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Greenhouse ga	s emissions	Unit	2021	2022 €	2023 2
Scope 1+2	Global	tCO2e	10,335,203	10,035,577	9,558,199
emissions	Korea	tCO₂e	8,839,571	8,616,934	8,129,037
	excl. Korea	tCO2e	1,495,632	1,418,643	1,429,162
	Emission intensity	tCO2e /	0.4444	0.4090	0.4600
		KRW 1M			
Scope 1	Global	tCO ₂ e	5,439,321	5,628,898	5,176,673
emissions	Korea	tCO2e	5,290,343	5,489,586	5,032,008
	excl. Korea	tCO2e	148,978	139,312	144,665
	Emission intensity	tCO ₂ e /	0.2339	0.2294	0.2491
		KRW 1M			
Scope 2	Global	tCO ₂ e	4,895,882	4,406,678	4,381,526
emissions	Korea	tCO2e	3,549,228	3,127,348	3,097,029
	excl. Korea	tCO ₂ e	1,346,654	1,279,330	1,284,497
	Emission intensity	tCO2e /	0.2105	0.1796	0.2109
		KRW 1M			
Scope 3 0	Korea	tCO ₂ e	1,339,125	1,217,390	11,471,953
emissions					
Category	1. Purchased goods and	tCO ₂ e	571,164	425,556	10,215,107
	services				
	2. Capital goods	tCO ₂ e	56	83	245,912
	3. Fuel and energy-related	tCO ₂ e	175,732	193,940	399,605
	activities (not included in				
	Scope 1 or 2)				
	Upstream transportation and distribution	tCO2e	197,919	124,744	611,329
	5. Waste generated in	tCO2e	63,358	61,972	Developing
	operations				calculation
	6. Business travel	tCO ₂ e	970	621	methods
	7. Employee commuting	tCO2e	7,488	10,474	
	15. Investments	tCO ₂ e	322,438	400,000	

[•] Figures for Scope 1 and Scope 2 emissions in Korea in 2022 have been partially revised based on the verification results of the Ministry of Environment.

LG Chem's Scope 3 Emissions Reporting

- With the introduction of sustainability reporting and climate disclosure rules and the growing importance of Scope 3 management, we are reexamining our data collection and calculation methods for Scope 3 emissions.
- The calculation is based on the GHG Protocol's Corporate Value Chain (Scope 3) Accounting and Reporting Standard (2011). In 2023, we expanded the scope of activity data collection and calculated Category 1 to 4 emissions using the emission factors for each activity (Figures for Scope 3 emissions in 2021 and 2022 remain unchanged from last year's report and were not recalculated using the 2023 calculation criteria).
- Category 1: Calculated emissions based on the purchase statements (more than 95% of the relevant purchase amount) of key material inputs (raw materials, intermediary goods, goods) of Petrochemicals and Advanced Materials businesses.
- Category 2: Calculated emissions based on asset statements of acquired, acquired/ replaced tangible goods (buildings, facilities, machinery, vehicles, equipment, etc.).
- Category 3: Calculated emissions based on external fuel and energy purchases on the Statement of Greenhouse Gas Emissions.
- Category 4: Calculated transport-related emissions based on goods calculated in Category 1.
- We plan to continue reviewing and developing calculation methods for other categories relevant to our value chain.

Pigures for Scope 1 and Scope 2 emissions in Korea in 2023 are based on values reported to the Ministry of Environment, and the above figures are subject to revision depending on the verification results.

Emission Intensity = Global GHG emissions / Revenues excluding LG Energy Solution, and Common and others. Figures for emission intensity in 2021 and 2022 have been partially revised due to the restatements reflecting discontinued operations.

⁴ Calculation of Scope 3 emissions has been limited to select categories of the Greenhouse Gas (GHG) Protocol's Corporate Value Chain (Scope 3) Accounting and Reporting Standard (2011).

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Energy consumption	on	Unit	2021	2022 0	2023 2
Total energy	Global	TJ	147,322	151,401	133,424
consumption	Korea	TJ	138,022	142,386	124,335
	excl. Korea	TJ	9,300	9,015	9,089
	Energy intensity	TJ / KRW 1M	0.0063	0.0062	0.0064
Direct energy	Global	TJ	109,043	107,352	96,272
Consumption	Korea	TJ	106,349	104,876	93,692
(fuel)	excl. Korea	TJ	2,694	2,476	2,580
	Energy intensity	TJ / KRW 1M	0.0047	0.0044	0.0046
Indirect energy	Global	TJ	38,279	44,049	37,152
consumption	Korea	TJ	31,673	37,510	30,643
(steam, electricity)	excl. Korea	TJ	6,606	6,539	6,509
	Energy intensity	TJ / KRW 1M	0.0016	0.0018	0.0018
Renewable energy Global		MWh	306,316	741,480	878,569
consumption 4					

- Figures for energy consumption in Korea in 2022 have been revised based on the verification results of the Ministry of Environment.
- ② Figures for energy consumption in Korea in 2023 may be revised in the future based on the verification results of the Ministry of Environment.
- ① Energy Intensity = Global energy consumption / Revenues excluding LG Energy Solution, and Common and others. Figures for energy intensity in 2021 and 2022 have been partially revised due to the restatements reflecting discontinued operations.
- Means of renewable energy procurement include green pricing, renewable energy certificates (solar, wind), and self-generation (solar).

Water resources m	nanagement	Unit	2021	2022	2023
Water withdrawal	Total	m³	78,063,643	74,781,261	73,423,047
	Surface water	m³	-	-	-
	Groundwater	m³	444,068	440,512	464,569
	Seawater	m³	-	-	-
	Municipal water	m³	77,597,935	74,326,951	72,813,032
	Others 1	m³	21,640	13,798	145,446
	Water withdrawal intensity	m³ / KRW 1M	3.2434	2.9400	3.5336
	in regions with water stress	m³	4,521,147	4,457,410	4,405,035
Wastewater	Total	m³	21,449,266	21,190,129	22,543,478
discharge	Water discharge intensity	m³ / KRW 1M	0.8912	0.8831	1.0849
	in regions with water stress	m³	1,656,575	1,765,931	1,625,892
Water consumption	nTotal	m³	56,614,377	53,591,133	50,879,569
	Water consumption intensity	m³ / KRW 1M	2.3522	2.1069	2.4486
	in regions with water stress	m³	2,864,572	2,691,479	2,779,143
Water reuse rate 9		%	2.30	2.57	2.65

[•] Other water sources include rainwater, etc.

Water resour	ces management (Yeosu, Daesan)	Unit	2021	2022	2023
Yeosu	Water withdrawal	m³	50,420,936	48,143,272	43,611,260
	Municipal water ①	m³	50,420,936	48,143,272	43,611,260
	Water consumption	m³	40,209,460	38,272,526	32,254,609
Daesan	Water withdrawal	m³	14,130,202	13,096,040	17,462,242
	Municipal water ①	m³	14,130,202	13,096,040	17,462,242
	Water consumption	m³	8,611,123	7,967,640	12,039,271

• Yeosu and Daesan plants source 100% of water from municipal water.

Water pollution m	anagement	Unit	2021	2022	2023
Water pollutant discharge	COD	Metric tons	589	472	244
	Discharge intensity	kg / KRW 1M	0.0245	0.0186	0.0117
	TOCO	Metric tons	318	457	381
	Discharge intensity	kg / KRW 1M	0.0132	0.0179	0.0183
	SS	Metric tons	255	240	228
	Discharge intensity	kg / KRW 1M	0.0106	0.0094	0.0110
	T-N	Metric tons	273	211	211
	Discharge intensity	kg / KRW 1M	0.0113	0.0083	0.0102
	T-P	Metric tons	25	34	41
	Discharge intensity	kg / KRW 1M	0.0010	0.0013	0.0020

• Reflects the gradual transition of reporting metrics from COD to TOC under the Korean Water Environment Conservation Act.

Air pollution ma	nagement	Unit	2021	2022	2023
Air pollutant	Dust	Metric tons	167	183	176
emissions	Emission intensity	kg / KRW 1M	0.0069	0.0072	0.0085
	NOx	Metric tons	4,134	3,823	3,150
	Emission intensity	kg / KRW 1M	0.1718	0.1503	0.1516
	SOx	Metric tons	184	240	119
	Emission intensity	kg / KRW 1M	0.0076	0.0094	0.0057
	VOCs	Metric tons	956	1,206	151
	Emission intensity	kg / KRW 1M	0.0397	0.0474	0.0073
	HAPs	Metric tons	273	298	105
	Emission intensity	kg / KRW 1M	0.0113	0.0117	0.0051

② Calculation of water reuse rate includes the amount of recycled water within the operation and purchased reclaimed wastewater.

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Waste management		Unit	2021	2022	2023
Waste generated	Total	Metric tons	278,345	279,585	248,036
	Waste intensity	kg / KRW 1M	0.0120	0.0114	0.0119
Nonhazardous waste	Total	Metric tons	153,981	150,922	125,043
	Recycling	Metric tons	108,145	111,612	97,692
	Incineration (w/ heat recovery)	Metric tons	22,682	23,149	13,779
	Incineration	Metric tons	12,359	6,177	4,433
	Landfill	Metric tons	10,795	9,984	9,138
	Other	Metric tons	-	-	-
Hazardous waste	Total	Metric tons	124,364	128,663	122,994
	Recycling	Metric tons	53,961	60,374	57,458
	Incineration (w/ heat recovery)	Metric tons	53,407	54,361	52,210
	Incineration	Metric tons	15,501	12,862	11,930
	Landfill	Metric tons	1,495	1,066	1,395
	Other	Metric tons	-	-	-
Waste recycling rate	incl. Incineration (w/ heat recovery)	%	86	89	89
	excl. Incineration (w/ heat recovery)	%	58	62	63
Zero Waste to Landfill (ZWTL) certifications 1		Site	-	3	4

1 Gimcheon, Cheongju (Separator), Guangzhou, Quzhou.

Hazardous substances management 0	Unit	2021	2022	2023 2
Proportion of sold products containing	%	16.10	9.69	20.46
REACH @ Annex 17 substances				
Proportion of sold products containing REACH	%	1.57	2.47	4.85
SVHCs substances				
Proportion of sold products containing	%	2.71	4.65	7.07
CMR substances				
Hazardous chemicals risk assessment 6	%	25.09	26.33	26.64

- Calculated the proportion of products containing each substance relative to the number of products sold per year.
- Proportion of products containing hazardous substances has increased with the addition of Annex 17, SVHCs, and CMR substances compared to 2022.
- 3 REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.
- 4 SVHC: Substances of Very High Concern.
- **3** CMR: Carcinogenic, Mutagenic and Reprotoxic chemicals.
- O Proportion of substances that have completed or are exempt from substance registration among the constituent substances of the sold product.

Reused/recycled materials		Unit	2021	2022	2023
Proportion of reused/recycled	PC	%	1.44	1.68	2.50
materials 0 Input	ABS 2	%	0.02	0.12	0.19
	PO ②	%	-	0.05	0.18
	PVC ②	%	-	-	0.0010
	Plasticizers 2	%	-	-	0.0019

- Reused/recycled Materials refer to Post-Consumer Recycled (PCR) or Post-Industrial Recycled(PIR) products. The proportion of reused/recycled input is the amount of PCR or PIR material input relative to the total material input.
- Pollowing the expansion of the recycled plastics business, the proportion of reused/recycled materials for ABS, PO, PVC, and Plasticizers products have been calculated in addition to PC products.

Employee and pro	cess EH&S	Unit	2021	2022 0	2023
Employees	Fatality Rate 2	Rate	0.0056	-	-
	TRIR	Rate	0.7642	0.6079	0.8344
	LTIR	Rate	0.2454	0.0968	0.1597
Subcontractors	Fatality Rate	Rate	-	0.0104	-
	TRIR	Rate	0.5078	1.1025	0.7816
	LTIR	Rate	0.2132	0.3640	0.1804
Process safety 6	PSE •	Event	-	1	-
	PSER 0	Rate	-	0.0035	-
Transport incident	tsRoad	Event	1	1	-
	Rail	Event	-	-	-
	Ship	Event	-	-	-

- From 2022 onward, the accident rate is calculated by applying actual hours worked.
- Patality rate: Total number of fatality cases * 200,000 / total hours worked.
- § TRIR(Total Recordable Incident Rate): Total number of recordable incidents * 200,000 / total hours worked.
- 4 LTIR(Lost Time Incident Rate): Total number of lost time incidents * 200,000 / total hours worked.
- Galculations for process safety events are based on the internal accident index standard which includes injuries, fires, leakages, amount of loss, etc.
- PSE(Process Safety Events).
- PSER(Process Safety Event Rate): Number of process safety events * 200,000 / total hours worked.

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Diversity, Equity, and Inclusion	(DE&I) ①	Unit	2021	2022	2023
No. of employees 9 by region	Total	Person	18,792	19,627	19,218
	Korea	Person	13,906	14,572	14,360
	China	Person	3,564	3,705	3,488
	Asia-Pacific (excl. China)	Person	627	578	513
	Europe	Person	419	471	479
	Americas	Person	276	301	378
No. of executives 3	Total	Person	108	113	113
	Male	Person	100	103	105
	Female	Person	8	10	8
No. of employees by	Non-fixed term	Person	13,652	14,249	14,029
employment contract (Korea)	Fixed-term	Person	254	323	331
No. of employees by gender	Male	Person	11,946	12,356	12,088
(Korea)	Female	Person	1,960	2,216	2,272
	Ratio of female employees (non-fixed term)	%	14	15	16
	Ratio of female employees (incl. fixed term)	%	14	15	16
No. of employees by age	Under 30	Person	2,441	2,508	2,187
(Korea, non-fixed term employees)	30 to 49	Person	8,655	9,110	9,275
employees)	50 or above	Person	2,556	2,631	2,567
No. of leaders in revenue-	Male leaders 3	Person	427	486	506
related 4 departments (Korea)	Female leaders	Person	21	23	28
	Ratio of female leaders	%	5	5	5
No. of employees in	Male	Person	1,821	2,004	2,030
R&D 6 departments (Korea, non-fixed term)	Female	Person	855	962	1,020
non-nxed term)	Ratio of female employees	%	32	32	33
Social minorities (Korea)	Persons with disabilities	Person	252	250	251
	National Veterans	Person	270	286	290
Gender pay gap ①	Non-management level (base salary)	%	77	80	84
	Management () level (base salary)	%	94	94	95
	Management level (base salary + cash incentives)	%	94	94	95
	Executive level (base salary)	%	93	86	91
Parental leave (Korea)	Total number of employees due to return to work after taking parental leave	Person	129	157	90
	Male	Person	46	60	41
	Female	Person	83	97	49
	Total number of employees that did return to work after taking parental leave	Person	129	157	84
	Male	Person	46	60	39
	Famala	Danasi	00	07	4.5

Person

83

97

Female

Employee hires		Unit	2021	2022	2023
New employee	Total	Person	3,140	2,651	1,025
hires	Korea	Person	1,560	1,431	662
	excl. Korea	Person	1,580	1,220	363
by employment	Non-fixed	Person	1,330	1,261	922
contract (Korea)	Fixed-term	Person	230	170	103
by Gender (Korea)	Male	Person	1,255	1,070	466
	Female	Person	305	361	196
by Age (Korea)	Under 30	Person	759	849	409
	30 to 49	Person	635	469	201
	50 or above	Person	166	113	52

Employee turnover		Unit	2021	2022	2023
No. of voluntary turnover (Korea)	Total	Person	306	344	303
by Gender (Korea)	Male	Person	245	257	225
	Female	Person	61	87	78
by Age (Korea)	Under 30	Person	133	161	100
	30 to 49	Person	158	173	182
	50 or above	Person	15	10	21

[•] Figures for 2021 and 2022 have been partially revised due to changes in the organizational boundaries and internal classification criteria.

② Calculated based on the number of employees at the end of the fourth quarter of each year.

Executives refer to executive officers and registered directors at the Vice President level and above. Figures for 2021 and 2022 have been revised to reflect the criteria in the Business Report.

[•] Revenue-related refers to departments directly related to goods and services, such as production, sales, etc.

¹ Leaders refer to employees at the positions of team leader and above, excluding executives.

³ R&D refers to departments related to research & development, technology, etc.

[•] Gender pay gap is calculated by dividing the average remuneration of all women in a position by the average compensation of all men in the same position. There are no distinctions based on gender, while factors such as years of service contribute to the pay gap.

¹ Management refers to employees at the level of professionals/senior managers and above, excluding executives.

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Training and Developme	nt	Unit	2021	2022	2023
Training hours	Total	Hour	567,604	506,803	373,011
(Korea, non-fixed term)	Male	Hour	449,714	412,266	300,215
	Female	Hour	117,890	94,537	72,796
	Average training hours	Hour / Person	41.6	35.6	19.7
	per employee				
Mandatory training hour	's Total	Hour	69,170	95,990	62,048
(Korea)	Male	Hour	57,675	86,004	56,723
	Female	Hour	11,496	9,986	5,325
Training cost (Korea)	Total	KRW 10K	1,564,100	2,139,966	2,219,761
	Average training cost	KRW 10K /	115	150	118
	per employee	Person			

Labor and human right	ts .	Unit	2021	2022	2023
Labor union (Korea)	No. of employees eligible to join	Person	7,337	7,447	6,799
	No. of employees participating	Person	5,436	5,410	5,279
	Percentage of employees participating	%	74	73	78
Percentage of employed agreements (Korea)	ees covered by collective	%	100	100	100

Supply chain manageme	ent	Unit	2021	2022	2023
ESG self-assessment	Total number of suppliers 0	Company	1,262	1,433	1,168
	Number of suppliers that have finished ESG	Company	232	762	1,000
	self-assessment				
	Total number of core suppliers 2	Company	240	178	118
	Number of core suppliers that have finished	Company	53	77	97
	ESG self-assessment				
ESG on-site audit	Total number of high-risk suppliers 3	Company	42	169	13
	Number of high-risk suppliers that have	Company	-	17	6
	finished ESG on-site audit				
	Total number of high-risk core suppliers	Company	-	1	-
	Number of high-risk core suppliers that have	Company	-	-	-
	finished ESG on-site audit				
ESG on-site audit	Number of findings 4	Case	-	-	142
findings and	Number of improvements	Case	-	-	-
improvements					

[•] Suppliers refer to domestic and overseas suppliers with records of annual purchase amounts of KRW 100M or more, and three or more purchase orders.

Social contributions an	d community engagement	Unit	2021	2022	2023
Social contributions	Total	KRW 1M	16,194	21,725	16,884
	Charitable donations	KRW 1M	9,641	17,760	13,101
	Community investments	KRW 1M	6,071	3,852	3,730
	Commercial initiatives	KRW 1M	482	113	53
Employee volunteer ho	urs	Hour	4,965	3,371	2,993

Ethics, anti-corruption, a	and fair trade	Unit	2021	2022	2023
Corruption and bribery	No. of investigated cases	Case	7	14	13
	No. of handled cases	Case	3	4	3
Unfair trade practices	No. of legal investigations	Case	-	-	-
	No. of legal actions	Case	-	_	-
Ethics training	No. of employees participating in ethics training 0	Person	13,431	15,159	15,068
	No. of employees participating in fair trade training2) ②	Person	14,413	15,191	15,298

¹ Includes contents on Jeong-Do management and the Code of Ethics.

² Includes contents related to subcontractors and compliance.

Information security an	d cybersecurity	Unit		2021	2022	2023
ISO 27001	Certified business sites	Site	4	16	16	
Information security	Awareness raising activities	Campaign	12	12	12	
training	Average training hour per employee	Minute /	30	30	10	
		Person				

Public policy and regulation	Unit	2021	2022	2023
Contributions to trade associations •	KRW 1M	2,223	2,497	3,076
Contributions to political campaigns 2	KRW 1M	-	-	-

[•] In 2023, contributions have been made to the following top 5 organizations:

 $^{{\}bf @} \ {\bf Core \ suppliers \ refer \ to \ suppliers \ in \ the \ top \ 90\% \ of \ purchase \ amounts \ and \ include \ companies \ of \ all \ sizes.}$

High-risk suppliers refer to suppliers who fall under a high-risk rating as a result of self-assessment or fall into the high-risk group due to findings of critical non-conformance items, etc.

The increase in the number of findings is attributed to on-site audits focused on ESG risk monitoring and inspection after the supplier training and support period until 2022.

⁻ World Economic Forum (WEF): 437,400 (KRW 1K)

Korea Enterprises Federation (KEF): 331,082 (KRW 1K)

Korea Vinyl Environmental Council (KOVEC): 293,000 (KRW 1K)

⁻ Korea PC/BPA Council (KPBC): 291,471 (KRW 1K)

Korea Petrochemical Industry Association (KPIA): 236,761 (KRW 1K)

¹⁰ The Political Funds Act prohibits companies from sponsoring political organizations.

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Tax reporting		Unit	2021	2022	2023
Reported	Total	KRW 1M	1,235,790	641,482	432,501
taxes 0	Korea	KRW 1M	672,683	747,539	5,387
	Asia (excl. Korea)	KRW 1M	565,833	389,245	424,168
	Europe	KRW 1M	-61,505	186,016	66,978
	Americas	KRW 1M	2,421	4,141	20,589
	Others	KRW 1M	39	247	642
	Consolidated adjustments	KRW 1M	56,319	-685,706	-85,264
Cash paymen	it of corporate tax	KRW 1M	1,281,796	1,707,449	1,348,461

• Based on the consolidated financial statements of FY 2023.

Customer sati	sfaction	Unit	2021	2022	2023
Customer	Scope 1	%	100	100	100
satisfaction	Score	Score	79	84	84
survey					

• Refers to the percentage of business divisions that have conducted customer satisfaction surveys. Since 2020, the Customer Value Innovation Team conducts customer satisfaction surveys across all business divisions.

Economic perfor	rmances	Unit	2021	2022	2023
Revenues 1	Total	KRW 1M	41,786,572	50,983,251	55,249,785
	Petrochemicals	KRW 1M	20,175,492	21,151,355	17,208,803
	Advanced Materials 2	KRW 1M	2,390,269	2,538,394	2,441,790
	Life Sciences	KRW 1M	690,346	849,289	1,128,075
	LG Energy Solution	KRW 1M	17,803,863	25,586,365	33,667,228
	Common and others	KRW 1M	726,602	857,848	803,889
Revenue excludi	ng LG Energy Solution,	KRW 1M	23,256,107	24,539,038	20,778,668
and Common an	nd others 🛭				
R&D expenses	Total	KRW 1M	710,071	869,634	1,007,779
	Sustainable technology and product 6	KRW 1M	90,250	143,604	178,401

- Based on the consolidated financial statements of FY 2023.
- ② Revenues for 2021 and 2022 have been restated, reflecting discontinued operations.
- Represents simple deductions of revenues of LG Energy Solution and Common and others from the total: Common and others include revenues of FarmHannong. This figure has been used to calculate the intensity of environmental performance data. For details, please refer to the notes to the consolidated financial statements.
- Includes expenses for projects in the areas of bio materials, recycling, and carbon neutrality.

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Topic	Code	Accounting metric	Disclosures
Greenhouse Gas Emissions	RT-CH-110a.1	Gross global Scope 1 emissions, percentage covered under emissions-limiting regulations	5,176,673 tCO ₂ e, 97% (emissions in Korea subject to K-ETS relative to global Scope 1 emissions)
	RT-CH-110a.2	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	p. 22, 47
Air Quality	RT-CH-120a.1	Air emissions of the following pollutants: (1) NOx (excluding N ₂ O), (2) SOx, (3) volatile organic compounds (VOCs), and (4) hazardous air pollutants (HAPs)	(1) 3,150 tons (2) 119 tons (3) 151 tons (4) 105 tons
Energy Management	RT-CH-130a.1	 Total energy consumed, percentage grid electricity, percentage renewable, total self-generated energy • 	(1) 133,424 TJ (2) Korea 32%, overseas 52% (3) Korea 3%, overseas 45% (4) 377 MWh
Water Management	RT-CH-140a.1	(1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress	(1) 73,423,047m³, 5.9% (Percentage of water withdrawn from regions with water stress) (2) 50,879,570m³, 5.5% (Percentage of water consumption from regions with water stress)
	RT-CH-140a.2	Number of incidents of non-compliance associated with water quality permits, standards, and regulations	0
	RT-CH-140a.3	Description of water management risks and discussion of strategies and practices to mitigate those risks	p. 19
Hazardous Waste Management	RT-CH-150a.1	Amount of hazardous waste generated, percentage recycled	(1) 122,994 tons (2) 89% (incl. incineration w/ heat recovery), 47% (excl. incineration w/ heat recovery)
Community Relations	RT-CH-210a.1	Discussion of engagement processes to manage risks and opportunities associated with community interests	p. 78
Workforce Health & Safety	RT-CH- / 320a.1	(1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct employees and (b) contract employees	(1) (a) 0.8344 (b) 0.7816 (2) (a) 0 (b) 0
	RT-CH- 320a.2	Description of efforts to assess, monitor, and reduce exposure of employees and contract workers to long-term (chronic) health risks	p. 63

Product Design RT-CH-410a.1 for Use-phase Efficiency Safety & RT-CH-410b.1 (1) Percentage of products that contain Globally Harmonized System of Classification and Labeling of Chemicals (CHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have undergone a hazard assessment RT-CH-410b.2 Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact of the Legal & RT-CH-410c.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and Social factors affecting the industry RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry RT-CH-540a.1 Process Safety Incidents Count (PSIC), Process Safety Events (PSISR), and Process Safety Incident Severity Rate (PSISR). REsponse RESPONSE RT-CH-540a.2 Number of transport incidents O perational RT-CH-540a.2 Number of transport incidents O perational RT-CH-540a.2 Number of transport incidents O perational RT-CH-540a.2 Number of transport incidents	Topic	Code	Accounting metric	Disclosures
Environmental Stewardship of Classification and Labeling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have undergone a hazard assessment (T-CH-410b.2 Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact (2) develop alternatives with reduced human and/or environmental impact (3) develop alternatives with reduced human and/or environmental impact (4) develop alternatives with reduced human and/or environmental impact (5) e8-69, We identify product toxicity as one of the Sustainable Value criteria used to determine the sustainability contribution of products and technologies, and we are introducing a process to consider toxicity from the product design stage. RT-CH-410c.1 Percentage of products by revenue that contain genetically modified organisms (GMOs) Management of the Legal & RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry Regulatory proposals that address environmental and social factors affecting the industry Me participate in policy proposals through our local public affairs networks at home and overseas and continuously monitor new legislation and regulations that may affect our global business. We also participate in the activities of industry associations that represent our business areas and collaborate with various stakeholders by engaging in professional networking activities like external seminars, forums, and conferences. We secure incentives related to major investments and conduct policy support activities. Process Safety Total Incident Rate (PSIR), and Process Safety Incident Severity Rate (PSER): 0 Process Safety Event Rate (PSER): 0	for Use-phase	nRT-CH-410a.1		
(1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact (2) develop alternatives with reduced human and/or environmental impact (2) p. 68-69, We identify product toxicity as one of the Sustainable Value criteria used to determine the sustainability contribution of products and technologies, and we are introducing a process to consider toxicity from the product design stage. (Because of Products by revenue that contain genetically modified organisms (GMOs) Management of the Legal & RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry Environment social factors affecting the industry Me participate in policy proposals through our local public affairs networks at home and overseas and continuously monitor new legislation and regulations that may affect our global business. We also participate in the activities of industry associations that represent our business areas and collaborate with various stakeholders by engaging in professional networking activities like external seminars, forums, and conferences. We secure incentives related to major investments and conduct policy support activities. Operational Safety, Emergency Prepared (2) p. 68-69, We identify product toxicity as one of the Sustainable Value criteria used to determine the sustainability contribution of products and technologies, and we are introducing a process and technologies, and we are introducing a process to consider toxicity from the product design stage. N/A We participate in policy proposals through our local public affairs networks at home and overseas and continuously monitor new legislation and regulations that may affect our global business. We also participate in the activities of industry associations that represent our business areas and collaborate with various stakeholders by engaging in professional networking activities of industry associations. O	Environmental Stewardship of		Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have	
Modified Organisms (GMOs) Management of the Legal & RT-CH-530a.1 Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry Environment Social factors affecting the industry Social factors and continuously monitor new legislation and regulations and regulations that represent our business areas and confluences with various stakeholders by engaging in professional networking activities like external seminary, forums, and conferences. We secure incentives related to major investments and conduct policy support activities. Operational Social factors affecting the indust		RT-CH-410b.2	(1) manage chemicals of concern and(2) develop alternatives with reduced	(2) p. 68-69, We identify product toxicity as one of the Sustainable Value criteria used to determine the sustainability contribution of products and technologies, and we are introducing a process to consider toxicity from the
of the Legal & to government regulations and/or policy proposals that address environmental and social factors affecting the industry through our local public affairs networks at home and overseas and continuously monitor new legislation and regulations that may affect our global business. We also participate in the activities of industry associations that represent our business areas and collaborate with various stakeholders by engaging in professional networking activities like external seminars, forums, and conferences. We secure incentives related to major investments and conduct policy support activities. Operational RT-CH-540a.1 Process Safety Incidents Count (PSIC), Process Safety Total Incident Rate (PSTIR), Emergency and Process Safety Incident Severity Rate (PSISR) Process Safety Event Rate (PSER): 0	Modified	RT-CH-410c.1	contain genetically modified organisms	N/A
Safety, Process Safety Total Incident Rate (PSTIR), (PSE): 0 Emergency and Process Safety Incident Severity Rate Process Safety Event Rate (PSER): 0 Preparedness (PSISR)	of the Legal & Regulatory	RT-CH-530a.1	to government regulations and/or policy proposals that address environmental and	through our local public affairs networks at home and overseas and continuously monitor new legislation and regulations that may affect our global business. We also participate in the activities of industry associations that represent our business areas and collaborate with various stakeholders by engaging in professional networking activities like external seminars, forums, and conferences. We secure incentives related to major investments and
& Response RT-CH-540a.2 Number of transport incidents 0	Safety, Emergency	RT-CH-540a.1	Process Safety Total Incident Rate (PSTIR), and Process Safety Incident Severity Rate	(PSE): 0
	& Response	RT-CH-540a.2	Number of transport incidents	0

[•] LG Chem was the first Korean chemicals company to declare 2030 Carbon-neutral Growth and 2050 Net-Zero goal, and aims to maintain greenhouse gas emissions in 2030 in line with 2019 emissions. Accordingly, the total amount of self-generated energy was calculated including only the energy generated by facilities installed in or after 2020. Based on this new calculation method, the total amount of self-generated energy in 2022 (in last year's report) is revised to 377 MWh, the same as in 2023.

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Recommendati	ions	Location
Governance	a) Describe the board's oversight of climate-related risks and opportunities.	p. 21, 35
	b) Describe management's role in assessing and managing climate-related risks and opportunities.	p. 37
Strategy	a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	p. 19
	 b) Describe the impact of climaterelated risks and opportunities on the organization's businesses, strategy, and financial planning. 	p. 19-20, 47
	c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	p. 19, 47
Risk Management	 a) Describe the organization's processes for identifying and assessing climate- related risks. 	p. 37-38, 47
	b) Describe the organization's processes for managing climate-related risks.	p. 47-49, 54
	c) Describe how processes for identifying, assessing, and managing climate- related risks are integrated into the organization's overall risk management.	p. 37-38
Metrics and Targets	a) Disclose the metrics used by the organization to assess climaterelated risks and opportunities in line with its strategy and risk management process.	p. 18
	b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.	p. 82
	c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	p. 22



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ASSURANCE STATEMENT

LRQA INDEPENDENT ASSURANCE STATEMENT

Relating to LG Chem, Ltd.'s Sustainability Report for the calendar year 2023

This Assurance Statement has been prepared for LG Chem, Ltd. in accordance with our contract but is intended for the readers of this Report.



Terms of engagement

LRQA was commissioned by LG Chem, Ltd. (LG Chem) to provide independent assurance on its 'LG Chem Sustainability Report 2023' ("the report") against LG Chem's data management procedure to a limited level of assurance and materiality of professional judgement using ISAE 3000 and ISAE 3410.

Our assurance engagement covered evaluating the accuracy and reliability of ESG performance data and information on CHAPTER 3 PERFORMANCE DATA of the report relating to LG Chem's operations and activities at domestic and overseas sites from 1 January 2023 to 31 December 2023.

Our assurance engagement excluded the data and information of LG Chem's suppliers, contractors and any third parties mentioned in the report.

LRQA's responsibility is only to LG Chem. LRQA disclaims any liability or responsibility to others as explained in the end footnote. LG Chem's responsibility is for collecting, aggregating, analysing and presenting all the data and information within the report and for maintaining effective internal controls over the systems from which the report is derived. Ultimately, the report has been approved by, and remains the responsibility of LG Chem.

LRQA's Opinion

Based on LRQA's approach nothing has come to our attention that would cause us to believe that LG Chem has not, in all material respects, disclosed accurate and reliable performance data and information as all errors identified during the assurance engagement were corrected.

The opinion expressed is formed on the basis of a limited level of assurance and at the materiality of the professional judgement of the verifier.

Note: The extent of evidence-gathering for a limited assurance engagement is less than for a reasonable assurance engagement. Limited assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

LRQA's apprvoach

LRQA's assurance engagements are carried out in accordance with our verification procedure. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:

Auditing LG Chem's data management systems to confirm that there were no significant
errors, omissions or mis-statements in the report. We did this by reviewing the
effectiveness of data handling procedures, instructions and systems, including those for
internal verification. We also spoke with those key people responsible for compiling the
data and drafting the report.

- Checking whether direct (Scope 1) and indirect (Scope 2) greenhouse gas (GHG)
 emissions, and energy consumptions in domestic sites were transposed correctly from the
 GHG inventory which was verified by the third-party assurance provider.
- Verifying other indirect GHG emissions (Scope 3) using GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard.
- Checking whether financial data were transposed correctly from the financial statements.
- Reviewing additional evidence made available by LG Chem at its head office in Seoul.

LRQA's standards, competence and independence

LRQA implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition and ISO/IEC 17021 Conformity assessment – Requirements for bodies providing audit and certification of management systems that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants.

LRQA ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

LRQA is LG Chem's certification body for ISO 9001, ISO 14001, ISO 37001 and ISO 37301. We also provide LG Chem with a range of training services related to management systems. The verification and certification assessments, together with the training, are the only work undertaken by LRQA for LG Chem and as such does not compromise our independence or impartiality.

Tae-Kyoung Kim LRQA Lead Verifier On behalf of LRQA

2nd Floor, T Tower, 30, Sowol-ro 2-gil, Jung-gu, Seoul, Republic of Korea

LRQA reference: SEO00000269

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The English version of this Assurance Statement is the only valid version. LRQA assumes no responsibility for versions translated into other languages.

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Dated: 16 June 2024