bargain purchase amounting to \$30,673 million that occurred from the acquisition is recognized as other non-operating income in the consolidated statements of profit or loss.

(In millions of Korean won)	A	mount
Consideration transferred		
Cash and cash equivalents	₩	16,168
Total consideration	W	16,168
Identifiable assets acquired and liabilities assumed		
Cash and cash equivalents	₩	7,748
Trade and other receivables <sup>1</sup>		56,333
Inventories		5,477
Property, plant and equipment		7,251
Intangible assets		1,503
Other assets		12,295
Trade and non-trade payables		(25,859)
Other payables		(15,543)
Deferred tax liabilities		(2,364)
Fair value of net identifiable assets acquired		46,841
Goodwill (gain from a bargain purchase)		(30,673)
- · · · · · · · · · · · · · · · · · · ·	₩	16,168

<sup>&</sup>lt;sup>1</sup> The fair value of trade and other receivables is equal to the total contractual amount.

# 38. EVENTS AFTER THE REPORTING PERIOD:

(1) The Group completed the sale of its diagnostic business on October 4, 2023, to reorganize its business structure and focus its capabilities on the three new growth businesses.