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6.1

ESG Data Sheet

6.1.1 TCC Key Indicators — Governance

2024 TCC Tax Information Unit: NT\$1,000

Jurisdiction	Taiwan	Mainland China (Hong Kong included)	South Europe	Türkiye	United States	Netherlands	Africa	Others	Total
Operating Revenue	66,762,889	40,639,659	27,200,539	41,967,348	1,055,650	6,114	3,876,915	6,774,607	188,283,721
Income Tax Accrued	2,072,918	439,016	1,568,094	465,107	6,874	-	62,219	148,546	4,762,774
Income Tax Paid	3,944,262	211,809	1,668,929	1,445,205	174,898	60,622	64,894	24,537	7,595,156
Cost-to-income Ratio	51.93%	2.79%	21.98%	19.03%	2.30%	0.80%	0.85%	0.32%	100%
Primary Activities	Cement mar	ufacturing and	Investment holding,	Manufacturing	Renewable energy	Investment	Cement	Investment holding,	
	distribution,	logistics transportation,	renewable energy	of Cement,	and energy storage	holding and	Grinding and	manufacturing and	
	manufacturing and distribution of		and energy storage	Clinker and	system construc-	electric vehicle	Manufacturing.	sales of cement	
	slag powder, sand and gravel		system construction,	Concrete.	tion, electric vehicle	charging		and ready-mixed	
	screening an	d ready-mixed concrete	renewable energy		charging equipment.	equipment.		concrete, renew-	
	sales, waste	removal and disposal,	and charging					able energy and	
	resource rec	ycling technology	business, electric					charging business,	
	development	t, etc.	vehicle charging					battery research,	
			equipment.					development and	
								sales, shipping	
								transportation, and	
								other activities.	
Effective Tax Rate				31.55%					
Cash Tax Rate				33.26%					

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Note 1: The data in the table above has not been adjusted to offset transactions with related parties that should be included in the consolidated entities.

Note 2: For the number of employee, please refer to Section CH6.1 ESG Data Sheet - 2024 Employee Diversity Composition.

Inclusion

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Financial Performance for the Past Three Years Unit: NT\$ for EPS & DPS; NT\$1,000 for the remainders

Туре	Items	2022	2023	2024
Economic Value Generated	Operating Revenue	113,929,706	109,314,335	154,606,511
	Operating Income (Loss)	1,162,138	10,030,160	17,126,617
	Non-operating Income and Expenses	5,483,959	4,326,671	5,706,142
Economic Value Distributed	Operating Costs	103,794,557	88,780,566	121,878,486
	EPS	0.74	1.06	1.45
	DPS	0.5	1	1
	Cash Dividend per Share	0.5	1	1
	Stock Dividend per Share	0	0	0
	Income Tax	2,489,012	4,352,218	7,203,262
	Employee Wages and Benefits	9,769,560	10,606,016	18,140,124
	Community Investments	276,550	356,825	466,015
Economic Value Retained	Retained Earnings	66,527,594	70,576,781	72,771,952

Appendix

Table of Significant Environmental Law/Regulation Violations in 4 Years

Items	2021	2022	2023	2024
Violations of Legal Obligations/Regulations	1	1	0	6
Amount of Fines as the Result of Significant Penalty Cases(Unit: NT\$1,000.) Above	434	425	0	20,610
Accrued Year-end Penalty Amount (Unit: NT\$1,000.)	0	0	0	0

Note 1: A major penalty event is defined as any single penalty with an amount exceeding USD 10,000.

Contributions & Other Spending in 4 Years Unit: NT\$

Total Invested Amount	2021	2022	2023	2024
Lobbying, Interest Representation or Similar	0	0	0	0
Local, Regional or National Political Campaigns / Organizations / Candidates	0	800,000	700,000	10,000
Trade Associations or Tax-exempt Groups (e.g. Think Tanks)	57,338,014	54,230,375	45,175,671	55,945,099
Other (e.g. Spending Related to Ballot Measures or Referendums)	0	0	0	0
Total	57,338,014	55,030,375	45,875,671	55,955,099
Data Coverage	100%	100%	100%	100%

Note 1: The scope expanded in 2024 due to the merger with the European subsidiary, resulting in an increase in public participation expenses compared to the previous three years.

Table of Supply Chain Procurement Amount in 2024 Unit: NT\$

Six Major Categories	Taiwan and Mainland China			
	Procurement Amount (NT\$)	Procurement Amount Percentage (%)		
Raw Materials	25,152,909,759	69.53%		
Outsourcing & Subcontracting	442,441,229	1.22%		
Equipment & Parts	5,710,769,642	15.79%		
Transport	2,159,220,717	5.97%		
Construction	2,424,030,509	6.70%		
Explosives	283,842,438	0.78%		
Total	36,173,214,294	100.00%		

Note 1: The scope covers cement business in Taiwan and Mainland China

Number of Significant Suppliers and Procurement Share in 2024

Items	Taiwan and Mainland China
Total number of Tier-1 suppliers	2,644
Total number and Share of significant suppliers in Tier-1	251 9.49%
Share of total spend on significant suppliers in Tier-1	81.87%
Total number of significant suppliers in non Tier-1	45
Total number of significant suppliers	296

Note 1: The scope covers cement business in Taiwan and Mainland China

Supplier Assessment Performance and Goals for 2024

Supplier Assessment	FY 2024	Target for FY 2024
Total number of suppliers assessed (via desk assessments/on-site assessments)	275	100%
Results		
Number of suppliers assessed with substantial actual/potential negative impacts	14	
Share of suppliers with agreed corrective action/improvement plan	100%	
Number of suppliers that were terminated	2	
Supplier corrective plan performance and targets		
Total number of suppliers with substantial actual/potential negative impacts expected to be supported in corrective action plan implementation	14	100%
Total number of suppliers supported in corrective action plan implementation	12	
Performance and goals of suppliers capacity building programs		
Total number of suppliers in capacity building programs	262	183

Note 1: The scope covers cement business in Taiwan and Mainland China

Mean Salary and Median Salary of Full-Time, Non-Managerial Employees and Their Historical Differences Unit: NT\$1,000

Items	2023	2024	Difference
"Mean Salary" of Full-Time, Non-Managerial Employees	992	1,003	11
"Median Salary" of Full-Time, Non-Managerial Employees	870	877	7

Note 1: This table discloses salary information for Taiwan based on the "Instructions for Reporting Salary Information of Full-Time Employees Not Holding Supervisory Positions" issued by the Taiwan Stock Exchange.

Nature

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

6.1.2 TCC Key Indicators — Construction Materials TCC Key Indicators — Environmental

GHG Emissions in 4 Years Unit: tCO2e

Items		2021	2022	2023	2024
Scope 1	Taiwan	4,798,945	4,314,312	3,463,663	3,311,817
	Mainland China	25,867,678	20,715,305	17,418,591	20,300,454
	Subtotal	30,666,623	25,029,617	20,882,254	23,612,270
	CIMPOR & OYAK CEMENT	-	-	-	9,183,229
	Total	30,666,623	25,029,617	20,882,254	32,795,500
Scope 2 (Location-based method)	Taiwan	220,392	218,480	195,702	208,671
	Mainland China	1,094,397	846,574	656,627	698,270
	Subtotal	1,314,789	1,065,054	852,329	906,941
	CIMPOR & OYAK CEMENT	-	-	-	482,671
	Total	1,314,789	1,065,054	852,329	1,389,612
Scope 2 (market-based method)	Taiwan	220,392	218,480	195,702	208,631
	Mainland China	1,094,397	846,574	656,627	682,879
	Subtotal	1,314,789	1,065,054	852,329	891,510
	CIMPOR & OYAK CEMENT	-	-	-	537,745
	Total	1,314,789	1,065,054	852,329	1,429,255
Scope 1+Scope 2 (market-based method) Total	Taiwan	5,019,337	4,532,792	3,659,365	3,520,448
	Mainland China	26,962,075	21,561,879	18,075,218	20,983,333
	Subtotal	31,981,412	26,094,671	21,734,583	24,503,781
	CIMPOR & OYAK CEMENT	-	-	-	9,720,974
	Total	31,981,412	26,094,671	21,734,583	34,224,755
Scope 3	Taiwan	28,761	17,428	6,277,977	6,473,285
	Mainland China	-	-	-	963,241
	Subtotal	28,761	17,428	6,277,977	7,436,526
	CIMPOR & OYAK CEMENT	-	-	-	1,867,000
	Total	28,761	17,428	6,277,977	9,303,526

Note 1: The newly disclosed scope in 2023 includes Ho Sheng Mining Co., Ltd. The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enterprise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR, OYAK CEMENT, and the European Operations Headquarters. Note 2: CIMPOR and OYAK CEMENT were officially included in the Company's consolidated financial statements starting from March 2024. Therefore, the GHG emissions presented above only account for the period from March to December 2024. Note 3: The GHG emissions were inventoried in terms of operational control. The formula used is emissions = activity data * emissions factor (EF) * global warming potential (GWP).

Note 4: The scope 3 emissions cover all 15 categories defined by the GHG Protocol.

Note 5: To comply with the requirements of the Financial Supervisory Commission, this table adopts the greenhouse gas GWP values from IPCC AR6 for calculation.

Appendix

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Total Emissions of Various Greenhouse Gases for Scope 1 in Two Years Unit: tCO2e

Items		2023	2024
CO ₂	Taiwan	3,451,687.86	3,311,669.45
	Mainland China	22,786,777.11	20,316,085.00
	Total	26,238,464.97	23,627,754.45
CH ₄	Taiwan	1,436.22	1,946.25
	Mainland China	849.88	693.96
	Total	2,286.10	2,640.21
N ₂ O	Taiwan	6,086.47	6,555.26
	Mainland China	597.49	377.72
	Total	6,683.96	6,932.97
HFCs	Taiwan	406.82	630.87
	Mainland China	7,380.32	1,421.41
	Total	7,787.14	2,052.28
PFCs	Taiwan	-	-
	Mainland China	-	
	Total	-	-
SF ₆	Taiwan	-	-
	Mainland China	395.14	314.99
	Total	395.14	314.99
NF3	Taiwan	-	-
	Mainland China	-	-
	Total	-	-

Note 1: The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enterprise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited.

Note 2: To comply with the requirements of the competent authority, the Ministry of Environment, this table adopts the greenhouse gas GWP values from IPCC AR5 for calculation.

Energy Use in 4 Years

Energy Usage Raw Consumption		2021	2022	2023	2024
Coal (thousand metric ton)	Taiwan	757	703	499	464
	Mainland China	4,446	3,369	2,822	2,321
	Total	5,203	4,072	3,321	2,785
Diesel (KL)	Taiwan	1,435	1,776	1,473	4,786
	Mainland China	16,991	13,239	12,143	11,680
	Subtotal	18,426	15,015	13,616	16,467
	CIMPOR & OYAK CEMENT	-	-	-	27,132
	Total	18,426	15,015	13,616	43,598
Gasoline (KL)	Taiwan	154	195	187	694
	Mainland China	340	252	262	301
	Subtotal	494	447	449	995
	CIMPOR & OYAK CEMENT	-	-	-	1,181
	Total	494	447	449	2,176
Purchased Electricity (GWh)	Taiwan	456	445	800	425
	Mainland China	2,272	1,601	1,361	1,972
	Subtotal	2,728	2,046	2,161	2,396
	CIMPOR & OYAK CEMENT	-	-	-	1,901
	Total	2,728	2,046	2,161	4,297
Power Generation by Waste Heat Recovery (GWh)	Taiwan	138	108	64	79
	Mainland China	1,034	811	738	858
	Subtotal	1,172	919	802	937
	CIMPOR & OYAK CEMENT	-	-	-	84
	Total	1,172	919	802	1,021
Natural Gas (m³)	Taiwan	3,750	1,723	1,742	9,541
	Mainland China	-	-	-	0
	Total	3,750	1,723	1,742	9,541

Energy Use in 4 Years

Energy Usage — Raw Consumption		2021	2022	2023	2024
Alternative Fuel (GJ)	Taiwan	-	668,807	1,322,967	1,724,940
	Mainland China	1,141,467	5,667,469	8,539,446	13,131,664
	Subtotal	1,141,467	6,336,276	9,862,413	14,856,604
	CIMPOR & OYAK CEMENT	-	-	-	10,423,490
	Total	1,141,467	6,336,276	9,862,413	25,280,094
Renewable Energy (kWh)	Taiwan	272,778	307,778	2,803,611	5,836,025
	Mainland China	-	889,444	14,029,722	63,755,710
	Subtotal	272,778	1,197,222	16,833,333	69,591,736
	CIMPOR & OYAK CEMENT	-	-	-	185,808,077
	Total	272,778	1,197,222	16,833,333	255,399,812
Energy Usage — In terms of Gigajoule (GJ)				
Coal	Taiwan	17,632,953	16,355,419	11,577,410	10,806,676
	Mainland China	102,356,312	77,566,859	64,978,651	53,561,704
	Total	119,989,265	93,922,278	76,556,061	64,368,380
Diesel	Taiwan	50,489	62,451	51,753	168,288
	Mainland China	597,444	465,515	426,977	410,714
	Subtotal	647,933	527,966	478,730	579,002
	CIMPOR & OYAK CEMENT	-	-	-	954,021
	Total	647,933	527,966	478,730	1,533,023
Gasoline	Taiwan	5,097	6,366	6,128	22,637
	Mainland China	11,115	8,228	8,575	9,837
	Subtotal	16,212	14,594	14,703	32,474
	CIMPOR & OYAK CEMENT	-	-	-	38,576
	Total	16,212	14,594	14,703	71,050
Purchased Electricity	Taiwan	1,640,996	1,602,000	1,490,608	1,528,627
	Mainland China	8,179,002	5,763,600	4,899,412	7,097,867
	Subtotal	9,819,998	7,365,600	6,390,020	8,626,494
	CIMPOR & OYAK CEMENT	-	-	-	6,843,536
	Total	9,819,998	7,365,600	6,390,020	15,470,030

Nature

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Energy Use in 4 Years

Energy Usage — In terms of Gigajoule (GJ)		2021	2022	2023	2024
Power Generation by Waste Heat Recovery	Taiwan	497,725	388,800	228,780	286,155
	Mainland China	3,723,552	2,919,600	2,565,800	3,088,559
	Subtotal	4,221,277	3,308,400	2,794,580	3,374,715
	CIMPOR & OYAK CEMENT	-	-	-	301,356
	Total	4,221,277	3,308,400	2,794,580	3,676,071
Natural Gas	Taiwan	139	58	58	320
	Mainland China	-	-	-	0
	Total	139	58	58	320
Alternative Fuel	Taiwan	-	668,807	1,322,967	1,724,940
	Mainland China	1,141,467	5,667,469	8,539,446	13,131,664
	Subtotal	1,141,467	6,336,276	9,862,413	14,856,604
	CIMPOR & OYAK CEMENT	-	-	-	10,423,490
	Total	1,141,467	6,336,276	9,862,413	25,280,094
Renewable Energy	Taiwan	982	1,108	10,093	21,010
	Mainland China	-	3,202	50,507	229,521
	Subtotal	982	4,310	60,600	250,530
	CIMPOR & OYAK CEMENT	-	-	-	668,909
	Total	982	4,310	60,600	919,439

Note 1: The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enterprise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR (not yet included the cement plant in Cameroon) and OYAK CEMENT.

Note 2: The coal calorific values for cement plants in Taiwan are converted based on each plant's specific settings. The conversion factors are as follows: Su'ao Plant – 5,532.69 kcal/kg; Hoping Plant – 5,570.14 kcal/kg; other cement plants in Taiwan – 5,512.66 kcal/kg. Conversion factors for other fuels are: diesel – 8,400 kcal/l, gasoline – 7,800 kcal/l, electricity – 3,600 GJ per million kWh, and natural gas – 8,000 kcal/m³. For Mainland China, CIMPOR, and OYAK CEMENT, calorific values are calculated in accordance with local practices and regulations.

Note 3: Energy consumption data is based on reports submitted to the Energy Administration.

Note 4: In light of the schedule, information on coal and natural gas usage by CIMPOR and OYAK CEMENT will be disclosed in the ESG section of TCC's official website.

Overview Governance Decarbonization Energy Transition Nature Inclusion Appendix

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

2024 Energy Conservation Projects

Operation Sites	Energy Conservation Project	Cumulative Period	Energy Saved	Base Year
Hoping Plant	Compressed air system intelligent management optimization performance management	2023/06-2024/05	Electricity savings of 1,410,775 kWh	
	system (ESCO project)			
	2K clinker cooler renovation and upgrade project	2023/08-2024/07	Electricity savings of 1,227,332 kWh	compared
	1K clinker cooler renovation and upgrade project	2024/04-2025/03	Electricity savings of 2,540,601 kWh	before and afterthe
	Plant-wide electrical room water-cooled packaged air conditioner replacement and	2024/12-2025/11	Electricity savings of 29,215 kWh	implementation
	renewal			of the plan
Suao Plant	#6K preheater dust cleaning backup air compressor replacement and renewal - 1 unit	2024/06-2024/12	Electricity savings of 103,395 kWh	
	Cooler air blast tank compressor replacement and renewal - 1 unit	2024/12-2024/12	Electricity savings of 14,770 kWh	
Taipei Plant	Installation of automatic start-stop control for material receiving conveyor belt	2024/08-2024/12	Electricity savings of 4,978 kWh	2024
	Office lighting power improvement	2024/09-2024/12	Electricity savings of 216 kWh	2024
Tucheng Plant	Replacement of energy-saving lighting fixtures (sensor lights and LED)	2024/01-2024/12	Electricity savings of 802 kWh	2023
Bade Plant	Water dispenser energy saving	2024/01-2024/12	Electricity savings of 10.62 kWh	2023
Taoyuan Second Branch	Water dispenser energy saving	2024/01-2024/12	Electricity savings of 840 kWh	2023
Kaohsiung Plant	Water dispenser energy saving	2024/02-2024/12	Electricity savings of 4,020 kWh	2024
Taichung Plant	Air compressor replacement	2024/01-2024/12	Electricity savings of 8,229 kWh	2023
Yingde Plant	Yingde TCC 1K Clinker Cooler Energy-Saving Technical Upgrade Project	2024/03-2025/03	Savings of 6,282 metric tons of standard coal	2023
	Yingde TCC #5, 9C Cement Production Line Green Manufacturing Technology Upgrade	2022/10-2024/12	Savings of 979 metric tons of standard coal	2022
	Project			
Guigang	#7C Mill Dispersion Machine Return Material Added L-Separator	2024/1-2024/12	Electricity savings of 428,301 kWh	2023
	#3C Mill Dispersion Machine Return Material Added L-Separator	2024/1-2024/12	Electricity savings of 107,237 kWh	2023
	Longzushan Corridor Photovoltaic Project	2024/6-2024/12	Electricity savings of 1,202,610 kWh	2023
	High Energy Consumption Motor Replacement	2024/1-2024/12	Electricity savings of 565,044 kWh	2023
	#8C Replace Diamond Hardfacing Roll, Increase Roll Width from 800mm to 900mm	2024/6-2024/12	Electricity savings of 563,500 kWh	2023
	(Including Roll Sleeve Repair)			
	Waste Heat Power Generation TG1 Main Circulating Water Pump B Frequency Conversion	2024/7-2024/12	Electricity savings of 163,392 kWh	2024
Jurong	Cement Mill Energy-Saving Technical Modification	Already put into	Electricity savings of 16,380,000 kWh/year	2020
		operation in June		
		2024		
Guangan	Modification of Coal Feeding Magnetic Levitation Fan in Coal Mill System	2024/05-2024/12	Electricity savings of 22,065 kWh	2024/4/1
	Cement Mill A System Fan Modification	2024/06-2024/12	Electricity savings of 197,428 kWh	2023/11/1

2024 Energy Conservation Projects

Operation Sites	Energy Conservation Project	Cumulative Period	Energy Saved	Base Year
Anshun	Replacement of Louver Valves in Kiln Tail Bag Filter at Clinker Plant	2024/06-2024/12	Electricity savings of 557,465 kWh/ton	2024
	Replacement of Mill Grate Plates at Cement Plant	2024/01-2024/12	Electricity savings of 53,196 kWh/ton	2024
Kaili	Replacement of AQC Heat Exchange Tubes on Line 2	-	Increased power generation by 1,332,100 kWh	2024 H1
	Deactivation of Line 1 and 2 Transformers (During Kiln Shutdown Period)	-	Electricity savings of 257,083 kWh	2023
Lungshan	Raw Mill System Fan Frequency Conversion Renovation Project	-	Electricity savings of 3,652,500 kWh/year	2024
	Three Kilns Using RDF Biomass Alternative Fuel	2026/01-2026/12	Coal savings of 44,900 metric tons/year	2024-2025
	Yingde Lungshan Company 11.8MWp Distributed Photovoltaic Power Generation Project	2026/01-2026/12	Electricity savings of 12,000,000 kWh/year	2024
Tsing Yi Plant	Compressed Air Delivery and Replacement Project for Air Compressors		Electricity savings of 22,500 kWh/year	2024
	Electric Official Vehicle Procurement Project		Diesel savings of 200 liters	2024
Total Energy Savings Co	onverted to GJ 1,357,933 GJ			
Capital Investment	NT\$ 1,994,543,000			
Operating Expenses	NT\$ 262,996,000			
Costs Saved	NT\$ 225,299,000			

Air Pollutant Emissions in 4 Years Unit: metric ton

Items	Unit	Site	2021	2022	2023	2024
NOx	metric ton	Taiwan	6,473	5,427	4,923	4,481
		Mainland China	9,908	8,207	5,053	4,740
		Subtotal	16,381	13,634	9,976	9,221
		CIMPOR & OYAK CEMENT	-	-	-	17,949
		Total	16,381	13,634	9,976	27,170
SOx	metric ton	Taiwan	113	65	97	58
		Mainland China	997	1,096	962	1,057
		Subtotal	1,110	1,161	1,059	1,115
		CIMPOR & OYAK CEMENT	-	-	-	3,354
		Total	1,110	1,161	1,059	4,469

Air Pollutant Emissions in 4 Years Unit: metric ton

Items	Unit	Site	2021	2022	2023	2024
Particulate Matter	metric ton	Taiwan	214	158	168	182
		Mainland China	569	317	402	466
		Subtotal	783	475	570	648
		CIMPOR & OYAK CEMENT	-	-	-	1,170
		Total	783	475	570	1,818
VOC/THC	metric ton	Taiwan	0.0042	0.0043	0.0042	0.0043
		Mainland China	-	-	-	0.0113
		Total	0.0042	0.0043	0.0042	0.0157
PCDD/F	g I-TEQ	Taiwan	-	0.7576	0.0299	0.0505
		Mainland China	-	-	-	0.00000024
		Total	-	0.7576	0.0299	0.0505
Mercury Emissions (Hg)	metric ton	Taiwan	0.2788	0.2264	0.1669	0.1729
		Mainland China	-	-	-	0.2058
		Subtotal	0.2788	0.2264	0.1669	0.3787
		CIMPOR & OYAK CEMENT	-	-	-	0.0110
		Total	0.2788	0.2264	0.1669	0.3897

Note 1: Emissions are calculated either through direct measurement or based on specific on-site data. The emission factors are sourced from the "Emission Factors, Control Efficiencies, and Other Measurement Regulations for Particulate Pollutants, Lead, Cadmium, Mercury, Arsenic, Hexavalent Chromium, and Dioxins from Stationary Pollution Sources in Public and Private Premises." These include Appendix 1: Emission Factors for Particulate Pollutants from Industrial Processes, and Appendix 3: Emission Factors for Lead, Cadmium, Mercury, Arsenic, Hexavalent Chromium, and Dioxins from Industrial Processes, as well as emission factors, control efficiencies, and other measurement regulations for volatile organic compounds (VOCs), process units (including equipment components), as specified for the declaration of air pollution control fees for stationary pollution sources.

Note 2: The nature of operations at product plants involves cement product mixing and transportation; therefore, no air pollutant emissions are generated.

Note 3: Emissions of mercury, dioxins, and furans (PCDD/Fs) from Mainland China are disclosed starting from 2024.

Note 4: In 2024, additional heavy metal emissions were recorded. For Heavy Metals 1 (HM1, including thallium, cadmium, lead, arsenic, and their compounds), emissions totaled 0.7424 metric tons in Taiwan and Mainland China, and 0.0630 metric tons in CIMPOR and OYAK CEMENT. For Heavy Metals 2 (HM2, including beryllium, chromium, tin, antimony, copper, cobalt, manganese, nickel, vanadium, and their compounds), emissions totaled 1.3715 metric tons in Taiwan and Mainland China, and 1.4050 metric tons in CIMPOR and OYAK CEMENT.

Note 5: In 2024, the newly added disclosure scope included 22.17 metric tons of fluorides, 33.51 metric tons of hydrogen chloride, 3.63 metric tons of hydrogen fluoride, 115.93 metric tons of ammonia, and 16.75 metric tons of fluorides carbon.

Note 6: The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enterprise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR (not yet included the cement plant in Cameroon) and OYAK CEMENT.

Note 7: In light of the project timeline, the data on PCDD/F and VOC/THC for CIMPOR and OYAK CEMENT will be disclosed in the ESG section of TCC's official website.

Water Resource Use in 4 Years Unit: million liters

Items		2021	2022	2023	2024
Water Withdrawal					
Third-Party Water_Municipal Water	Taiwan	322	309	289	282
	Mainland China	405	373	523	539
	Subtotal	727	682	812	821
	CIMPOR & OYAK CEMENT	-	-	-	236
	Total	727	682	812	1,057
Third-Party Water_Industrial Water	Taiwan	1,039	819	722	1,086
	Mainland China	516	456	782	586
	Subtotal	1,555	1,275	1,504	1,672
	CIMPOR & OYAK CEMENT	-	-	-	719
	Total	1,555	1,275	1,504	2,391
Surface Water_Rivers	Taiwan	-	-	-	13
	Mainland China	12,319	8,325	8,177	10,925
	Subtotal	12,319	8,325	8,177	10,938
	CIMPOR & OYAK CEMENT	-	-	-	211
	Total	12,318	8,325	8,177	11,149
Surface Water_Mines	Taiwan	-	-	-	-
	Mainland China	-	-	33	94
	Subtotal	-	-	33	94
	CIMPOR & OYAK CEMENT	-	-	-	-
	Total	-	-	33	94
Surface Water_Lakes	Taiwan	-	-	-	-
	Mainland China	348	135	99	137
	Subtotal	348	135	99	137
	CIMPOR & OYAK CEMENT	-	-	-	5
	Total	348	135	99	142
Surface Water_Rainwater/Spring Water	Taiwan	-	-	694	37
	Mainland China	-	6	448	967
	Subtotal	-	6	1,142	1,004
	CIMPOR & OYAK CEMENT	-	-	-	24
	Total	-	6	1,142	1,028

Nature

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Water Resource Use in 4 Years Unit: million liters

Items		2021	2022	2023	2024
Groundwater	Taiwan	1,102	1,173	1,123	1,460
	Mainland China	520	350	-	263
	Subtotal	1,622	1,523	1,123	1,723
	CIMPOR & OYAK CEMENT	-	-	-	7,507
	Total	1,622	1,523	1,123	9,230
Seawater	Taiwan	0	0	0	0
	Mainland China	0	0	0	0
	Subtotal	0	0	0	0
	CIMPOR & OYAK CEMENT	-	-	-	19,929
	Total	-	-	-	19,929
Discharged Reclaimed Water	Taiwan	102	113	73	89
-	Mainland China	-	-	-	-
	Subtotal	102	113	73	89
	CIMPOR & OYAK CEMENT	-	-	-	9
	Total	102	113	73	98
Total	Taiwan	2,566	2,414	2,900	2,968
	Mainland China	14,109	9,645	10,062	13,510
	Subtotal	16,675	12,059	12,962	16,478
	CIMPOR & OYAK CEMENT	-	-	-	28,641
	Total	16,675	12,059	12,962	45,118
Water discharge					
Surface Water	Taiwan	-	-	-	464
	Mainland China	-	-	-	0
	Subtotal	-	-	-	464
	CIMPOR & OYAK CEMENT	-	-	-	5,308
	Total	-	-	-	5,772
Groundwater	Taiwan	-	-	-	0
	Mainland China	-	-	-	0
	Subtotal	-	-	-	0
	CIMPOR & OYAK CEMENT	-	-	-	77
	Total	-	-	-	77

Water Resource Use in 4 Years Unit: million liters

Items		2021	2022	2023	2024
Seawater	Taiwan	-	-	-	0
	Mainland China	-	-	-	0
	Subtotal	-	-	-	0
	CIMPOR & OYAK CEMENT	-	-	-	19,929
	Total	-	-	-	19,929
Third-Party Water	Taiwan	-	-	-	30
	Mainland China	-	-	-	118
	Subtotal	-	-	-	148
	CIMPOR & OYAK CEMENT	-	-	-	96
	Total	-	-	-	244
Total	Taiwan	-	-	-	494
	Mainland China	-	-	-	118
	Subtotal	-	-	-	612
	CIMPOR & OYAK CEMENT	-	-	-	25,410
	Total	-	-	-	26,022
Water Consumption					
Water Consumption	Taiwan	2,566	2,414	2,900	2,474
	Mainland China	14,109	9,645	10,062	13,391
	Subtotal	16,675	12,059	12,962	15,865
	CIMPOR & OYAK CEMENT	-	-	-	3,231
	Total	16,675	12,059	12,962	19,096

Water Resource Use in 4 Years Unit: million liters

Items		2021	2022	2023	2024
Recycled water					
Process Recycled Water	Taiwan	91,218	88,394	62,485	5,864
	Mainland China	11,773	9,610	9,779	758
	Subtotal	102,991	98,004	72,264	6,622
	CIMPOR & OYAK CEMENT	-	-	-	1,921
	Total	102,991	98,004	72,264	8,543
Other Recycled Water	Taiwan	-	-	54	175
	Mainland China	-	-	-	292
	Subtotal	-	-	54	467
	CIMPOR & OYAK CEMENT	-	-	-	0
	Total	-	-	54	467

Note 1: In Mainland China, water discharged to third parties refers to water provided for use by other organizations.

Note 2: At TCC's Hoping Plant in Taiwan, rainwater intake in 2023 was estimated based on projected runoff from rainfall, while in 2024, rainwater meters were installed to record the actual volume of rainwater collected. As a result, differences in water intake between the two years are due to differences in calculation methods.

Note 3: The water discharge has been disclosed starting from 2024.

Note 4: The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enterprise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR (not yet included the aggregate plant in Cabo Verde) and OYAK CEMENT.

Water Resource Use in Water-Stressed Areas over the Past Three Years Unit: Million Liters

Items		2022	2023	2024
Water Withdrawal	Taiwan	-	-	-
	Mainland China	1,471	1,932	1,718
	Subtotal	1,471	1,932	1,718
	CIMPOR & OYAK CEMENT	-	-	2,383
	Total	1,471	1,932	4,101
Water Discharge	Taiwan	-	-	-
	Mainland China	-	-	-
	Subtotal	-	-	-
	CIMPOR & OYAK CEMENT	-	-	109
	Total	-	-	109
Water Consumption	Taiwan	-	-	-
	Mainland China	1,471	1,932	1,718
	Subtotal	1,471	1,932	1,718
	CIMPOR & OYAK CEMENT	-	-	2,274
	Total	1,471	1,932	3,992
Recycled Water	Taiwan	-	-	-
	Mainland China	-	-	69
	Subtotal	-	-	69
	CIMPOR & OYAK CEMENT	-	-	399
	Total	-	-	467

Note 1: TCC assesses future water availability using the WRI Aqueduct Water Risk Atlas. Some locations in Mainland China, as well as sites operated by CIMPOR and OYAK CEMENT, are situated in areas with high water stress, while the remaining sites are not located in water-stressed regions.

2024 Water Conservation Project

Operation Sites	Water Conservation Project	Cumulative Period	Total Water Saved	Base Year
Hoping Plant	3A shaft tunnel water resource recovery and reuse	2021/05-2024/12	25,430 cubic meters of water saved	-
	1B shaft tunnel water resource recovery and reuse	2023/03-2024/12	6,077 cubic meters of water saved	-
	Rainwater collection facility	2024/05-2024/12	4,538 cubic meters of water saved	-
Suao Plant	RD01 effluent water recovery pipeline expansion project	2024/03-2024/12	36,719 cubic meters of water saved	2024
Taipei Plant	Driver water control system	2024/11-2024/12	496 cubic meters of water saved	2023
Zhongli Plant	Rainwater recycling system	2024/12-2024/12	125 cubic meters of water saved	2023
Tucheng Plant	Rainwater recycling system	2024/01-2024/12	539 cubic meters of water saved	2023
Hsinchu Plant	Rainwater recycling system	2024/03-2024/12	2,661 cubic meters of water saved	2023
Guishan Branch	Rainwater recycling system	2024/11-2024/12	7 cubic meters of water saved	2024
Kaohsiung Plant	Water-saving equipment in administrative building restrooms	2024/08-2024/12	89 cubic meters of water saved	2024
	Rainwater recycling system	2024/01-2024/12	5,106 cubic meters of water saved	2023
Taichung Plant	Rainwater recycling system	2024/05-2024/12	38 cubic meters of water saved	2023
Shengang Plant	Rainwater recycling system	2024/04-2024/12	299 cubic meters of water saved	2023
Jurong Plant	Waste heat power generation wastewater recycling	2024/01-2024/12	81,847cubic meters of water saved	2020
Anshun Plant	Rainwater Recovery	2024/08-2025/01	94,318 cubic meters of water saved	
Total Water Savings			258,289	cubic meters
Capital Investment			N	IT\$ 26,274,000
Operating Expenses				NT\$ 1,207,000
Cost Saved				NT\$ 1,916,000

Waste Treatment in 4 Years Unit: metric ton

Total Waste			2021	2022	2023	2024
Quantity of in-house waste reused	Non-Hazardous Waste	Taiwan and Mainland China	3,881.23	9,673.86	7,811.95	11,181.09
	Hazardous Waste	Taiwan and Mainland China	-	-	-	0

Waste Treatment in 4 Years Unit: metric ton

Total Waste				2021	2022	2023	2024
Outsourced treatment	Off-site	Non-Hazardous Waste	Taiwan and Mainland China	-	-	-	131.24
volume of in-house	Waste landfilled	Hazardous Waste	Taiwan and Mainland China	-	-	-	1.24
waste	Off-site	Non-Hazardous Waste	Taiwan and Mainland China	-	-	-	841.60
	Waste incinerated with	Hazardous Waste	Taiwan and Mainland China	-	-	-	4.54
	energy recovery						
	Off-site	Non-Hazardous Waste	Taiwan and Mainland China	1,091.74	212.71	1,686.68	278.97
	Waste incinerated	Hazardous Waste	Taiwan and Mainland China	-	-	-	49.06
	without energy recovery						
	Off-site	Non-Hazardous Waste	Taiwan and Mainland China	12,751.75	11,352.67	7,710.54	21,939.22
	Waste sent to	Hazardous Waste	Taiwan and Mainland China	-	-	-	502.74
	recycle/reuse						
Total		Non-Hazardous Waste	Taiwan and Mainland China	17,724.72	21,239.24	17,209.17	34,372.11
		Hazardous Waste	Taiwan and Mainland China	-	-	-	557.58

Note 1: The newly disclosed scope in 2024 includes Longshan, Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; Feng Sheng Enter-prise Company, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited.

Note 2: In light of the project timeline, the data on waste treatment for CIMPOR and OYAK CEMENT will be disclosed in the ESG section of TCC's official website.

Raw Material Use in 2024 Unit: metric ton

Category	Item	Taiwan	Item	Mainland China	Item CI	MPOR & OYAK CEMENT
	Us	age Amount		Usage Amount		Usage Amount
Recycled Materials	Alternative Clay	494,130	Desulfurization Gypsum	1,116,458	Steel Slag	355,138
	Coal Ash	269,099	Coal Slag	759,878	Other Combustibles	155,319
	Gypsum	217,485	Coal Gangue	715,858	Waste Concrete and Concrete Slu	udge 88,178
	Construction Waste Soil	163,993	Fly Ash	571,783	Construction Waste	58,612
	Iron Slag	143,250	Steel Slag	457,816	Reduction Slag	41,287
	Bottom Ash	77,176	Construction Waste Soil	279,141	Fly Ash	29,892
	Reduction Slag	29,674	Copper Slag	265,050	Iron Ore Waste	28,327
	Calcium Fluoride Sludge	14,379	Furnace Slag	231,205	Flotation Waste	22,984
	Others	48,847	Iron Tailings	221,931	Bottom Ash and Boiler Dust	22,369
			Others	2,315,283	Others	73,278
	Subtotal	1,458,033	Subtotal	6,934,403	Subtotal	875,384
Non-Renewable Materials	Limestone	5,494,419	Limestone	36,188,402	Limestone/Chalk	9,304,957
	Low-Alkali Sand	202,506	Siltstone	824,743	Limestone	4,473,816
	Silica Sand	35,915	High-Silica Sand	759,773	Clay/Shale/Slate/Kaolin	3,600,773
			Clay	681,515	Cement Composite Materials	1,203,407
			Sandy Shale	308,606	Marlstone	1,169,925
			Waste Rock	282,672	Natural Gypsum	396,067
			Shale	266,513	Volcanic Ash	344,404
			Sulfuric Acid Residue	225,251	Clinker	177,075
			Overburden	206,349	Silica Sand	138,814
			Others	610,867	Others	535,148
	Subtotal	5,732,840	Subtotal	40,354,691	Subtotal	21,344,386
Total Amount of Recycled Materi	als Used (A)					9,267,820
Total Amount of Non-recycled Ma	aterials Used					67,431,917
Total Amount of Materials Used ((B)					76,699,737
Proportion of Recycled Materials	Used (A/B; %)					12.08%

Note 1:The calculation of raw material use in Taiwan covers only cement plants.

Appendix

2024 Consumption of Alternative Raw Materials and Fuels Unit: metric ton

Resource Reused	Alternative Type	Usage Amount
Fly Ash	Alternative Raw	227,432
	Materials	
Construction	Alternative Raw	163,993
Waste Soil	Materials	
Desulfurization	Alternative	217,485
Gypsum	Supplementary	
	Materials	
Wood Chips	Alternative Fuel	84,737
Bottom Ash	Alternative Raw	77,176
	Materials	
Mineral Sludge	Alternative Raw	58,307
	Materials	
Waste Co-Processing	Alternative Fuel	41,421
Coal Ash	Alternative Raw	41,667
	Materials	
Calcium Fluoride	Alternative Raw	14,379
Sludge	Materials	
Reduction Slag	Alternative Raw	29,674
	Materials	
Air-Cooled Slag	Alternative Raw	12,670
	Materials	
SRF	Alternative Fuel	8,187
Furnace Slag Powder	Alternative Raw	8,353
	Materials	

Mainland China		
Resource Reused	Alternative Type	Usage Amount
Desulfurization	Alternative Supplementary	/ 690,269
Gypsum	Materials	
Waste Textiles	Alternative Fuel	566,734
Coal Gangue	Alternative Raw Materials	549,721
Steel Slag	Alternative clinker	508,096
Fly Ash	Alternative Supplementary	/ 477,710
	Materials	
Furnace Slag	Alternative Raw Materials	380,781
Fly Ash	Alternative Raw Materials	368,909
Coal Slag	Alternative Supplementary	/ 304,509
	Materials	
Coal Slag	Alternative Raw Materials	291,609
Construction	Alternative Raw Materials	279,141
Waste Soil		
Steel Slag	Alternative Raw Materials	219,483
Desulfurization	Alternative clinker	196,409
Gypsum		
Coal Slag	Alternative clinker	195,268
White Mud	Alternative Raw Materials	172,163
Silica Slag	Alternative clinker	154,025
Copper Slag	Alternative Raw Materials	150,539
Iron Tailings	Alternative Supplementary	/ 134,523
	Materials	
Desulfurization	Alternative Raw Materials	134,014
Gypsum		
Iron Ore	Alternative Raw Materials	125,803
Beneficiation		
Sludge		

CIMPOR & OYAK CE	MENT	
Resource Reused	Alternative Type	Usage Amount
Refuse Derived	Alternative Fuel	456,191
Fuel/Solid		
Recovered Fuel		
(RDF)		
Cement	Alternative Raw Materials	226,935
Other Waste	Alternative Fuel	127,314
(Biomass)	/ titerriative r der	127,514
Tires	Alternative Fuel	76,037
Farthwork	Alternative Raw Materials	33,396
Lartiwork	Atternative Naw Waterlais	
Fly Ash	Alternative Supplementary	24,741
	Materials	
Olive Pomace and	Alternative Fuel	22.725
Other Plant	Alternative ruei	22,725
Biomass		
Waste Tire Shreds	Alternative Fuel	21,649
Steel Slag	Alternative Raw Materials	20,871
Lime Sludge	Alternative Raw Materials	11,004
Wood Chips	Alternative Fuel	7,660
Concrete	Alternative Raw Materials	6,274
Boiler Ash	Alternative Raw Materials	6,020
Olive Pomace and	Alternative Fuel	5,707
Chunks	Alternative ruei	3,707
Water Treatment	Alternative Raw Materials	5,302
Plant Sludge	, acomative naw iviatorials	5,502
Liquid Waste	Alternative Fuel	5,095
Liquid Waste	/ Itterriative ruer	5,033

2024 Consumption of Alternative Raw Materials and Fuels Unit: metric ton

Taiwan			Mainland China			CIMPOR & OYAK C	CIMPOR & OYAK CEMENT				
Resource Reused	Alternative Type	Usage Amount	Resource Reused	Alternative Type L	Jsage Amount	Resource Reused	Alternative Type	Usage Amount			
Incinerated Recycled	Alternative Raw	5,672	Iron Tailings	Alternative Raw Materials	102,067	Construction and	Alternative Raw Materials	4,603			
Aggregate	Materials		Others	Alternative Fuel/Alternative	1,474,010	Demolition Waste					
Mineral Fines	Alternative Raw	4,474		Raw Material/Alternative		(CDW)					
	Materials			Clinker/Alternative Auxiliary		Hazardous Waste	Alternative Fuel	3,165			
Waste Refractory	Alternative Raw	3,910		Material		(Liquid)					
Materials	Materials					Cementitious	Alternative Raw Materials	2,838			
Desulfurization	Alternative Raw	3,745				Materials					
Inorganic Sludge	Materials					Coal Ash	Alternative Fuel	2,271			
Waste Ceramics	Alternative Raw	2,559				Others	Alternative Fuel/	13,349			
	Materials						Alternative Raw Material				
Others	Alternative	10,808									
	Fuel/Alternative										
	Raw Material										
Subtotal		1,016,649	Subtotal		7,475,785	Subtotal		1,083,148			
Total								9,575,582			

${\sf TCC} \ {\sf Key Indicators} \, {\small --} \, {\sf Social}$

2024 Employee Diversity Composition

Employee Headcount Statistics

Items/By Category						Male	Total				
Employment	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	
Permanent Employee	276	1,282	1,558	390	1,948	1,046	4,821	5,867	3,934	9,801	11,749
Temporary Employee	5	-	5	37	42	12	-	12	205	217	259
Non-guaranteed Hours Employees	-	-	-	-	-	-	-	-	-	-	-
Contract Type											
Full-Time Employees	276	1,282	1,558	425	1,983	1,046	4,821	5,867	4,136	10,003	11,986
Part-Time Employees	5	-	5	2	7	12	-	12	3	15	22
Total	281	1,282	1,563	427	1,990	1,058	4,821	5,879	4,139	10,018	12,008

= 227

Full-time Employee Headcount Statistics

Items/By Category				F	emale			Male	Total		
Age	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	
Under 30	38	84	122	101	223	104	288	392	692	1,084	1,307
30-50	204	1,180	1,384	248	1,632	647	3,496	4,143	2,698	6,841	8,473
Over 50	34	18	52	77	129	295	1,037	1,332	746	2,078	2,207
Education Level											
Doctoral Degree	-	-	-	1	1	5	-	5	3	8	9
Master's Degree	58	9	67	84	151	107	16	123	204	327	478
Bachelor's Degree	190	159	349	222	571	547	383	930	628	1,558	2,129
Associate Degree	26	275	301	-	301	304	804	1,108	-	1,108	1,409
Senior Secondary Education or Below	2	839	841	118	959	83	3,618	3,701	3,297	6,998	7,957
Job Category											
Senior-Level Supervisor	5	3	8	7	15	13	99	112	34	146	161
Mid-Level Supervisor	34	38	72	35	107	96	264	360	151	511	618
Entry-Level Supervisor	32	94	126	44	170	70	685	755	269	1,024	1,194
Professionals	93	270	363	284	647	158	804	962	712	1,674	2,321
Direct Employees	112	877	989	55	1,044	709	2,969	3,678	2,969	6,647	7,691

Number of Workers Who Are Not Employees

Items/By Category				F	emale					Male	Total
Workers Who Are Not Employees	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	Taiwan	Mainland China	Subtotal	CIMPOR & OYAK CEMENT	Total	
	103	218	321	71	392	260	209	469	1,366	1,835	2,227

Note 1: In Taiwan, senior management is defined as department directors and associate general managers or above; middle management refers to managers and deputy managers; first-line supervisors are section chiefs; professionals include engineers, specialists, researchers, and management trainees; direct personnel refer to all other positions, such as batching plant operators, machinery operators, and clerks.

Note 2: In Mainland China, senior management is defined as deputy general manager level or above; middle management refers to mid-level managers; first-line supervisors correspond to job grades 1-3; professionals are at job grades 4-5; and direct personnel are those at job grades 6-10.

Note 3: Non-employee workers include personnel dispatched from external companies, such as cleaning staff, security guards, chefs/kitchen workers, pump operators, and landscaping personnel.

Note 4: Part-time employees include rehired senior workers.

Note 5: As of 2024, the number of employees with disabilities across cross-strait cement operations (including Wanching, Hesheng, Mining Company, Envi-ronmental Technology Company, and Hong Kong Cement) includes 3 female and 35 male employees.

Note 6: The above information is based on the number of employees as of December 31, 2024. The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities.

Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR and OYAK CEMENT.

Employee Nationality Diversity Composition in 2024 Unit: Persons

Items/By Category				Number of	f Emplo	yees in Management Positions		
Ethnicity	Taiwan	Mainland China	Total	Percentage in the Total Workforce	Taiwan	Mainland China	Total	Percentage in the Total Workforce
Asian (Han Chinese + All Ethnic Minorities)	1,250	5,252	6,502	87.6%	243	1,018	1,261	88.3%
Indigenous Peoples	72	851	923	12.4%	2	165	167	11.7%
Total	1,322	6,103	7,425	100%	245	1,183	1,428	100%

Items/By Category			Number of Employees in Management Positions					
Nationali-ty/Region	Taiwan & Mainland China	CIMPOR & OYAK CEMENT	Total	Percentage in the Total Workforce	Taiwan & Mainland China	CIMPOR & OYAK CEMENT	Total	Percentage in the Total Workforce
Taiwan	1,355	-	1,355	11.5%	276	-	336	16.5%
Mainland China	6,050	1	6,051	51.4%	1,145	1	1,146	56.3%
Türkiye	-	3,100	3,100	26.3%	-	321	321	15.8%
Portugal	-	895	895	7.6%	-	-	-	8.0%
Others	20	358	378	3.2%	2,933	163	3,069	3.4%
Total	7,425	4,354	11,779	100%	4,354	1,488	4,839	100%

Note 1: Other countries include Indonesia, Canada, the Philippines, Vietnam, Kenya, Benin, Burkina Faso, the Central African Republic, Cameroon, Ghana, Guinea, Togo, Côte d'Ivoire, Mali, the Democratic Republic of the Congo, the United States, Angola, Argentina, Brazil, the United Kingdom, Cape Verde, Guinea-Bissau, Moldova, Mozambique, Romania, Spain, Ukraine, and Venezuela.

Note 2: Indigenous peoples and ethnic minorities include the Sakizaya, Truku, Amis, Atayal, Puyuma, Saisiyat, Seediq, Rukai, Bunun, Paiwan, Li, Yi, Gelao, Chuanqing, Hui, Bai, Tujia, Mongol, Shui, Ge, Yao, Mulao, She, Bouyei, Zhuang, Miao, Dong, and Manchu, among others.

Note 3: The above information is based on the number of employees as of December 31, 2024. The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities.

Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR and OYAK CEMENT.

New Hires and Departures in 2024

			Taiwan	Ma	inland China		Subtotal	CIMPOR & O'	YAK CEMENT		Total
New Hires		Headcount	Percentage	Headcount	Percentage	Headcount	Percentage	Headcount	Percentage	Headcount	Percentage
Gender	Female	78	5.90%	8	0.13%	86	1.16%	115	2.52%	201	1.68%
	Male	114	8.62%	18	0.29%	132	1.78%	816	17.89%	948	7.91%
Age	Under 30	64	4.84%	9	0.15%	73	0.98%	377	8.27%	450	3.75%
	30-50	125	9.46%	17	0.28%	142	1.91%	492	10.79%	634	5.29%
	Over 50	3	0.23%	0	0.00%	3	0.04%	62	1.36%	65	0.54%
Total		192	14.52%	26	0.43%	218	2.94%	931	20.41%	1,149	9.59%
Departed En	nployees										
Gender	Female	45	3.40%	163	2.67%	208	2.80%	44	0.96%	252	2.10%
	Male	117	8.85%	495	8.11%	612	8.24%	497	10.9%	1,109	9.25%
Age	Under 30	58	4.39%	95	1.56%	153	2.06%	245	5.37%	398	3.32%
	30-50	70	5.30%	466	7.64%	536	7.22%	136	2.98%	672	5.61%
	Over 50	34	2.57%	97	1.59%	131	1.76%	160	3.51%	291	2.43%
Total		162	12.25%	658	10.78%	820	11.04%	541	11.86%	1,361	11.35%
Voluntary De	epartures										
Gender	Female	31	2.34%	79	1.29%	110	1.48%	44	0.96%	154	1.28%
	Male	83	6.28%	343	5.62%	426	5.74%	497	10.9%	923	7.7%
Age	Under 30	42	3.18%	68	1.11%	110	1.48%	245	5.37%	355	2.96%
	30-50	59	4.46%	301	4.93%	360	4.85%	136	2.98%	496	4.14%
	Over 50	13	0.98%	53	0.87%	66	0.89%	160	3.51%	226	1.89%
Total		114	8.62%	422	6.91%	536	7.22%	541	11.86%	1,077	8.99%

New Employee Hiring Statistics for the Last Four Years

Item	2021	2022	2023	2024
Taiwan & Mainland China	145	114	213	218
CIMPOR & OYAK CEMENT	435	467	888	913
Total	580	581	1,101	1,149

Note 1: Voluntary departures exclude retirees

Note 2: The new hire and turnover rates are calculated based on the total number of employees in cement business units (including mining operations) in each region.

Note 3: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities. Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR and OYAK CEMENT.

Internal Job Vacancy Fulfillment Rate in Taiwan and Mainland China in 4 Years

Item	2021	2022	2023	2024
Taiwan & Mainland China	48%	44%	44%	82%

Scope of Employee Engagement Surveys Conducted in 4 Years

Item	2021	2022	2023	2024
Employee Engagement Survey Scores	96.10%	90%	92.96%	87%
Response Rate	96.71%	97.60%	95%	98%

2024 Training Hours and Investment

Items		Taiwan	Mai	nland China		Subtotal	CIMPOR & OY	AK CEMENT	Total Hours	Average Hours
Age	Female	Male	Female	Male	Female	Male	Female	Male		
Under 30	3,097.10	6,415.10	4,727.23	16,443.57	7,824.33	22,858.67	7,516.00	27,787.15	65,986.15	50.49
30-50	5,001.80	26,991.00	44,551.80	162,117.02	49,553.60	189,108.02	9,631.13	91,273.98	339,566.73	40.08
Over 50	860.30	7,132.50	287.62	48,541.77	1,147.92	55,674.27	749.25	15,485.64	73,057.07	33.10
Job Level										
Senior-Level Supervisor	63.40	244.70	17.18	1,588.20	80.58	1,832.90	324.30	767.28	3,005.06	333.90
Mid-Level Supervisor	941.90	4,705.80	1,977.63	8,322.60	2,919.53	13,028.40	782.58	5,805.71	22,536.22	47.15
Entry-Level Supervisor	799.70	3,860.00	3,428.95	23,887.75	4,228.65	27,747.75	2,448.75	16,365.75	50,790.90	23.86
Professionals	4,248.40	9,058.90	13,316.58	29,943.43	17,564.98	39,002.33	12,730.00	31,644.83	100,942.15	71.64
Direct Employees	2,905.80	22,669.20	30,826.40	163,360.37	33,732.20	186,029.57	1,017.75	82,023.20	302,802.72	38.05
Total Hours	8,959.20	40,538.60	49,566.65	227,102.35	58,525.85	267,640.95	17,896.38	134,546.77	478,609.95	-
Average Hours	31.88	38.32	38.66	47.11	37.44	45.52	41.91	32.51	-	39.93
Average Training and Deve	lopment Cost p	er Full-time E	mployee							NT\$ 135,557.71

Note: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, and consolidated entities. Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR and OYAK CEMENT.

Return on Human Capital Investment in 4 Years

	2021	2022	2023	2024
Return on Human Capital	12.7	11.7	10.3	8.7

Note 1: Return on Human Capital Investment = (Operating Revenue - (Operating Expenses - Employee Benefits Expenses)) / Employee Benefits Expenses

Note 2: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities. Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants, 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable Resources Technology Company Limited, CIMPOR and OYAK CEMENT.

Parental Leave Usage in Taiwan for the Past Two Years

Items		2023		2024
	Female	Male	Female	Male
Number of Employees Eligible for Parental Leave in the Year (A)	22	72	6	36
Number of Employees Who Applied for Parental Leave in the Year (B)	4	1	4	2
Expected Number of Employees Returning to Work in the Year (C)	3	3	2	1
Actual Number of Employees Who Returned to Work (D)	1	2	2	1
Number of Employees Still Employed 12 Months After Returning to Work (E)	4	1	0	0
Return-to-Work Rate After Parental Leave (D/C)	33%	67%	100%	100%
One-Year Retention Rate After Returning to Work (E/Previous Year's D)	100%	100%	0%	0%

Note 1: The number of employees eligible for parental leave in the year refers to full-time employees who have worked for six months or more.

Note 2: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities. The scope of the above statistics does not yet include Fong Sheng Industrial.

2024 Occupational Injury Statistics

		Occupational Accider	nt	Fatality	Rate of High-consequence	Total Recordable Injury	Lost Time Injury	Actual
Site	Fatalities	Number of High-consequence	Number of Recordable	Rate	Work-related Injuries	Frequency Rate	Frequency Rate	Working
		Work-related Injuries	Work-related Injuries			(TRIFR)	(LTIFR)	Hours
Work-related Injuries of Employees								
Taiwan	0	0	4	0	0.00	1.18	1.18	3,385,334
Mainland China	0	1	14	0	0.07	1.01	1.01	13,865,459
Subtotal	0	1	18	0	0.06	1.04	1.04	17,250,792
CIMPOR & OYAK CEMENT	0	8	34	0	0.84	3.58	3.58	9,503,042
Total	0	9	52	0	0.34	1.94	1.94	26,753,834
Work-related Injuries of Contractors	3							
Taiwan	1	0	4	0.52	0.00	2.08	1.56	1,919,376
Mainland China	3	0	5	2.28	0.00	3.80	1.52	1,314,128
Subtotal	4	0	9	1.24	0.00	2.78	1.55	3,233,504
CIMPOR & OYAK CEMENT	0	5	27	0.00	0.76	4.09	4.09	6,601,174
Total	4	5	36	0.41	0.51	3.66	3.25	9,834,678

Note 1: Occupational injury data calculations are primarily based on monthly occupational accident statistics reported by each plant. Note 2: The main types of occupational injuries include entanglement, impact, falling, and cuts. Note 3: Fatality Rate = (Number of Fatalities / Total Actual Working Hours) x 1,000,000. Note 4: Rate of High-consequence Work-related Injuries = (Number of High-consequence Work-related Injuries - Number of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Fatalities / Total Actual Working Hours) x 1,000,000. Note 5: Rate of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Fatalities / Total Actual Working Hours) x 1,000,000. Note 5: Rate of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Fatalities / Total Actual Working Hours) x 1,000,000. Note 5: Rate of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Recordable Work-related Injuries - Number of Fatalities / Total Actual Working Hours) x 1,000,000. Note 5: Rate of Recordable Work-related Injuries - Number of Recordable Work-relate

Occupational Injury Statistics in 4 Years

Site			2021			2022			2023			2024
	Number of	Lost Time	Total Recordable	Number of	Lost Time	Total Recordable	Number of	Lost Time	Total Recordable	Number of	Lost Time	Total Recordable
	Fatalities	Injury	Injury Frequency									
		Frequency	Rate									
		Rate (LTIFR)	(TRIFR)									
Employees	0	0.32	0.32	0	1.59	1.59	0	1.70	1.70	0	1.94	1.94
Contractors	0	0	0	1	2.20	2.20	1	1.70	1.70	4	3.25	3.66

Note 1: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities. Newly added in 2024: Huaihua, and Liaoning cement plants; Fuzhou and Liuzhou grinding plants; 123 Environmental Protection Technology Co., Ltd., Beijing TCC Environmental Technology Co., Ltd., TCC (Guangdong) Renewable ResourcesTechnology Company Limited, Feng Sheng Enterprise Company, E.G.C. Cement Corp., Ho Sheng Mining Co., Ltd., Wanching Mining Co., Ltd., TCC Jiuyuan (Guangan) Environmental Technology Co., Ltd., Hangzhou Operations Center, Guangdong–Guangxi Operations Center, TCC Yingde Mining Industrial Company Limited, TCC Guigang Mining Industrial Company Limited, TCC Jiangsu Mining Industrial Company Lim

Total Injury Rate in Taiwan Over the Past Three Years

Site				2022			2023			2024
		Frequency Rate	Severity Rate	Full Spectrum	Frequency Rate	Severity Rate	Full Spectrum	Frequency Rate	Severity Rate	Full Spectrum
		(FR) per Million	(SR) per Million	Injury Rate	(FR) per Million	(SR) per Million	Injury Rate	(FR) per Million	(SR) per Million	Injury Rate
		Working Hours	Working Hours	(FSI)	Working Hours	Working Hours	(FSI)	Working Hours	Working Hours	(FSI)
Taiwan										
Employees		1.65	81	0.36	0.81	25	0.14	0.17	47.7	0.09
Contractors		1.72	14	0.15	1.7	6,810	3.4	0.61	1,855	1.07
Ho Sheng Mini	ing Co., Ltd,									
Employees		0	0	0	0	0	0	0	0	0
Contractors		0	0	0	0	0	0	0	0	0

Note 1: The scope of disclosure covers the Low-carbon Construction Business, including cement plants, RMC plants, grinding plants, and consolidated entities. Newly added in 2024: Feng Sheng Enterprise Company, E.G.C. Cement Corp. and Ho Sheng Mining Co., Ltd

6.1.3 **TCC Key Indicators** — **Energy for Social Transformation** TCC Key Indicators — Environmental

GHG Emissions in 4 Years Unit: tCO2e

Site	Items	2021	2022	2023	2024
Ho-Ping Power Company	Scope 1	7,530,599	7,380,815	7,995,242	6,936,330
	Scope 2	333	750	1	2,787
	Total Scope 1 and Scope 2 Emissions	7,530,932	7,381,565	7,995,243	6,939,117

= 234

Energy Use in 4 Years

Site			2021	2022	2023	2024
Ho-Ping Power Company	Energy Usage Raw Consumption	Coal (thousand metric ton)	3,210	3,162	3,402	2,990
		Diesel (KL)	3,896	7,599	3,697	8,633
		Gasoline (KL)	17	15	8	7
		Purchased Electricity (GWh)	1	2	0	6
		Renewable Energy (kWh)	-	322,501	660,338	808,122
	Energy Usage In terms of Gigajoule (GJ)	Coal	74,838,190	73,735,718	79,333,950	69,716,746
		Diesel	136,996	267,204	130,002	303,557
		Gasoline	546	486	246	224
		Purchased Electricity	2,356	5,451	10	20,312
		Renewable Energy	-	1,161	2,377	2,909
		Total	74,978,088	74,010,020	79,466,585	70,043,748

Air Pollutant Emissions in 4 Years Unit: metric ton

Site	Items	2021	2022	2023	2024
Ho-Ping Power Company	NOx	2,267.25	2,129.32	2,193.51	1,857.43
	SOx	2,945.41	1,993.20	1,945.75	1,866.56
	Particulate Matter	278.21	249.52	183.27	132.21
	VOC/THC	0.31	0.32	0.31	0.33
	PCDD/F	0.0944	0.0687	0.0591	0.0419
	Mercury Emissions (Hg) (Unit: g I-TEQ)	0.0436	0.0485	0.0291	0.0127

Water Resource Use in 4 Years Unit: million liters

Ho-Ping Power Company					
Items	2021	2022	2023	2024	
Water Withdrawal					
Third-Party Water_Municipal Water	29	25	21	29	
Third-Party Water_Industrial Water	1,514	1,533	1,676	1,482	
Surface Water_Rivers	-	-	-	-	
Surface Water_Mines	-	-	-	-	
Surface Water_Lakes	-	-	-	-	
Surface Water_Rainwater/Spring Water	-	-	-	53	
Groundwater	-	-	-	-	
Seawater	1,209,710	1,231,339	1,274,384	1,219,195	
Discharged Reclaimed Water	247	230	194	139	
Total	1,211,500	1,233,127	1,276,275	1,220,898	
Water discharge					
Surface Water	244	217	184	184	
Groundwater	-	-	-	-	
Seawater	1,209,710	1,231,339	1,274,384	1,219,195	
Third-Party Water	-	-	-	-	
Total	1,209,954	1,231,556	1,274,568	1,219,379	
Water Consumption					
Water Consumption	1,546	1,571	1,707	1,519	
Recycled water					
Process Recycled Water	147,510	167,255	141,238	77,465	
Other Recycled Water	99,507	62,921	52,557	61,197	

Note 1: Ho-Ping Power Company is not located in a water-stressed area.

Nature

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Waste Treatment in 4 Years Unit: metric ton

Total Waste	2021	2022	2023	2024
Non-Hazardous Waste	1,385.45	4,260.46	799.88	2,262.02
Hazardous Waste	-	-	-	-
Total	1,385.45	4,260.46	799.88	2,262.02

Total Waste		2021	2022	2023	2024
In-House Waste Reuse Amount		-	-	-	-
Outsourced Waste Disposal Amount	Landfilling	286.60	311.82	40.32	-
	Off-site Incineration (with energy recovery)	-	-	34.58	116.19
	Off-site Incineration (without energy recovery)	-	-	-	-
	Off-site Recycling and Reuse	1,098.85	3,948.64	724.98	2,145.83
Total		1,385.45	4,260.46	799.88	2,262.02

${\sf TCC}\ {\sf Key}\ {\sf Indicators} \, {\small --}\, {\sf Social}$

2024 Employee Diversity Composition

Items/By Category				
		Female	Male	Total
Employment Relationship	Permanent Employee	30	264	294
	Temporary Employee	0	0	0
	Non-guaranteed Hours Employees	0	0	0
Contract Type	Full-Time Employees	30	264	294
	Part-Time Employees	0	0	0
Total		30	264	294

Statistics of Full-time Employees

Items / Breakdown by 1				
		Female	Male	Total
Age	Under 30	8	24	32
	30-50	14	166	180
	Over 50	8	74	82
Education Level	Doctoral Degree	-	-	-
	Master's Degree	4	15	19
	Bachelor's Degree	16	56	72
	Associate Degree	7	106	113
Job Category	Senior Secondary Education or Below	3	87	90
	Senior-Level Supervisor	-	6	6
	Mid-Level Supervisor	-	17	17
	Entry-Level Supervisor	5	25	30
	Professionals	9	86	95
	Direct Employees	16	130	146

Non-Employee Workers

Items / Breakdown by Type	Female	Male	Total
Total Number of Non-Employee Workers	33	18	51

Note 1: Management definitions: Senior managers are Directors and Assistant Vice Presidents (and above), middle managers are Managers and Deputy Managers, entry-level managers are Supervisors, professionals are Engineers, Administrators, Researchers and Management Trainees, direct employees are other positions such as Mixer Operators, Machine Operators, Clerks.

Note 2: Non-employee workers such as personnel stationed by external companies: Cleaning Staff, Security Personnel, Chefs/Kitchen Workers, Pump Operators, Landscaping Staff, Packaging and Shipping Personnel, Long Belt Corridor Workers, Mining Explosives Storage Workers, Central Control Room Personnel, Fire Safety Inspectors/Elevator Maintenance Personnel

Note 3: The definition of part-time employee includes re-hired senior personnel

Note 4: The above information is based on employee headcount statistics as of December 31, 2024

Employee Nationality Diversity Composition in 2024 Unit: Persons

Ho-Ping Power Com	pany		Full-Time Employees		Management Staff	
Items/By Category		Headcount	Percentage of Total Workforce	Headcount	Percentage of Total Workforce	
Ethnicity	Asian (Han Chinese + All Ethnic Minorities)	225	76.5%	49	92.5%	
	African American	-	0.0%	-	0.0%	
	Hispanic or Latino	-	0.0%	-	0.0%	
	White	-	0.0%	-	0.0%	
	Indigenous Peoples	69	23.5%	4	7.5%	
Nationality/Region	Taiwan	294	100.0%	53	100.0%	
	Mainland China	-	0.0%	-	0.0%	
	Türkiye	-	0.0%	-	0.0%	
	Portugal	-	0.0%	-	0.0%	
	Others	-	0.0%	-	0.0%	
Total		294	100.0%	53	100.0%	

Note 1: Definition of Indigenous Peoples and Ethnic Minorities: Includes the Truku, Atayal, Seediq, Bunun, Sakizaya, and Amis peoples.

Note 2: The above information is based on employee headcount statistics as of December 31, 2024

New Hires and Departures in 2024

		Ho-Ping F	Power Company
New Hires		Headcount	Percentage
Gender	Female	9	3.06%
	Male	12	4.08%
Age	Under 30	6	2.04%
	30-50	13	4.42%
	Over 50	2	0.68%
Total		21	7.14%
Departed Empl	oyees		
Gender	Female	9	3.06%
	Male	80	27.21%
Age	Under 30	18	6.12%
	30-50	52	17.69%
	Over 50	19	6.46%
Total		89	30.27%
Voluntary Depa	artures		
Gender	Female	3	1.02%
	Male	8	2.72%
Age	Under 30	5	1.70%
	30-50	5	1.70%
	Over 50	1	0.34%
Total		11	3.74%

Note 1: Voluntary departures exclude retirees.

Note 2: New hire and departure rates are calculated based on total employees headcount of Ho-Ping Power Company.

2024 Training Hours and Investment

Items			Training Hours	Total Hours	Average Hours
		Ho-Ping	Power Company		
		Female	Male		
Age	Under 30	521.4	1,183.3	1,704.7	53.3
	30-50	455.4	5,761.2	6,216.6	34.5
	Over 50	309.3	2,620.0	2,929.3	35.7
Job Level	Senior-Level Supervisor	-	156.7	156.7	26.1
	Mid-Level Supervisor	137.8	1,661.8	1,799.6	105.9
	Entry-Level Supervisor	39.4	138.2	177.6	5.9
	Professionals	299.9	3,702.1	4,002.0	42.1
	Direct Employees	809.0	3,905.7	4,714.7	32.3
Total Hours		1,286.1	9,564.5	10,850.6	-
Average Hours		42.9	36.2	-	36.9
Average Training	g and Development Cost per Full-time Employee				NT\$ 4,875

Parental Leave Usage in 2024

Ho-Ping Power Company		2024
Items	Female	Male
Number of Employees Eligible for Parental Leave in the Year (A)	30	264
Number of Employees Who Applied for Parental Leave in the Year (B)	0	2
Expected Number of Employees Returning to Work in the Year (C)	0	2
Actual Number of Employees Who Returned to Work (D)	0	2
Number of Employees Still Employed 12 Months After Returning to Work (E)	0	0
Return-to-Work Rate After Parental Leave (D/C)	0%	100%
One-Year Retention Rate After Returning to Work (E/Previous Year's D)	0%	0%

Note 1: Number of employees eligible for parental leave in the year refers to full-time employees who have worked for six months or more

2024 Occupational Injury Statistics

Site		Occupational Accident		Fatality	Rate of High-consequence	Total Recordable Injury	Lost Time Injury	Actual
	Fatalities	Number of High-consequence	Number of Recordable	Rate	Work-related Injuries	Frequency Rate	Frequency Rate	Working Hours
		Work-related Injuries	Work-related Injuries			(TRIFR)	(LTIFR)	
Employee	0	0	0	0	0	0	0	597,636
Contractors	0	0	0	0	0	0	0	524,404

Total Injury Frequency Index (FSI) in Taiwan Over the Past Three Years

Site			2022			2023			2024
	Frequency Rate	Severity Rate	Full Spectrum	Frequency Rate	Severity Rate	Full Spectrum	Frequency Rate	Severity Rate	Full Spectrum
	(FR) per Million	(SR) per Million	Injury Rate	(FR) per Million	(SR) per Million	Injury Rate	(FR) per Million	(SR) per Million	Injury Rate
	Working Hours	Working Hours	(FSI)	Working Hours	Working Hours	(FSI)	Working Hours	Working Hours	(FSI)
Employees	1.81	54	0.31	1.75	52	0.3	0	0	0
Contractors	0	0	0	0	0	0	0	0	0

Note 1: Occupational injury data calculations are primarily based on monthly occupational accident statistics reported by each plant

Note 2: The main types of occupational injuries include entanglement, impact, falling, and cuts

Note 3: Fatality Rate = (Number of Fatalities / Total Actual Working Hours) x 1,000,000

Note 4: Rate of High-consequence Work-related Injuries = (Number of High-consequence Work-related Injuries / Total Actual Working Hours) x 1,000,000

Note 5: Rate of Recordable Work-related Injuries = (Number of Recordable Work-related Injuries / Total Actual Working Hours) x 1,000,000

Note 6: Injury Rate = (Number of Recordable Work-related Injuries - Number of Fatalities / Total Actual Working Hours) x 1,000,000

Note 7: Some actual working hours are estimated based on the number of plant entries x 8 hours

Energy Transition

6.2

Overview

Sustainability Disclosure for the Listed Cement Companies

Inclusion

Appendix

Cement Industry Sustainability Disclosure Indicators

Decarbonization

Cement Industry Sustainability Disclosure Indicators

Governance

The calculation scope of indicators 2 to 4 includes Construction Materials operations in Taiwan, Mainland China, CIMPOR and OYAK CEMENT.

Nature

For detailed energy consumption information, please refer to 6.1.2 TCC Key Indicators | Construction Materials

Indicator	Indicator Type	2024 Disclo	sure Stat	us			Unit	Notes
Total energy consumption,	Quantitative	The energy	consump	tion by operati	ional sites in Taiwan a	ınd	Gigajoule (GJ)	1.The percentage of purchased electricity represents the ratio
percentage of purchased		Mainland C	hina: 92,0	88,519GJ			Percentage (%)	of purchased electricity consumption to total energy
electricity, and utilization rate ¹		Percentage	of purch	ased electricity	/: 9.37%			consumption.
		Renewable	energy u	sage rate: 0.27%	6			2.The renewable energy usage rate represents the ratio of
								renewable energy consumption to total energy consumption.
Total water withdrawal and total	Quantitative	Total water	withdraw	al: 45,118 thous	and cubic meters		thousand cubic	
water consumption		Total water	consump	tion: 19,096 the	ousand cubic meters		meters (1,000m³)	
Weight of waste generated,	Quantitative	The weight	of waste	generated by o	perational sites in Ta	wan	Tonnnes(t)	1.The percentage of hazardous waste represents the
percentage of hazardous waste,		and Mainla	nd China:	34,930 metric	tons		percentage(%)	percentage of hazardous waste weight over total waste
and percentage of recycling ¹		Percentage	of hazard	dous waste: 1.69	%			weight.
		Percentage	of waste	recycling: 98.49	%			2.The percentage of waste recycling represents the percent-
								age of total weight of waste recycled both on-site and off-site
		Note1: In light	of the proje	ct timeline, the da	ata on waste treatment for	CIMPOR		(excluding waste incinerated for power generation) over total
		and OYAK CI	EMENT will	be disclosed in	the ESG section of TCC	s official		waste weight.
Number of employees in and	Quantitative	For TCC em	iployee a	nd contractor o	occupational injury n	ımbers	Quantity rate(%)	
rate of occupational accidents		and rates, p	lease ref	er to <u>6.1.2 TCC k</u>	<u> Key Indicators Socia</u>	l - 2024		
		Occupation	nal Injury	<u>Statistics</u>				
Production by product category	Quantitative						Metric tons	
	Product Cat	egory	Taiwan	Mainland China	OYAK CEMENT+CIMPO	DR T	otal	
	Clinker		4,224,284	25,613,238	12,818,	11 42,655,	633	
	Cement		4,323,185	26,866,352	16,419,5	79 47,609	1,117	
	Cementitiou		4,598,399	31,818,605	16,988,6		<u> </u>	
	<u> </u>		6,262,643	-		- 6,262,		
		ation concrete	2,062,133 1,167,822	-		- 2,062 - 1,167,	<u> </u>	
	Concrete su		9,492,597		18,201,0			

Nature

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Climate-related Information for TWSE/TPEx Listed Companies - Climate Change Risks and Opportunities for the Company and Related Response Measures Taken

Items	Corresponding Sections	Page Number
1 Describe the board of directors' and management's oversight and governance of climate-related risks and opportunities.	Please refer to the 2024 Annual Report	97
2 Describe how the identified climate risks and opportunities affect the business, strategy, and finances of the business (short, medium, and	Please refer to the 2024 Annual Report	97-98
long term).		
3 Describe the financial impact of extreme weather events and transformative actions.	Please refer to the 2024 Annual Report	98
4 Describe how climate risk identification, assessment, and management processes are integrated into the overall risk management system.	Please refer to the 2024 Annual Report	98
5 If scenario analysis is used to assess resilience to climate change risks, the scenarios, parameters, assumptions, analysis factors and major	Please refer to the 2024 Annual Report	99
financial impacts used should be described.		
6 If there is a transition plan for managing climate-related risks, describe the content of the plan, and the indicators and targets used to	Please refer to the 2024 Annual Report	99-100
identify and manage physical risks and transition risks.		
7 If internal carbon pricing is used as a planning tool, the basis for setting the price should be stated.	Please refer to the 2024 Annual Report	100
8 If climate-related targets have been set, the activities covered, the scope of greenhouse gas emissions, the planning horizon, and the		
progress achieved each year should be specified. If carbon credits or renewable energy certificates (RECs) are used to achieve relevant	Please refer to the 2024 Annual Report	100
targets, the source and quantity of carbon credits or RECs to be offset should be specified.		
9 GHG inventory and assurance status, reduction targets, strategies, and specific action plans	Please refer to the table below	

Greenhouse Gas Inventory Information

Company Basic Information:

- •Companies with capital of NT\$10 billion or more, steel industry, and cement industry.
- •In accordance with the Sustainable Development Guidemap for TWSE/TPEx Listed Companies, the minimum disclosure requirements are: Parent company entities shall begin inventory from 2023, and subsidiaries included in consolidated financial statements shall begin inventory from 2025.

The consolidated company has established a greenhouse gas inventory mechanism in accordance with the ISO 14064-1 greenhouse gas inventory standard published by the International Organization for Standardization (ISO). Since 2016, we have conducted regular inventories of our parent company entities, and since 2005, we have gradually extended greenhouse gas emission inventories for subsidiaries included in consolidated financial statements. This enables comprehensive monitoring of greenhouse gas usage and emissions, and verification of the effectiveness of reduction actions. In addition, the greenhouse gas inventory data for the past two years has been compiled using the operational control approach, including greenhouse gas emissions from the company and all subsidiaries in the consolidated financial statements, as described below:

Items	2023		2024	
Parent Company	Emissions	Intensity	Emissions	Intensity
	(metric tons CO2e)	(metric tons CO2e/million NTD revenue)	(metric tons CO ₂ e)	(metric tons CO2e/million NTD revenue)
Scope 1	3,459,664	133.0	3,303,179	126.7
Direct greenhouse gas emissions				
Scope 2	195,661	7.5	206,001	7.9
Indirect greenhouse gas emissions				
Subsidiaries in Consolidated Financial Statements				
Scope 1	-	-	36,500,100	279.0
Direct greenhouse gas emissions				
Scope 2	-	-	1,256,511	9.6
Indirect greenhouse gas emissions				
Total	3,655,324	140.5	41,265,791	266.9

Note 1: The parent company's direct emissions (Scope 1) and energy indirect emissions (Scope 2) data coverage includes: The Company's cement and concrete operations in Taiwan, including cement manufacturing at Hoping Plant and Suao Plant of Hoping Branch; ready-mixed concrete manufacturing at Taipei, Taichung, and Kaohsiung RMC Plants and their 22 subordinate locations, Kaohsiung and Taichung Port shipping stations; as well as offices including the Group Operations Headquarters and Low-carbon R&D Center.

Note 2: The energy intensity for the parent company in 2024 and 2023 was calculated using TCC's standalone net revenue of NTD 26,077,189 thousand and NTD 26,021,513 thousand, respectively. The energy intensity for subsidiaries in consolidated financial statements in 2024 was calculated using net revenue of NTD 154,606,511 thousand.

Note 3: The Company's direct emissions (Scope 1) and energy indirect emissions (Scope 2) data for 2024 and 2023 have been verified by third-party organizations, including British Standards Institution (BSI) Taiwan Branch and SGS Taiwan Ltd. The relevant certificates can be viewed on the Sustainability Certification page of the Company's official website.

Note 4: The operating revenue of subsidiaries OYAK CEMENT and CIMPOR has been officially included in the Company's consolidated financial statements since March 2024. The greenhouse gas emissions of OYAK CEMENT and CIMPOR from March to December 2024 are disclosed in the above table. If GHG Protocol's all-year option is applied to include OYAK CEMENT and CIMPOR's full-year greenhouse gas emissions for 2024, the direct and indirect greenhouse gas emissions of subsidiaries in consolidated financial statements for 2024 would amount 38,010,464 and 1,340,890 metric tons CO₂e, respectively. Furthermore, assuming OYAK CEMENT and CIMPOR's operating revenue was included in the Company's consolidated financial statements from the beginning of 2024, the pro forma revenue for 2024 would be NTD 139,305,507 thousand. Based on this, the energy intensity of subsidiaries in consolidated financial statements for 2024 would be calculated as 272.9and 9.6 metric tons CO₂e per million NTD revenue for direct and indirect greenhouse gas emissions, respectively.

Greenhouse Gas Assurance Information

The Company's minimum assurance coverage requirements as specified in the Sustainable Development Guidemap for TWSE/TPEx Listed Companies:

- The parent company's standalone entity should begin assurance implementation starting in 2024.
- Subsidiaries in consolidated financial statements should begin assurance implementation starting in 2027.

The Company's greenhouse gas inventory assurance status for the past two years is described below:

Items		2023 Emissions (metric tons CO ₂ e)	2024 Emissions (metric tons CO ₂ e)
Parent Company	Scope 1	3,459,664	3,303,179
	Direct greenhouse gas emissions		
	Scope 2	195,661	206,001
	Indirect greenhouse gas emissions		
	Total	3,655,324	3,509,180
	Percentage of disclosed inventory data	100%	100%
Assurance Agency		British Standards Institution (BSI) Taiwan Branch and SGS Taiwan Ltd.	British Standards Institution (BSI) Taiwan Branch
Assurance Description		Assurance Standard ISO 14064-3:2019	Assurance Standard ISO 14064-3:2019
Assurance Opinion and Conclusion		Unqualified Opinion	Unqualified Opinion

Greenhouse Gas Reduction Targets, Strategies, and Specific Action Plans

Please refer to the Total Climate Commitment section

6.3

Global Reporting Initiative Index

Statement of Use
GRI 1 Adopted
Applicable GRI Sector Standards

TCC Group Holdings CO., LTD. has reported in accordance with the GRI Standards for the period from January 1, 2024, to December 31, 2024.

GRI 1: Foundation 2021 GRI 14: Mining Sector

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in GRI Sector Standards
General Disclosures				
GRI 2: General Disclosures 2021				
2-1 Organizational details	About This Report	37		
2-2 Entities included in the organization's	About This Report	37		
sustainability reporting				
2-3 Reporting period, frequency and contact point	About This Report	37		
2-4 Restatements of information	-		No restatements of information in 2024	
2-5 External assurance	About This Report	37		
	Appendix AA1000 Assurance Statement	267		
	Appendix ISAE3000 Assurance Report	267		
2-6 Activities, value chain and	Appendix ISAE3000 Assurance Report	267	In 2024, TCC expanded its operational	
other business relationships	TCC Vision & Drivers Product and Service	34	scope to include overseas subsidiaries	
	Value Chain		OYAK CEMENT and CIMPOR	
	1.7 Sustainable Supply Chain Management	71		
2-7 Employees	6.1 ESG Data	227.237		
	TCC Key Indicators Social			
2-8 Workers who are not employees	6.1 ESG Data	227.237		
	TCC Key Indicators Social			
2-9 Governance structure and composition	1.1 Governance Structure	40		
2-10 Nomination and selection of the highest	1.1 Governance Structure	40		
governance body				

Inclusion

 $ESG\ Data --Sustainability\ Disclosure\ for\ the\ Listed\ Cement\ Companies -- \textbf{Global\ Reporting\ Initiative\ Index} --SASB\ Index -- ESRS\ Index -- Third-Party\ Assurance\ Statement$

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in GRI Sector Standard
2-11 Chair of the highest governance body	1.1 Governance Structure	40		
2-12 Role of the highest governance body	1.1 Governance Structure	40		
in overseeing impact management	Stakeholder and Material Topic	197		
	Analysis			
2-13 Delegation of responsibility for managing impacts	1.1 Governance Structure	40		
2-14 Role of the highest governance body	About This Report	37		
in sustainability reporting				
2-15 Conflicts of interest	1.1 Governance Structure	40	For important Board resolutions and dir	rectors' recusal due to conflicts of
			interest, please refer to the Board of Dir	rectors Section on TCC's official
			website	
2-16 Communication of critical concerns	1.1 Governance Structure	40	For related communication matters, ple	ease refer to the Board of Directors
	1.3 Risk Management Framework	46	and Sustainability Committee meeting	minutes in the Investor Relations -
			Committees section on TCC's official w	rebsite
2-17 Collective knowledge of the	1.1 Governance Structure	40		
highest governance body				
2-18 Evaluation of the performance	1.1 Governance Structure	40		
of the highest governance body				
2-19 Remuneration policies	1.1 Governance Structure	40	Please refer to TCC Group Holdings CO	., LTD.'s Annual Report for details
			on the remuneration paid to directors, s	supervisors, President and Vice
			Presidents. Currently, TCC does not have	ve a clawback mechanism for
			remuneration	
2-20 Process to determine remuneration	1.1 Governance Structure	40	Please refer to TCC Group Holdings CO	., LTD.'s Remuneration Committee
			Charter	
2-21 Annual total compensation ratio	-		In 2024, the median ratio of the total an	nual remuneration of the
			highest-paid internal manager to the to	tal annual remuneration of general
			employees was 44:1 (remuneration inclu	udes: salary, year-end bonus, and
			variable bonus)	
			The total remuneration change rate for	2024 was -10%
			(The above ratios were calculated base	d on the renumeration of the
			Chairman of TCC, Mr. Nelson An-ping C	Chang)

201-2 Financial implications and other risks

and opportunities due to climate change



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1.4 TCFD

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in GRI Sector Standards	
2-22 Statement on sustainable development strategy	Letter to Our Stakeholders	04			
2-23 Policy commitments	TCC Vision & Drivers	08			
2-24 Embedding policy commitments	5.5 Human Rights Protection	180			
2-25 Processes to remediate negative impacts	Stakeholder and Material Topic Analysis	197			
	5.5 Human Rights Protection	180			
2-26 Mechanisms for seeking advice and raising concerns	1.5 Ethical Management	61			
2-27 Compliance with laws and regulations	1.5 Ethical Management	61	All fines paid in the year 2024 v	vere incurred due to violations of	
			regulations that occurred with	in the current reporting period.	
			There were no fines paid for vio	plations that occurred in	
			previous reporting periods.		
2-28 Membership associations	-		Please refer to the ESG section	on the TCC website for details	
			on TCC's membership in associations.		
2-29 Approach to stakeholder engagement	Stakeholder and Material Topic Analysis	197			
2-30 Collective bargaining agreements	5.5 Human Rights Protection	180			
			Taiwan & Mainland China	91%	
			CIMPOR &OYAK CEMENT	51%	
			Total	76%	
			RMC plants, grinding plant, Ho Sheng	d China includes cement plants (not yet included Longshan), g Mining Co., Ltd., and Ho-Ping Power Company. The scope of clude included the cement plant in Cameroon.	
Material Topics				14.1.1	
GRI 3: Material Topics 2021				14.2.1	
3-1 Process to determine material topics	Stakeholder and Material Topic Analysis	197			
3-2 List of material topics	Stakeholder and Material Topic Analysis	197		14.2.2	
Material Topic Climate Action and Net-Zero Emissions					
GRI 3: Material Topics 2021					
3-3 Management of material topics	Stakeholder and Material Topic Analysis	197			

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GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification Reference number of disclosures in GRI Sector S	Standards
GRI 302: Energy 2016				
302-1 Energy consumption	6.1 ESG Data Sheet	209,234	In 2024, the energy consumption by operational sites in Taiwan and Mainland	14.1.2
within the organization ¹	TCC Key Indicators Environmental		China was 92,088,519 GJ, comprising 90,306,520 GJ of non-renewable energy and	
			1,781,999 GJ of renewable energy.	
			Renewable energy fuel types include coal, diesel, gasoline, natural gas, purchased	
			electricity, waste heat power generation, and non-renewable alternative fuels, of	
			which non-renewable alternative fuels totaled 13,325,135 GJ. Renewable energy	
			sources include renewable biofuels and self-generated solar power for internal	
			use. Renewable biofuels equivalent to approximately 1,531,469GJ. Self-generated	
			solar power for internal use is converted at a rate of 3.6 GJ per thousand kWh,	
			equivalent to approximately 250,530GJ.	
302-3 Energy intensity	Sustainability Goals and Tracking	35		14.1.3
302-4 Reduction of energy consumption	6.1 ESG Data Sheet	209,234	In 2024, the plant's energy-saving projects saved 42,850 thousand kWh of electrici-	14.1.4
	TCC Key Indicators Environmental		ty and 52,161 metric tons of coal, and 200 liters of diesel, equivalent to 1,357,933 GJ.	
			Please refer to 6.1.2 TCC Key Indicators Construction Materials - 2024 Energy	
			Conservation Programs.	
GRI 305: Emissions 2016				
305-1 Direct (Scope 1) GHG emissions	6.1 ESG Data Sheet	209,234	Greenhouse gases include CO ₂ , CH ₄ , N ₂ O, and HFCs, with no emissions of PFCs,	14.1.5
	TCC Key Indicators Environmental		SF ₆ , or NF ₃ .	
	6.2 Sustainability Disclosure for the Listed	242		
	Cement Companies			
305-2 Energy indirect (Scope 2)	6.1 ESG Data Sheet	209,234		14.1.6
GHG emissions	TCC Key Indicators Environmental			
	6.2 Sustainability Disclosure for the Listed	242		
	Cement Companies			
305-3 Other indirect (Scope 3)	6.1 ESG Data Sheet	209,234		14.1.7
GHG emissions	TCC Key Indicators Environmental			
	6.2 Sustainability Disclosure for the Listed	242		
	Cement Companies			
305-4 GHG emissions intensity	6.1 ESG Data Sheet	209,234		14.1.8
	TCC Key Indicators Environmental			
	6.2 Sustainability Disclosure for the Listed	242		
	Cement Companies			

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GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification Reference number of disclosures in GRI Sector	r Standards
Material Topic Resource Co-processing				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		14.5.1
GRI 306: Waste 2020				
306-1 Waste generation and significant waste-related impacts	2.2 Low-Carbon Production Management	89		14.5.2
	2.3 Resource Recycling	99		
306-2 Management of significant waste-related impacts	2.2 Low-Carbon Production Management	89		14.5.3
	6.1 ESG Data Sheet	209,234		
	TCC Key Indicators Environmental			
306-3 Waste generated	6.1 ESG Data Sheet	209,234		14.5.4
	TCC Key Indicators Environmental			
306-4 Waste diverted from disposal	6.1 ESG Data Sheet	209,234		14.5.5
	TCC Key Indicators Environmental			
Material Topic Green Energy and Energy Storage				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		
GRI 302: Energy 2016				
302-1 Energy consumption within the organization ¹	6.1 ESG Data Sheet	209,234	In 2024, the energy consumption by operational sites in Taiwan and	
	TCC Key Indicators Environmental		Mainland China was 92,088,519 GJ, comprising 90,306,520 GJ of	
			non-renewable energy and 1,781,999 GJ of renewable energy.	
			Renewable energy fuel types include coal, diesel, gasoline, natural gas,	
			purchased electricity, waste heat power generation, and non-renewable	
			alternative fuels, of which non-renewable alternative fuels totaled	
			13,325,135 GJ. Renewable energy sources include renewable biofuels	
			and self-generated solar power for internal use. Renewable biofuels	
			equivalent to approximately 1,531,469GJ. Self-generated solar power for	
			internal use is converted at a rate of 3.6GJ per thousand kWh, equiva-	
			lent to approximately 250,530GJ.	
302-3 Energy intensity	6.1 ESG Data Sheet	209,234		
	TCC Key Indicators Environmental			

Note1: In light of the schedule, information on Energy consumption by CIMPOR and OYAK CEMENT will be disclosed in the ESG section of TCC's official website.

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification Reference number of disclosures in GRI Sector	or Standards
302-4 Reduction of energy consumption	6.1 ESG Data Sheet	209,234	In 2024, the plant's energy-saving projects saved 42,850 thousand kWh	
	TCC Key Indicators Environmental		of electricity and 52,161 metric tons of coal, and 200 liters of diesel,	
			equivalent to 1,357,933 GJ. Please refer to 6.1.2 TCC Key Indicators	
			Construction Materials - 2024 Energy Conservation Programs.	
Material Topic Low-Carbon Products and Services				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		
GRI 301: Materials 2016				
301-2 Recycled input materials used	6.1 ESG Data Sheet	209,234		
	TCC Key Indicators Environmental			
Material Topic Legal Compliance				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		
GRI 205: Anti-corruption 2016				
205-3 Confirmed corruption incidents and actions taken	1.5 Ethical Management	61		
GRI 206: Anti-competitive Behavior 2016				
206-1 Legal actions for anti-competitive behavior,	1.5 Ethical Management	61	TCC had no incidents of anti-competitive behavior, anti-trust, and	
anti-trust, and monopoly practices			monopoly practices in 2024	
Material Topic Workplace Health and Safety				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		14.16.
GRI 403: Occupational Health and Safety 2018				
403-1 Occupational health and safety management system	5.4 Occupational Health and Safety	173		14.16.2
403-2 Hazard identification, risk assessment,	5.4 Occupational Health and Safety	173	In accordance with Article 18 of the Occupational Safety and Health	14.16.3
and incident investigation			Act, workers who identify potential hazards may leave work conditions	
			they believe could cause injury or illness and must immediately report	
			the situation to their direct supervisor without facing disciplinary action	
403-3 Occupational health services	5.4 Occupational Health and Safety	173		14.16.4
403-4 Worker participation, consultation, and communication	5.4 Occupational Health and Safety	173		14.16.5
on occupational health and safety				
403-5 Worker training on occupational health and safety	5.4 Occupational Health and Safety	173		14.16.6
403-6 Promotion of worker health	5.4 Occupational Health and Safety	173		14.16.7

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification Reference number of disclosures in GRI Sect	
403-7 Prevention and mitigation of occupational health	5.4 Occupational Health and Safety	173		14.16.8
and safety impacts directly linked by business relationships	S			
403-8 Workers covered by occupational health and safety	5.4 Occupational Health and Safety	173		14.16.9
management system				
403-9 Work-related injuries	6.1 ESG Data Sheet:	227,237		14.16.10
	TCC Key Indicators Social			
403-10 Work-related ill health	5.4 Occupational Health and Safety	173	In 2024, there were no reported cases of occupational diseases at TCC's	14.16.11
	6.1 ESG Data Sheet:	227,237	Taiwan plants. However, at Mainland China facilities, two employees	
	TCC Key Indicators Social		were diagnosed with occupational diseases, both involving hearing	
			impairment. Following labor-management agreements, these cases	
			were managed according to occupational injury procedures. Due to	
			equipment limitations, direct equipment noise reduction was not	
			feasible. Subsequently, on-site management procedures were adjusted,	
			requiring workers to wear protective equipment consistently and to	
			minimize time spent in the affected work area, aiming to reduce	
			occupational injuries.	
Material Topic R&D Innovation				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		
Material Topic Biodiversity				
GRI 3: Material Topics 2021				
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197		14.4.1
GRI 101 Biodiversity 2024				
101-1 Policies to halt and reverse biodiversity loss	4.1 TCC Nature Action	126		14.4.2
101-2 Management of biodiversity impacts	4.1 TCC Natural Action	126		14.4.3
	4.2 Forest & Soil - TCC Restoration Map	136		
	4.3 Marine Rehabilitation	148		
	4.4 OECMs (Other Effective area-based	153		
	Conservation Measures)			
	4.5 Nature-based Solutions (NbS)	154		
101-3 Access and benefit-sharing	4.6 Natural Benefit Sharing	156		
101-4 Identification of biodiversity impacts	4.1 TCC Nature Action	126		14.4.4

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GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in GRI Sect	or Standards
101-5 Locations with biodiversity impacts	4.1 TCC Nature Action	126	For detailed information, ple	ease refer to TCC's 2023 TNFD Report	14.4.5
101-6 Direct drivers of biodiversity loss	4.1 TCC Nature Action	126	In 2023, the TNFD LEAP met	thodology was applied to analyze cement	14.4.6
101-7 Changes to the state of biodiversity	4.1 TCC Nature Action	126	plants and mines in Taiwan, Ho	o-Ping Power Company, and Hoping	14.4.7
101-8 Ecosystem services	4.1 TCC Nature Action	126	EcoPort. Future plans include	expanding the assessment scope to	14.4.8
			cover other operational sites a	and suppliers	
Material Topic Local Inclusion					
GRI 3: Material Topics 2021					
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197			14.10.1
GRI 413: Local Communities 2016					
413-1 Operations with local community engagement,	5.6 Social Engagement Partners	185	■ The Hoping Plant has comp	leted comprehensive local community	14.10.2
impact assessments, and development programs			communication and impact as	ssessments, accounting for 50% of	
413-2 Operations with significant actual and potential	5.6 Social Engagement Partners	185	cement plant operating sites i	n Taiwan	14.10.3
negative impacts on local communities			In 2024, the Hoping Emerger	ncy Relief Fund approved assistance for	
			74 cases for assistance, with a	subsidy amount of NTD 750,000	
			■ TCC introduced Social Retu	rn On Investment (SROI) and received	
			verification from Social Value I	nternational, UK, in December 2021,	
			confirming that for every NTD	1 invested in the overall DAKA project,	
			NTD 3.54 of social value is gen	erated.	
			Related Report Content Please	e refer to TCC's SROI Report	
Material Topic Talent Cultivation and Development					
GRI 3: Material Topics 2021					
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197			14.17.1
GRI 404: Training and Education 2016					
404-1 Average hours of training per year per employee	6.1 ESG Data Sheet	227,237			14.17.7
	TCC Key Indicators Social				
404-3 Percentage of employees receiving regular	5.3 Employee Remuneration and Benefits	169			
performance and career development reviews					
Material Topic Pollution Control and Management					
GRI 3: Material Topics 2021					
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197			14.3.1
GRI 305: Emissions 2016					
305-7 Nitrogen oxides (NOx), sulfur oxides (SOx),	6.1 ESG Data Sheet	209,234			14.3.2
and other significant emissions	TCC Key Indicators Environmental				

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 $ESG\ Data --Sustainability\ Disclosure\ for\ the\ Listed\ Cement\ Companies -- \textbf{Global\ Reporting\ Initiative\ Index} --SASB\ Index -- ESRS\ Index -- Third-Party\ Assurance\ Statement$

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in	GRI Sector Standards
Material Topic Water Resource Management					
GRI 3: Material Topics 2021					
3-3 Management of Material Topics	Stakeholder and Material Topic Analysis	197			14.7.1
GRI 303: Water 2018					
303-1 Interactions with water as a shared resource	2.2 Low-Carbon Production Management	89			14.7.2
303-2 Management of water discharge-related impacts	2.2 Low-Carbon Production Management	89			14.7.3
303-3 Water withdrawal	6.1 ESG Data Sheet	209,234	Water withdrawn at operational sites	in Taiwan and Mainland	14.7.4
	TCC Key Indicators Environmental		China was fresh water.		
303-4 Water discharge	6.1 ESG Data Sheet	209,234			14.7.5
	TCC Key Indicators Environmental				
303-5 Water consumption	6.1 ESG Data Sheet	209,234			14.7.6
	TCC Key Indicators Environmental				
Topic-specific Disclosures					
GRI 204: Procurement Practices 2016					
204-1 Proportion of spending on local suppliers	1.7 Supply Chain Management	71			
GRI 401: Employment 2016					
401-1 New employee hires and employee turnover	6.1 ESG Data Sheet	227,237			
	TCC Key Indicators Social				
401-2 Benefits provided to full-time employees that are	5.3 Employee Remuneration and Benefits	169	In 2024, TCC also employed part-time	staff who are not fully	
not provided to temporary or part-time employees			eligible for the benefits provided to fu	ll-time employee, such	
			as inclusion in the Employee Welfare	Committee	
401-3 Parental leave	6.1 ESG Data Sheet	227,237			
	TCC Key Indicators Social				
GRI 405: Diversity and Equal Opportunity 2016					
405-1 Diversity of governance bodies and employees	1.1 Governance Structure	41			
	5.2 Employee Development	163			
	6.1 ESG Data Sheet	227,237			
	TCC Key Indicators Social				

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ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

GRI Standards/Disclosures	Corresponding Sections	Page Number	Notes/Omission Justification	Reference number of disclosures in GRI Sector Sta			
405-2 Ratio of basic salary			2024 TCC salary ratio: female to male employees (Female : Male)				
and remuneration of women to men							
			Employee Level	Base Salary	Base Salary + Other Cash Incentives		
			Top management level	109:100	132:100		
			(executive level)				
			Management level	104:100	109:100		

Note 1: The top management level is defined as Assistant Vice President and higher; the management level covers positions from Supervisor to Senior Manager; and the non-management level consists of individual contributors, such as staff, administrators, engineers, and researchers.

101:100

102:100

= 255

Note 2: The term "base salary" is defined to include the year-end bonus.

Non-management level

Note 3: The major operating sites of TCC correspond to the scope of operations as outlined in this report.

Note 1: The disclosure topics without corresponding GRI Sector Standards are not of the material topics identified this year, including topics 14.6, 14.8 to 14.15, and 14.18 to 14.25.

Note 2: The Material Topic "Talent Cultivation and Development" corresponds to the disclosure items in "Topic 14.17 Employment practices" of GRI 14; nevertheless, since items 14.17.2 to 14.17.6 and 14.17.9. to 14.17.10 have low relevance to talent cultivation and development, they are not applicable to the Material Topic.

Note 3: Information for disclosure items 14.1.9, 14.5.6, 14.10.4, and 14.16.9 have not been fully collected yet for the company's mining-related subsidiaries, as GRI 14 will be issued in 2024. The information will be disclosed once it is complete.

6.4

Sustainability Accounting Standards Board Index

Topic	Code	Category	Metric	Page		
Greenhouse	EM-CM-110a.1	Quantitative	Global Scope 1 Emissions	(ESG Data Sheet)	The proportion of global	regulated emissions is approximately
gas emissions			Percentage covered under emissions-limiting	-	6.50 %.	
			regulations			
	EM-CM-110a.2	Qualitative	Discussion of long-term and short-term	Carbon Competitiveness		
			strategy or plan to manage Scope 1	Science Based Targets (SBT)		
			emissions, emissions reduction targets, and	Reduction Goals		
			an analysis of performance against those			
			targets			
Air Quality	EM-CM-120a.1	Quantitative	Air emissions of the following pollutants: (1)	(ESG Data Sheet)	Disclosure scope primar	ily focused on stationary sources.
			NOx (excluding N2O), (2) SOx, (3) particulate			
			matter (PM10), (4) dioxins/furans, (5) volatile			
			organic compounds (VOCs), (6) polycyclic			
			aromatic hydrocarbons (PAHs), and (7) heavy			
			metals			
Energy	EM-CM-130a.1	Quantitative	Total Energy Consumed ¹	-	In 2024, the energy	The energy consumption by operation
Management					consumption by	al sites in Taiwan and Mainland China
					operational sites in	in 2024, including alternative fuel
					Taiwan and Mainland	consumption, is 14,856,604 GJ
					China was 92,088,519 GJ.	
			Percentage grid electricity	-	9.37%	The proportion of grid electricity refers
						to the share of purchased electricity in
						the total energy consumption.

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Topic	Code	Category	Metric	Page			
Energy	EM-CM-130a.1	Quantitative	Proportion of Alternative	-	Taiwan: 11.85%	"The p	roportion of alternative
Management					Taiwan and Mainland China	energy	refers to the share of
					(weighted average): 16.13%	alterna	ative fuels (including wood
						chips,	SRF, waste paper, etc.) in the
						total e	nergy consumption."
			Percentage renewable	-	Taiwan: 0.14%		
					Taiwan and Mainland China	The pr	oportion of renewable
					(weighted average): 0.27%	energy	refers to the share of
						self-ge	nerated and self-used
						renewa	able energy in the total
						energy	consumption.
Water	EM-CM-140a.1	Quantitative	Total Water Storage Volume	(ESG Data Sheet)	The percentage of water with	drawal from areas	with high or extremely high
Management			Total Water Consumption	(ESG Data Sheet)	water stress accounts for 9%	of the total water	withdrawal.
			Percentage in regions with High or Extremely	-	The percentage of water cons	sumption in areas	with high or extremely high
			High Baseline Water Stress		water stress accounts for 21%	of the total water	consumption.
Waste	EM-CM-150a.1	Quantitative	Amount of waste generated	-	The weight of waste generate	d by operational s	ites in Taiwan and Mainland
Management ¹			Percentage hazardous	-	China: 34,930 metric tons		
			Percentage recycled	-	Percentage of hazardous was	te: 1.6%	
					Percentage of waste recycling	g: 98.4%	
Biodiversity	EM-CM-160a.1	Qualitative	Description of environmental management	-	TCC (Taiwan Cement Corpora	tion) has committ	ed to achieving zero net
Impacts			policies and practices for active sites		deforestation by 2040, and air	ms to reach No Ne	t Loss and move toward a
	EM-CM-160a.2	Quantitative	Terrestrial acreage disturbed	-	Nature Positive Impact. All op	erational sites wil	be 100% located outside of
			Percentage of impacted area restored	-	UNESCO World Heritage area	s and IUCN Protec	cted Areas Categories I–IV.
					TCC has also established a Bi	odiversity Manage	ment Policy, with 100% of
					mining sites in Taiwan and Ma	ainland China havi	ng Biodiversity Manage-
					ment Plans (BMP), and 100%	of mining sites in 1	aiwan, Mainland China,
					Türkiye, and Portugal having (Quarry Rehabilitati	on Plans (QRP).
						Mined Area	Rehabilitated Area
					Taiwan	144.85	76.37
					Mainland China	765.01	230.76
					Combined Total	909.86	307.13

Topic	Code	Category	Metric	Page	
Workforce	EM-CM-320a.1	Quantitative	Total recordable incident rate (TRIR) for full-time	(ESG Data Sheet)	
Health &			employees and contract employees		
Safety			Near miss frequency rate (NMFR) for full-time	-	Near Miss Frequency Rate (NMFR) in Taiwan: 1.30 per 200,000 working
			employees and contract employees		hours
					Near Miss Frequency Rate (NMFR) in Mainland China: 0.23 per
					200,000 working hours.
					Near Miss Frequency Rate (NMFR) in CIMPOR & OYAK CEMENT: 5.49
					per 200,000 working hours.
	EM-CM-320a.2	Quantitative	Number of reported cases of silicosis	-	No cases of silicosis reported at TCC in 2024.
Product	EM-CM-410a.1	Quantitative	Percentage of products that qualify for cred-its in		TCC's low-carbon products in Taiwan include the Portland Type I
Innovation			sustainable building design and construc-tion		cement, Portland Type II (MH) cement, and Portland limestone
			certifications		cement that have obtained carbon reduction labels and Gold-level
					environmental protection marks, as well as concrete with a cement
					content below 50% of the binder and concrete made with Portland
					limestone cement. In Mainland China, low-carbon products refer to
					cement products certified as low-carbon products. For CIMPOR and
					OYAK CEMENT, low-carbon products refer to cements other than
					Portland Type I and the concrete produced using those cements. The
					Taiwan and Mainland China operating sites generated revenue of
					NT\$32,672,421 thousand from low-carbon products meeting the
					above definitions in 2024. After TCC's consolidation of CIMPOR and
					OYAK CEMENT in March 2024, according to CIMPOR and OYAK
					CEMENT's definitions of low-carbon cement and concrete, low-car-
					bon product revenue included in consolidated operating revenue
					from March to December 2024 totaled NT\$39,599,537 thousand.
	EM-CM-410a.2	Quantitative	Total addressable market and share of market for		TCC is the largest cement manufacturer in Taiwan, seventh in
			products that reduce energy, water, and/or		Mainland China, and the largest in both Portugal and Türkiye. Across
			material impacts during usage and/or production		all markets, TCC is committed to offering low-carbon cement
					products to reduce environmental impact.
Pricing Integrity	EM-CM-520a.1	Quantitative	Total amount of monetary losses as a result of	-	None
& Transparency			legal proceedings associated with cartel activi-		
			ties, price fixing, and anti-trust activities		
Activity Metrics	EM-CM-000.A	Quantitative	Production volume of main product lines	(Sustainability Disclosure	е
				Indicators for the Cemen	nt Industry)

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European Sustainability Reporting Standards Index

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ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	Notes
ESRS 2 General D	isclosures				
ESRS 2 BP-1	General Basis for Preparation of Sustainability	Legal Compliance	About This Report	37	Required Disclosures
	Statements		1.9 Intellectual Property Management	80	
ESRS 2 BP-2	Disclosures Related to Specific Circumstances		About This Report	37	Required Disclosures
			1.9 Intellectual Property Management	80	
ESRS 2 GOV-1	Roles of Administrative, Management and		1.1 Governance Structure	40	Required Disclosures
	Supervisory Bodies				
ESRS 2 GOV-2	Information Provided to and Sustainability Issues		1.2 Sustainability Management Framework	43	Required Disclosures
	Addressed by the Undertaking's Administrative,				
	Management and Supervisory Bodies				
ESRS 2 GOV-3	Integration of Sustainability-related Performance		1.2 Sustainability Development Implementation	45	Required Disclosures
	in Incentive Schemes		Framework - Management Team Remuneration		
			Policy		
ESRS 2 GOV-4	Due Diligence Statement		5.5 Human Rights Protection	180	Required Disclosures
ESRS 2 GOV-5	Risk Management and Internal Control of		1.3 Risk Management Framework	46	Required Disclosures
	Sustainability Reporting		1.5 Ethical Management - Audit and Internal	61	
			Control Management System		
ESRS 2 SBM-1	Strategy, Business Model and Value Chain		Product & Service Value Chain	34	Required Disclosures
ESRS 2 SBM-2	Stakeholder Interests and Perspectives		Stakeholder and Material Topic Analysis	197	Required Disclosures
ESRS 2 SBM-3	Significant Impacts, Risks and Opportunities and		Stakeholder and Material Topic Analysis	197	Required Disclosures
	Their Interaction with Strategy and Business				
	Model				
ESRS 2 IRO-1	Description of Process for Identifying and		Stakeholder and Material Topic Analysis	197	Required Disclosures
	Assessing Significant Impacts, Risks and				
	Opportunities				
ESRS 2 IRO-2	Disclosure Requirements in ESRS Covered by		Stakeholder and Material Topic Analysis	197	Required Disclosures
	Corporate Sustainability Statement		· · · ·		

ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	Notes
ESRS 2 MDR-P	Policies Adopted for Managing Material Sustainabil-		Stakeholder and Material Topic Analysis	197	Required Disclosures
	ity Matters				
ESRS 2 MDR-A	Actions and Resources Related to Material		Stakeholder and Material Topic Analysis	197	Required Disclosures
	Sustainability Matters				
ESRS 2 MDR-M	Indicators Related to Material Sustainability Matters		Sustainability Goals and Tracking	35	Required Disclosures
ESRS 2 MDR-T	Monitoring the Effectiveness of Policies and		Sustainability Goals and Tracking	35	Required Disclosures
	Actions through Targets				
ESRS E1 Climate Ch	ange				
E1 - ESRS 2 GOV-3	Incorporating Sustainability Performance into	Climate Action and Net-Zero Emissions	5.3 Employee Remuneration and Benefits	169	Required Disclosures
	Incentive Plans				
DR E1-1	Transition Plans for Climate Change Mitigation	Green Energy and Energy Storage	Driver Carbon Competitiveness	11	This Topic is Not Material
E1 - ESRS 2-SBM-3	Significant Impacts, Risks and Opportunities and		1.4 TCFD	51	Required Disclosures
	Their Interaction with Strategy and Business Model				
E1 - ESRS 2-IRO-1	Description of Processes for Identifying and		1.4 TCFD	51	Required Disclosures
	Assessing Material Climate-related Impacts, Risks				
	and Opportunities				
DR E1-2	Policies Related to Climate Change Mitigation and	Climate Action and Net-Zero Emissions	Driver Carbon Competitiveness	11	This Topic is Not Material
	Adaptation				
DR E1-3	Actions and Resources Related to Climate Change	Climate Action and Net-Zero Emissions	Driver Carbon Competitiveness	11	This Topic is Not Materia
	Policies				
DR E1-4	Goals Related to Climate Change Mitigation and	Climate Action and Net-Zero Emissions	Driver Carbon Competitiveness	11	This Topic is Not Material
	Adaptation				
DR E1-5	Energy Consumption and Mix	Climate Action and Net-Zero Emissions	6.1 ESG Data Sheet	209,234	This Topic is Not Materia
			TCC Key Indicators Environmental		
DR E1-6	Scope 1, 2, 3 and Total Greenhouse Gas Emissions	Climate Action and Net-Zero Emissions	6.1 ESG Data Sheet	209,234	This Topic is Not Material
			TCC Key Indicators Environmental		
DR E1-7	Greenhouse Gas Removal and Emission Reduction	Climate Action and Net-Zero Emissions	6.1 ESG Data Sheet	209,234	This Topic is Not Material
	Projects Funded Through Carbon Credits		TCC Key Indicators Environmental		

ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	Notes
DR E1-8	Internal Carbon Pricing	Climate Action and Net-Zero Emissions	2.1 Low-Carbon Construction Materials	83	This Topic is Not Material
DR E1-9	Expected Financial Impact of Material Physical and	Climate Action and Net-Zero Emissions	1.4 TCFD	51	This Topic is Not Material
	Transition Risks and Potential Climate-Related				
	Opportunities				
ESRS E2 Pollution					
E2 - ESRS 2-IRO-1	Description of Process for Identifying and		2.3 Resource Recycling	99	Required Disclosures
	Assessing Material Pollution-Related Impacts,				
	Risks and Opportunities				
DR E2-1	Pollution-Related Policies		2.3 Resource Recycling	99	This Topic is Not Material
DR E2-2	Pollution-Related Actions and Resources		6.1 ESG Data	209,234	This Topic is Not Material
			TCC Key Indicators Environmental		
DR E2-3	Pollution-Related Targets		2.3 Resource Recycling	99	This Topic is Not Material
DR E2-4	Air, Water and Soil Pollution		6.1 ESG Data	209,234	This Topic is Not Material
			TCC Key Indicators Environmental		
DR E2-5	Substances of Concern and Substances of Very		-		This Topic is Not Material
	High Concern				
DR E2-6	Expected Financial Impacts of Material		-		This Topic is Not Material
	Pollution-Related Impacts, Risks and Opportunities				
ESRS E3 Water and	Marine Resources				
E3 - ESRS 2-IRO-1	Description of Processes for Identifying and		4.3 Marine Rehabilitation	148	Required Disclosures
	Assessing Material Impacts, Risks and Opportuni-				
	ties Related to Water and Marine Resources				
DR E3-1	Water and Marine Resources-Related Policies		4.3 Marine Rehabilitation	148	This Topic is Not Material
DR E3-2	Water and Marine Resources-Related Actions		6.1 ESG Data Sheet	209,234	This Topic is Not Material
	and Resources		TCC Key Indicators Environmental		
DR E3-3	Water and Marine Resources-Related Targets		Sustainability Goals and Tracking	35	This Topic is Not Material
			2.2 Low-Carbon Production Management	89	
DR E3-4	Water Consumption		6.1 ESG Data Sheet	209,234	This Topic is Not Material
			TCC Key Indicators Environmental		
DR E3-5	Expected Financial Impacts of Material Impacts,		-		This Topic is Not Material
	Risks and Opportunities Related to Water and				
	Marine Resources				

ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	Notes
ESRS E4 Biodiversity	y and Ecosystems				
DR E4-1	Consideration of Biodiversity and Ecosystems in	Biodiversity	4.1 TCC Nature Action	126	
	Transformation Plans, Strategies and Business Models				
E4 - ESRS 2-SBM 3	Significant Impacts, Risks and Opportunities and Their		4.1 TCC Nature Action	126	Required Disclosures
	Interaction with Strategy and Business Model				
E4 - ESRS 2-IRO-1	Description of the Process for Identifying and Assessing		4.1 TCC Nature Action	126	Required Disclosures
	Material Biodiversity and Ecosystem-Related Impacts,				
	Risks, Dependencies and Opportunities				
DR E4-2	Biodiversity and Ecosystem-Related Policies		4.1 TCC Nature Action	126	This Topic is Not Material
DR E4-3	Biodiversity and Ecosystem-Related Actions and		4.1 TCC Nature Action	126	This Topic is Not Material
	Resources				
DR E4-4	Biodiversity and Ecosystem-Related Targets		4.1 TCC Nature Action	126	This Topic is Not Material
DR E4-5	Impact Indicators Related to Biodiversity and Ecosystem		-		This Topic is Not Material
	Changes				
DR E4-6	Expected Financial Impacts of Material Biodiversity and		-		This Topic is Not Material
	Ecosystem-Related Risks and Opportunities				
ESRS E5 Circular Eco	onomy				
E5 - ESRS 2-IRO-1	Description of processes for identifying and assessing	Co-processing of Renewable Resources	2.3 Resource Recycling	99	Required Disclosures
	impacts, risks and opportunities related to material				
	resource use and circular economy				
DR E5-1	Policies Related to Resource Use and Circular Economy	Low-Carbon Products and Services	2.3 Resource Recycling	99	This Topic is Not Material
DR E5-2	Actions and Resources Related to Resource Use and		2.3 Resource Recycling	99	This Topic is Not Material
	Circular Economy				
DR E5-3	Targets Related to Resource Use and Circular Economy		2.3 Resource Recycling	99	This Topic is Not Material
DR E5-4	Resource Inflow		2.3 Resource Recycling	99	This Topic is Not Material
DR E5-5	Resource Outflow		2.3 Resource Recycling	99	This Topic is Not Material
DR E5-6	Expected Financial Impacts and Impacts, Risks and		-		This Topic is Not Material
	Opportunities Related to Material Resource Use and				
	Circular Economy				

ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	Notes
ESRS S1 Own Workf					
S1 - ESRS 2-SBM-2	Stakeholder Interests and Perspectives	Talent Cultivation and Development	Stakeholder and Material Topic Analysis	197	Required Disclosures
S1 - ESRS 2-SBM-3	Significant Impacts, Risks and Opportunities and Their	Workplace Health and Safety	5.2 Employee Development	163	Required Disclosures
	Interaction with Strategy and Business Model		5.4 Occupational Health and Safety	173	
DR S1-1	Policies Related to Own Workforce		5.2 Employee Development	163	This Topic is Not Material
			5.4 Occupational Health and Safety	173	
DR S1-2	Process of Engaging with Own Workforce and Employees		5.2 Employee Development	163	This Topic is Not Material
	Regarding Impact Statements		5.4 Occupational Health and Safety	173	
DR S1-3	Process for Remedying Negative Impacts and Channels		Stakeholder Engagement		This Topic is Not Material
	for Employees to Raise Concerns				
DR S1-4	Actions Taken to Address Significant Impacts on		Stakeholder and Material Topic Analysis	197	This Topic is Not Material
	Employees, Methods for Managing Significant Risks and				
	Seeking Significant Opportunities Related to Employees,				
	and the Effectiveness of These Actions				
DR S1-5	Targets Related to Managing Significant Negative		Stakeholder and Material Topic Analysis	197	This Topic is Not Material
	Impacts, Advancing Positive Impacts, and Managing				
	Significant Risks and Opportunities				
DR S1-6	Characteristics of Business Entity Employees		6.1 ESG Data Sheet	227,237	This Topic is Not Material
			TCC Key Indicators Social		
DR S1-7	Characteristics of Non-Employee Workers Among the		6.1 ESG Data Sheet	227,237	This Topic is Not Material
	Organization's Workforce		TCC Key Indicators Social		
DR S1-8	Collective Bargaining Reporting and Social Dialogue		5.5 Human Rights Protection	180	This Topic is Not Material
DR S1-9	Diversity Indicators		5.2 Employee Development	163	This Topic is Not Material
DR S1-10	Adequate Wages		5.3 Employee Remuneration and Benefits	169	This Topic is Not Material

ESRS Number	Disclosure Requirements Corr	responding Material Topics	Corresponding Sections	Page Number	Notes
DR S1-11	Social Protection		5.5 Human Rights Protection	180	This Topic is Not Materia
DR S1-12	Persons with Disabilities		5.5 Human Rights Protection	180	This Topic is Not Materia
DR S1-13	Training and Skills Development Indicators		5.1 Climate Action Talents	161	This Topic is Not Materia
			6.1 ESG Data Sheet	227,237	
			TCC Key Indicators Social		
DR S1-14	Health and Safety Indicators		5.4 Occupational Health and Safety	173	This Topic is Not Materia
DR S1-15	Work-Life Balance Indicators		5.3 Employee Remuneration and Benefits	169	This Topic is Not Materia
DR S1-16	Remuneration Indicators		5.3 Employee Remuneration and Benefits	169	This Topic is Not Materia
	(Pay Gap and Total Compensation)				
DR S1-17	Incidents, Complaints and Significant Human Rights		5.5 Human Rights Protection	180	This Topic is Not Materia
	Impacts				
ESRS S2 Employees	in Value Chain				
S2 - ESRS 2 SBM-2	Stakeholder Interests and Perspectives		Stakeholder and Material Topic Analysis	197	Required Disclosures
S2 - ESRS 2 SBM-3	Significant Impacts, Risks and Opportunities and Their		1.7 Supply Chain Management	71	Required Disclosures
	Interactions with Corporate Strategy and Business				
	Model				
DR S2-1	Policies Related to Value Chain Employees		1.7 Supply Chain Management	71	This Topic is Not Materia
			2.2 Low-Carbon Production Management	89	
DR S2-2	Process of Engaging with Value Chain Employees on		Stakeholder and Material Topic Analysis	197	This Topic is Not Materia
	Impacts				
DR S2-3	Process for Remedying Negative Impacts and Channels		Stakeholder Engagement		This Topic is Not Materia
	for Value Chain Employees to Raise Concerns				
DR S2-4	Actions Taken to Address Significant Impacts on Value		1.7 Supply Chain Management	71	This Topic is Not Materia
	Chain Employees, Mitigation of Significant Risks and				
	Opportunities Related to Value Chain Employees, and				
	the Effectiveness of These Actions				
DR S2-5	Targets Related to Managing Significant Negative		6.1 ESG Data Sheet	227,237	This Topic is Not Materia
	Impacts, Advancing Positive Impacts, and Managing		TCC Key Indicators Social		
	Significant Risks and Opportunities				

ESRS Number	Disclosure Requirements	Corresponding Material Topics	s Corresponding Sections	Page Number	Notes
ESRS S3 Affected Commun	ities				
S3 - ESRS 2 SBM-2	Relevant Disclosure Requirements - Stakeholder	Local Inclusion	Stakeholder and Material Topic Analysis	197	Required Disclosures
	Interests and Perspectives				
S3 - ESRS 2 SBM-3	Significant Impacts, Risks and Opportunities and Their		Just Transition	30	Required Disclosures
	Interactions with Corporate Strategy and Business				
	Model				
DR S3-1	Policies Related to Value Chain Employees		Just Transition	30	This Topic is Not Materia
DR S3-2	Process for Engaging with Affected Communities		5.6 Social Engagement Partners	185	This Topic is Not Materia
	Regarding Impacts				
DR S3-3	Process for Remedying Negative Impacts and Channels		Stakeholder Engagement		This Topic is Not Materia
	for Affected Communities to Raise Concerns				
DR S3-4	Actions Taken to Address Significant Impacts on		Just Transition	30	This Topic is Not Materia
	Affected Communities, Management of Significant Risks				
	and Opportunities Related to Affected Communities,				
	and the Effectiveness of These Actions				
DR S3-5	Targets Related to Managing Significant Negative		Just Transition	30	This Topic is Not Materia
	Impacts, Promoting Positive Impacts, and Managing				
	Significant Risks and Opportunities				
ESRS S4 Consumers and Er	nd-users				
S4 - ESRS 2 SBM-2	Stakeholder Interests and Perspectives		Stakeholder and Material Topic Analysis	197	Required Disclosures
S4 - ESRS 2 SBM-3	Significant Impacts, Risks and Opportunities and Their		Stakeholder and Material Topic Analysis	197	Required Disclosures
	Interactions with Corporate Strategy and Business				
	Model				
DR S4-1	Policies Related to Consumers and End-users		1.8 Customer Communication	77	This Topic is Not Materia
DR S4-2	Processes for Engaging with Consumers and End-users		-		This Topic is Not Materia
	on Impacts				
DR S4-3	Processes for Remedying Negative Impacts and		Stakeholder Engagement		This Topic is Not Materia
	Channels for End-users to Raise Concerns				

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Nature

Inclusion

Appendix

ESRS Number	Disclosure Requirements	Corresponding Material Topics	Corresponding Sections	Page Number	r Notes
DR S4-4	Methods for Taking Action on Significant Impacts on		-		This Topic is Not Material
	Consumers and End-users, Managing Significant		-		
	Risks Related to Consumers and End-users, Seeking				
	Significant Opportunities, and the Effectiveness of				
	These Actions				
DR S4-5	Targets Related to Managing Significant Negative				This Topic is Not Material
	Impacts, Advancing Positive Impacts, and Managing				
	Significant Risks and Opportunities				
ESRS G1 Business Conduct					
G1 - ESRS 2-GOV-1	Roles of Administrative, Management	Research,	1.9 Intellectual Property Management	80	Required Disclosures
	and Supervisory Bodies	Development,			
		and Innovation			
G1 - ESRS 2-IRO-1	Description of Process for Identifying and Assessing		1.9 Intellectual Property Management	80	Required Disclosures
	Significant Impacts, Risks and Opportunities				
DR G1-1	Business Conduct and Corporate Culture		1.5 Ethical Management	61	This Topic is Not Material
DR G1-2	Supplier Relation Management		1.7 Supply Chain Management	71	This Topic is Not Material
DR G1-3	Prevention and Detection of Corruption/Bribery		1.5 Ethical Management	61	This Topic is Not Material
DR G1-4	Corruption and Bribery Incidents		1.5 Ethical Management	61	This Topic is Not Material
DR G1-5	Political Influence and Lobbying Activities		6.1 ESG Data	227,237	This Topic is Not Material
			TCC Key Indicators Social		
DR G1-6	Payment Practices		-		This Topic is Not Material



6.6

Third -**Party Assurance Statement**

AA1000 **Assurance Opinion** Statement



Decarbonization





INDEPENDENT ASSURANCE OPINION STATEMENT

Nature

2024 TCC Group Holdings Sustainability Report

The British Standards Institution is independent to TCC Group Holdings (hereafter referred to as TCC in this statement) and has no financial interest in the operation of TCC other than for the assessment and verification of the sustainability statements contained in this report.

This independent assurance opinion statement has been prepared for the stakeholders of TCC only for the purpose of assuring its statements relating to its sustainability report, more particularly described in the Scope below. It was not prepared for any other purpose. The British Standards Institution will not, in providing this independent assurance opinion statement, accept or assume responsibility (legal or otherwise) or accept liability for or in connection with any other purpose for which it may be used, or to any person by whom the independent assurance

This independent assurance opinion statement is prepared on the basis of review by the British Standards Institution. of information presented to it by TCC. The review does not extend beyond such information and is solely based on it. In performing such review, the British Standards Institution has assumed that all such information is complete

Any queries that may arise by virtue of this independent assurance opinion statement or matters relating to it should be addressed to TCC only.

Scope

The scope of engagement agreed upon with TCC includes the followings:

- 1. The assurance scope is consistent with the description of 2024 TCC Group Holdings Sustainability Report.
- 2. The evaluation of the nature and extent of the TCC's adherence to AA1000 AccountAbility Principles (2018) in this report as conducted in accordance with type 1 of AA1000AS v3 sustainability assurance engageme therefore, the information/data disclosed in the report is not verified through the verification process.

This statement was prepared in English and translated into Chinese for reference only.

Opinion Statement

We conclude that the 2024 TCC Group Holdings Sustainability Report provides a fair view of the TCC sustainability programmes and performances during 2024. The sustainability report subject to assurance is free from material misstatement based upon testing within the limitations of the scope of the assurance, the information and data provided by the TCC and the sample taken. We believe that the performance information of Environment, Social and Governance (ESG) are fairly represented. The sustainability performance information disclosed in the report demonstrate TCC's efforts recognized by its stakeholders.

Our work was carried out by a team of sustainability report assurors in accordance with the AA1000AS v3. We planned and performed this part of our work to obtain the necessary information and explanations we considered to provide sufficient evidence that TCC's description of their approach to AA1000AS v3 and their self-declaration in accordance with GRI Standards were fairly stated.

Methodology

Our work was designed to gather evidence on which to base our conclusion. We undertook the following activities:

- a top level review of issues raised by external parties that could be relevant to TCC's policies to provide a check on the appropriateness of statements made in the report.
- discussion with managers on approach to stakeholder engagement. However, we had no direct contact with external stakeholders.
- 52 interviews with staffs involved in sustainability management, report preparation and provision of report information were carried out.
- review of key organizational developments.
- review of the findings of internal audits.
- review of supporting evidence for claims made in the reports.
- an assessment of the organization's reporting and management processes concerning this reporting against the principles of Inclusivity, Materiality, Responsiveness, and Impact as described in the AA1000AP (2018).

Conclusions

A detailed review against the Inclusivity, Materiality, Responsiveness, and Impact of AA1000AP (2018) and GRI Standards is set out below:

Inclusivity

This report has reflected a fact that TCC has continually sought the engagement of its stakeholders and established material sustainability topics, as the participation of stakeholders has been conducted in developing and achieving an accountable and strategic response to sustainability. There are fair reporting and disclosures for the information of Environment, Social and Governance (ESG) in this report, so that appropriate planning and target-setting can be supported. In our professional opinion the report covers the TCC's inclusivity issues.

Materiality

TCC publishes material topics that will substantively influence and impact the assessments, decisions, actions and performance of TCC and its stakeholders. The sustainability information disclosed enables its stakeholders to make informed judgements about the TCC's management and performance. In our professional opinion the report covers the TCC's material issues.

TCC has implemented the practice to respond to the expectations and perceptions of its stakeholders. An Ethical Policy for TCC is developed and continually provides the opportunity to further enhance TCC's responsiveness to stakeholder concerns. Topics that stakeholder concern about have been responded timely. In our professional opinion the report covers the TCC's responsiveness issues.

TCC has identified and fairly represented impacts that were measured and disclosed in probably balanced and effective way. TCC has established processes to monitor, measure, evaluate, and manage impacts that lead to more effective decision-making and results-based management within the organization. In our professional opinion the report covers the TCC's impact issues.

GRI Sustainability Reporting Standards (GRI Standards)

TCC provided us with their self-declaration of in accordance with GRI Standards 2021 (For each material topic covered in the applicable GRI Sector Standard and relevant GRI Topic Standard, comply with all reporting requirements for disclosures). Based on our review, we confirm that sustainable development disclosures with reference to GRI Standards' disclosures are reported, partially reported, or omitted. In our professional opinion the self-declaration covers the TCC's sustainability topics.

Assurance level

The moderate level assurance provided is in accordance with AA1000AS v3 in our review, as defined by the scope and methodology described in this statement

The sustainability report is the responsibility of the TCC's chairman as declared in his responsibility letter. Our responsibility is to provide an independent assurance opinion statement to stakeholders giving our professional opinion based on the scope and methodology described.

Competency and Independence

The assurance team was composed of auditors experienced in relevant sectors, and trained in a range of sustainability, environmental and social standards including AA1000AS, ISO 14001, ISO 45001, ISO 14064, and ISO 9001. BSI is a leading global standards and assessment body founded in 1901. The assurance is carried out in line with the BSI Fair Trading Code of Practice.

For and on behalf of BSI:

Peter Pu. Managing Director BSI Taiwan



...making excellence a habit."

Statement No: SRA-TW-803868

2025-07-21

Taiwan Headquarters: 2nd Floor, No. 37, Ji-Hu Rd., Nei-Hu Dist., Taipei 114, Taiwan, R.O.C.

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6.6

Third Party Assurance Statement

Independent Auditors' Limited Assurance Report

Deloitte.

勤業眾信

勤業眾信聯合會計師事務所 110421 台北市信義區松仁路100號20樓

Deloitte & Touche 20F, Taipei Nan Shan Plaza No. 100, Songren Rd., Xinyi Dist., Taipei 110421, Taiwan

Tel:+886 (2) 2725-9988 Fax:+886 (2) 4051-6888 www.deloitte.com.tw

INDEPENDENT AUDITORS' LIMITED ASSURANCE REPORT

TCC Group Holdings CO., LTD.

We have undertaken a limited assurance engagement on the selected performance indicators in the Sustainability Report ("the Report") of TCC Group Holdings CO., LTD. ("the Company") for the year ended December 31, 2024.

Subject Matter Information and Applicable Criteria

See Appendix 1 for the Company's selected performance indicators ("the Subject Matter Information") and applicable criteria.

Responsibilities of Management

The management of the Company is responsible for the preparation of the Subject Matter Information in accordance with Taiwan Stock Exchange Corporation Rules Governing the Preparation and Filing of Sustainability Reports by TWSE Listed Companies, Universal Standards, Sector Standards and Topic Standards published by the Global Reporting Initiative (GRI), SASB Standards published by the Sustainability Accounting Standards Board (SASB), and the criteria specifically designed by the Company, and for such internal control as management determines is necessary to enable the preparation of the Subject Matter Information that are free from material misstatement resulted from fraud or error.

Auditors' Responsibilities

Our responsibility is to plan and conduct our limited assurance engagement in accordance with International Standard on Assurance Engagements 3000 (Revised) "Assurance Engagements Other Than Audits or Reviews of Historical Financial Information" issued by the International Auditing and Assurance Standards Board to issue a limited assurance report on whether the Subject Matter Information (see Appendix 1) is free from material misstatement. The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement and, therefore, a lower assurance level is obtained than a reasonable assurance.

We based on our professional judgment in the planning and conducting of our work to obtain evidence supporting the limited assurance. Because of the inherent limitations of any internal control, there is an unavoidable risk that even some material misstatements may remain undetected. The procedures we performed include, but not limited to:

Inquiring of management and the personnel responsible for the Subject Matter Information to
obtain an understanding of the policies, procedures, internal control, and information system
relevant to the Subject Matter Information to identify areas where a material misstatement of
the subject matter information is likely to arise.

 Selecting sample items from the Subject Matter Information and performing procedures such as inspection, re-calculation, re-performance, observation, and analytical procedures to obtain evidence supporting limited assurance.

Inherent Limitations

The Subject Matter Information involved non-financial information, which was subject to more inherent limitations than financial information. The information may involve significant judgment, assumptions and interpretations by the management, and the different stakeholders may have different interpretations of such information.

Independence and Quality Control

We have complied with the independence and other ethical requirements of the Norm of Professional Ethics for Certified Public Accountant in the Republic of China, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

The firm applies Standard on Quality Management 1 "Quality Management for Public Accounting Firms" issued by the Accounting Research and Development Foundation of the Republic of China, which requires the firm to design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements.

Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Subject Matter Information is not prepared, in all material respects, in accordance with the applicable criteria.

Other Matters

We shall not be responsible for conducting any further assurance work for any change of the Subject Matter Information or the applicable criteria after the issuance date of this report.

Deloitte & Touche Taipei, Taiwan Republic of China

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August 25, 2025

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

APPENDIX 1

SUMMARY OF SUBJECT MATTER INFORMATION

Ī			Subject Matter Infor	mation		Corresponding Section	Applicable Criteria	
t		Process	Approach		Key Performance	Stakeholder &	GRI 3-1: 2021	
	1	Identify stakeholders	TCC's key stakeholders we through questionnaires con Department heads and rele	npleted by	Identified 10 categories of stakeholders	Material Topic Analysis		
	2	Focus on TCC's Sustainability Issues	Design a list of sustainabili reference to international st development trends and int sustainability rating standar	ity issues with ustainable ternational	25 sustainability issues cover corporate governance, economy, environment, and people and human rights			
	3	Assess the Impact of Sustainability Issues on the Economy, Environment, People, and Human Rights	Conducted a materiality as workshop, inviting executive President level and above to and potential positive and r impacts. Additionally, depidistributed questionnaires texternal stakeholders to un- level of impact on each issa	ves at Vice to identify actual negative artments to internal and derstand the	337 questionnaires collected		,	
	4	Assess the Impacts of Sustainability issues on Operation	Members of the Corporate Sustainable Development Committee, along with operation Members of the Corporate Sustainable Development Committee, along with operation Sustainability issues on operations. They deter-mined the significance of each issue based on its severity and likelihood of its potential positive and negative impacts on TCC's operations. Summarize internal/external survey results, map double materiality matrix, link issues and TCC sustainability strategies, and decide material topics for 2024. Submit the 12 material topics identified to		8 VP-level and above supervisors discussed at management meeting			
	5	Double Materiality Assessment			Corporate Sustainable Development Committee			
	6	Determine Material Topics			Submitted to the Board of Directors compliance of in sustainability and integrity			
j	Proc	curement Percentage in 20	24			1.7 Supply Chain	GRI 204-1: 2016	
			Taiwan I	Mainland China	Taiwan & Mainland China	Management	Proportion of spendin on local suppliers	
I	Loc	al Procurement	86.31%	99.99%	93.74%			

	Subject M	atter Information		Corresponding Section	Applicable Criteria	
Er	nergy Use in 2024			6.1 ESG Data Sheet	GRI 302-1: 2016	
	nergy Usage In terms of Gigajoule (GJ)		2024		Energy consumption	
	0,	Taiwan	10,806,676	1	within the organization	
C	oal	Mainland China	53,561,704	1		
1	VIII	Subtotal	64,368,380	1		
╟		Taiwan	168,288	1		
D	iesel	Mainland China	410,714	1		
1		Subtotal	579,002			
⊩	Gasoline	Taiwan	22,637	1		
G		Mainland China	9,837	1		
~		Subtotal	32,474	1		
⊩	Purchased Electricity	Taiwan	1,528,627	1		
P		Mainland China	7,097,867	1		
1		Subtotal	8,626,494	1		
	Power Generation by Waste Heat Recovery	Taiwan	286,155			
Po		Mainland China	3,088,559			
100		Subtotal	3,374,715			
	Natural Gas	Taiwan	320			
N		Mainland China	0			
		Subtotal	320			
		Taiwan	1,724,940			
A	Iternative Fuel	Mainland China	13,131,664			
		Subtotal	14,856,604			
		Taiwan	21,010			
R	enewable Energy	Mainland China	229,521			
		Subtotal	250,530			

= 269

ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

1	Subject Matter		Corresponding Section	Applicable Crite	
H			Unit: Million Liters	6.1 ESG Data Sheet	GRI 303-3: 2018
Ē	Items		2024		Water withdrawal
ľ	Water Wi				
ľ	-acce see see vivi week	Taiwan	282		
ŀ	Third-Party Water - Municipal Water	Mainland China	539		
l.	19 mil 19	Subtotal	821		
ľ	AND THE PROPERTY OF THE PROPER	Taiwan	1,086		
ľ	Third-Party Water - Industrial Water	Mainland China	586 1,672		
ŀ		Subtotal	1,672		
Į.	Surface Water - Rivers	Taiwan Mainland China	10,925		
ľ	Surface Water - Rivers	Subtotal	10,938		
ŀ		Taiwan	10,000		
ļ	Surface Water - Mines	Mainland China	94		
ľ	Surface Water States	Subtotal	94		
ŀ		Taiwan			
ŀ	Surface Water - Lakes	Mainland China	137		
ľ		Subtotal	137		
ľ		Taiwan	37		
ŀ	Surface Water - Rainwater/Spring Water	Mainland China	967		
ľ		Subtotal	1,004		
ſ	201 200 00	Taiwan	1,460		
ŀ	Groundwater	Mainland China	263		
Į.		Subtotal	1,723		
ľ	and the same of th	Taiwan China	0		
ľ	Seawater	Mainland China	0		
ŀ		Subtotal	89		
Į.	nt t two the two	Taiwan Mainland China	69		
ľ	Discharged Reclaimed Water	Subtotal	89		
ŀ		Taiwan	2,968		
ŀ	51	Mainland China	13,510		
ľ	Total	Subtotal	16,478		
	Items Water Withdrawal	2024			
ŀ	Taiwan				
ΙF		-			
Œ	Mainland China	1,718			
1	Mainland China Subtotal	1,718	rannan navrono		
ŀ	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in	1,718 ng the WRI Aqueduct Water R a areas with high water stress, v	isk Atlas. Some while the remaining		
1	Mainland China Subtotal Note 1: TCC assesses future water availability usin focations in Mainland China are situated in sites are not located in water-stressed region	1,718 In the WRI Aqueduct Water R In areas with high water stress, was.	while the remaining	6.1 ESG Data Sheet	GRI 303-4: 2018
1	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in	1,718 In the WRI Aqueduct Water R In areas with high water stress, was.	while the remaining Unit: Million Liters	6.1 ESG Data Sheet	GRI 303-4: 2018 Water discharge
1	Mainland China Subtotal Subtotal Subtotal TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use	1,718 ng the WRI Aqueduct Water R areas with high water stress, was.	while the remaining	6.1 ESG Data Sheet	
1	Mainland China Subtotal Note I: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use	1,718 In the WRI Aqueduct Water R In areas with high water stress, v In the writer is the stress of the stress	Unit: Million Liters 2024	6.1 ESG Data Sheet	
Y	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di	1,718 g the WRI Aqueduct Water R a areas with high water stress, v sns. ischarge Taiwan	Unit: Million Liters 2024 464	6.1 ESG Data Sheet	
Y	Mainland China Subtotal Subtotal Subtotal TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use	1,718 In the WRI Aqueduct Water R areas with high water stress, vans. Is the water stress, vans. I Taiwan Mainland China	Unit: Million Liters 2024 464 0	6.1 ESG Data Sheet	
1	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di	1,718 g the WRI Aqueduct Water R areas with high water stress, sons. Taiwan Maintand China Subtotal	Unit: Million Liters 2024 464 0 464	6.1 ESG Data Sheet	
7 T	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water	1,718 g the WRI Aqueduct Water R areas with high water stress, vns. ischarge Taiwan Mainland China Subtotal Taiwan	Unit: Million Liters 2024 464 0 464 0	6.1 ESG Data Sheet	
7 T	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di	1,718 g the WRI Aqueduct Water R a areas with high water stress, v ns. Taiwan Mainland China Subtotal Taiwan Mainland China	Unit: Million Liters 2024 464 0 464 0 0	6.1 ESG Data Sheet	
7 T	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water	1,718 g the WII Aqueduct Water R areas with high water stress, v nrs. ischange Taiwan Maintand China Subtotal Taiwan Mainfand China Subtotal Subtotal Subtotal Subtotal Subtotal	Unit: Million Liters 2024 464 0 0 464 0 0 0	6.1 ESG Data Sheet	
V 1	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 gthe WRI Aqueduct Water R, areas with high water stress, v. nrs. Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Taiwan	Unit: Million Liters 2024 464 0 464 0 0 0 0 0	6.1 ESG Data Sheet	
V 1	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water	1,718 ag the WIA (Author) gain the WIA (Author) gain the WIA (Author) gain the WIA (Author) gain was a season with high water stress, vins. I Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 0 0 0	6.1 ESG Data Sheet	
V 1	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 gt he WRI Aqueduct Water R areas with high water stress, vns. scharge Taiwan Mainland China Subtotal Taiwan Mainland China Taiwan Mainland China Subtotal Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 0 0 0	6.1 ESG Data Sheet	
V II	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 og the WIA (AUREN Rayers av verses vitth high water stress, vins. ischange Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Taiwan Mainland China	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 0 0 0	6.1 ESG Data Sheet	
N I	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 ag the WRI Aqued Water R areas with high water stress, vns. ischarge Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Taiwan Taiwan Taiwan Taiwan Taiwan Taiwan Taiwan	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 30	6.1 ESG Data Sheet	
N I	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 gthe WRI Aqueduct Water R areas with high water stress, vns. ischarge Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China Subtotal Taiwan Mainland China	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 1 118 148	6.1 ESG Data Sheet	
V III	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater	1,718 gg the WRI Aqueduct Water R areas with high water stress, vns. Sischarge Taiwan Mainland China Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
V 1	Mainland China Subbotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater Seawater Third-Party Water	1,718 gthe WRI Aqueduct Water R areas with high water stress, vns. ischarge Taiwan Maintand China Subtotal Taiwan	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 1 118 148	6.1 ESG Data Sheet	
N V	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater Seawater Third-Party Water	g the WRI Aqueduct Water R areas with high water stress, v nrs. Taiwan Mainland China Subtotal Subtotal Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
N I	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater Seawater Third-Party Water Total Water Resource Use in Water-Stressed Areas	1,718 ag the WIR (April 2008)	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
N I	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Di Surface Water Groundwater Seawater Third-Party Water Total Water Resource Use in Water-Stressed Areas Items	g the WRI Aqueduct Water R areas with high water stress, v nrs. Taiwan Mainland China Subtotal Subtotal Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
N III	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Hems Water Dis Surface Water Groundwater Groundwater Third-Party Water Total Water Resource Use in Water-Stressed Areas Hems Water Discharge	I,718 get he WIA (apedet Water R areas with high water stress, vns. ischarge Taiwan Mainland China Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
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N III	Mainland China Subtotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed regio Water Resource Use Items Water Discharge Groundwater Groundwater Third-Party Water Total Water Resource Use in Water-Stressed Areas Items Water Discharge Taiwan Mainland China	I,718 get he WIA (apedet Water R areas with high water stress, vns. ischarge Taiwan Mainland China Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494	6.1 ESG Data Sheet	
N III	Mainland China Subbotal Note 1: TCC assesses future water availability usin locations in Mainland China are situated in sites are not located in water-stressed region water Resource Use Items Water Discharge Water Discharge Total Water Resource Use in Water-Stressed Areas Items Water Discharge Taiwan	g the WRI Aqueduct Water R areas with high water stress, v ns. ischarge Taiwan Maintand China Subtotal Taiwan Mainland China Subtotal	Unit: Million Liters 2024 464 0 464 0 0 0 0 0 0 1 118 148 494 118 612	6.1 ESG Data Sheet	

		Subject M	Corresponding Section	Applicable Criteria		
	Air Pollutant Emissions				6.1 ESG Data Sheet	GRI 305-7: 2016
. [ZIII Z OHIMMIT EDINOVIVIO		Mario Caraco Valorico Para Caraco	Nitrogen oxides (NOx),		
- 1	Items	Un	it Site	2024	Ì	sulfur oxides (SOx), an
	NOx	Metric ton	Taiwan	4,481		other significant air
	100000	- NEWSTREET, 1977	Mainland China	4,740		emissions
Ш			Subtotal	9,221		
	SOx Metri		Taiwan	58		
Ш			Mainland China 1,057			
Ш			Subtotal	1,115		
Ш	Particulate Matter	Metric ton	Taiwan	182		
			Mainland China	466		
			Subtotal	648		
1	VOC/THC	Metric ton	Taiwan	0.0043		
	No.		Mainland China	0.0113		
			Subtotal	0.0157		
	PCDD/F	g I-TEQ	Taiwan	0.0505		
			Mainland China	0.00000024		
			Subtotal rect measurement or based on sp	0.0505		
	Hexavalent Chromiun Premises." These incl Industrial Processes, a Hexavalent Chromiun control efficiencies, au	n, and Dioxins from ude Appendix 1: En and Appendix 3: Em n, and Dioxins from and other measurement	Pollutants, Lead, Cadmium, Mer Stationary Pollution Sources in ission Factors for Particulate Po- ission Factors for Lead, Cadmiu Industrial Processes, as well as int regulations for volatile organi	Public and Private illutants from m, Mercury, Arsenic, emission factors, c compounds		
	Hexavalent Chromiun Premises." These incl Industrial Processes, a Hexavalent Chromiun control efficiencies, au	n, and Dioxins from ude Appendix 1: En and Appendix 3: Em n, and Dioxins from nd other measureme c (including equipment	Stationary Pollution Sources in ission Factors for Particulate Po- ission Factors for Lead, Cadmiu Industrial Processes, as well as int regulations for volatile organi- int components), as specified for	reury, Arsenic, Public and Private Illutants from m, Mercury, Arsenic, emission factors, c compounds		
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	Hexavalent Chromiun Premises." These inch Industrial Processes, a Hexavalent Chromiun control efficiencies, as (VOCs), process units pollution control fees The nature of operatio therefore, no air pollution	n, and Dioxins from ude Appendix 1: En ind Appendix 3: Em n, and Dioxins from nd other measureme (including equipme for stationary pollut was at product plants tant emissions are g-	Stationary Pollution Sources in ission Factors for Particulate Po- ission Factors for Lead, Cadmiu Industrial Processes, as well as- nt regulations for volatile organi ent components), as specified for ion sources.	cury, Arsenic, Public and Private illutants from m, Mercury, Arsenic, emission factors, c compounds the declaration of air g and transportation;		
	Hexavalent Chromium Premises." These incl. Industrial Processes, a Hexavalent Chromium control efficiencies, as (VOCs), process units pollution control fees. The nature of operation therefore, no air pollute Emissions of mercury starting from 2024. In 2024, additional he thallium, eadmium, le Taiwan and Mainland.	n, and Dioxins from und Appendix 1: Fin and Appendix 3: Em and Appendix 3: Em and Appendix 3: Em and Appendix 3: Em and Appendix 4: Em and Appendix 6: Em and Appendi	Stationary Pollution Sources in ission Factors for Particulate Po- lission Factors for Lead, Cadmiu Industrial Processes, as well as in regulations for volatile organi nt components), as specified for ion sources. involves cement product mixing merated. (PCDD/Fs) from Mainland Chi were recorded. For Heavy Met- re compounds), emissions totaled fectals 2 (HMZ, including berylic (Let, vandaum, and their compo-	reury, Arsenic, Public and Private Illutants from m, Mercury, Arsenic, emission factors, c compounds the declaration of air and transportation; na are disclosed ls 1 (HM1, including 0.7424 metric tons in um, chromium, tin,		
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	Hexavalent Chromium Premises." These incl. Industrial Processes, a Hexavalent Chromium control efficiencies, at (VOCs), process units pollution control fees. The nature of operation therefore, no air pollution control fees. Emissions of mercury starting from 2024. In 2024, additional hethallium, eadmium, le Taiwan and Mainland antimony, copper, cobtoned 1.3715 metric. In 2024, the newly adutons of hydrogen chlosummonia, and 16.75 n	n, and Dioxins from und Appendix 1: En and Appendix 3: Em and Appendix 4: Em and Appendix	Stationary Pollution Sources in issiston Factors for Particulate Po- lission Factors for Particulate Po- lission Factors for Lead, Cadmiu Industrial Processes, as well as an tregulations for volatile organi nt on sources. involves cement product mixing-	reury, Arsenic, Public and Private Illutants from m, Mercury, Arsenic, emission factors, e compounds the declaration of air g and transportation; na are disclosed als 1 (HM1, including 0.7424 metric tons in um, chromium, tin, nds), emissions tuorides, 33.51 metric tetric tons of Unit: Metric Tor 2024		
	Hexavalent Chromium Premises." These inch Industrial Processes, a Hexavalent Chromium control efficiencies, as (VOCs), process units pollution control fees. The nature of operation therefore, no air pollution of the process of the	n, and Dioxins from und Appendix 1: Fin and Appendix 2: Em and Appendix 3: Em and Appendix 3: Em and Appendix 3: Em and Appendix 3: Em and Appendix 4: Em and Appendi	Stationary Pollution Sources in issiston Factors for Particulate Po- lission Factors for Particulate Po- lission Factors for Lead, Cadmiu Industrial Processes, as well as in regulations for volatile organi not components), as specified for ion sources. involves cement product mixing merated. (PCDD/Fs) from Mainland Chi- were recorded. For Heavy Met- er compounds), emissions totaled fectals 2 (HMZ, including berylic (Let, vanadium, and their compound Mainland China. included 22.17 metric tons of files of hydrogen fluoride, 115.93 regamic carbon.	reury, Arsenic, Public and Private Illutants from m, Mercury, Arsenic, emission factors, e compounds the declaration of air and transportation; and transportation in transpor		

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ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

#			Sul	ject Matter	Informat	ion			Corresponding Section	Applicable Criteria
3.	2024 Occupa	tional Injury	Statistics						6.1 ESG Data Sheet	GRI 403-9; 2018 Work-related injuries
- 1	Work-related									
П		Oc	cupational Acc			Rate of	Rate of			
	Sites	Fatalities	Number of High- consequence Work-relate d Injuries	Number of Recordable Work- related Injuries	Fatality Rate	High- consequence Work-relate d Injuries	Recordable Work- related Injuries (TRIFR)	Working Hours		
П	Taiwan	0	0	- 4	0	0.00	1.18	3,385,334		
1	Mainland									
- 1	China	0	1	14	0	0.07	1.01	13,865,459		
1	Subtotal	0	1	18	0	0.06	1.04	17,250,792		
	Work-related	Injuriae of	Contractors							
	work-related		cupational Ac	cidents		Rate of	Rate of			
	Sites	Fatalities	Number of High- consequence Work-relate d Injuries	Number of Recordable Work- related Injuries	Fatality Rate	High- consequence Work-relate d Injuries	Recordable Work- related Injuries (TRIFR)	Actual Working Hours		
П	Taiwan	1	0	4	0.52	0.00	2.08	1,919,376		
	Mainland						WALLEY IN .	Total Company		
	China	3	0	5	2.28	0.00	3.80	1,314,128		
П	Subtotal	4	0	9	1.24	0.00	2.78	3,233,504		
	statistics The mai Fatality Rate of Injuries Rate of Actual V Some ac	reported by n types of o Rate = (Nur High-consec Total Actua Recordable Vorking Ho	each plant. ccupational in mber of Fatalit quence Work-r il Working Ho Work-related i urs) x 1,000,00 g hours are est	juries include ies/Total Activelated Injurie urs) x 1,000,0 Injuries = (Nu imated by mu f occupationa	entangle aal Work s = (Num 00. unber of altiplying I diseases	on monthly o ment, impact, ing Hours) x 1 ther of High-co Recordable Wo the number of at TCC's Taiv in occupational	falling, and c ,000,000. onsequence V ork-related In centrics by 8 van plants. H	uts. Vork-related ujuries/Total hours. owever, at	6.3 Global Reporting	GRI 403-10: 2018 Work-related ill healtl
	hearing impa			5		- A		Metric Tons	Initiative Index	SASB EM-CM-000.A
0.					-	Talama		Metric Tons and China	6.2 Sustainability	Production by major
		Produ	act Category			Taiwan 4,224,284		13,238	Disclosure for the	product line
	Clinker				-				Listed Cement	product into
	Cement				_	4,323,185		66,352 18,605	Companies	
	Cementitious				_	4,598,399	31,8		Companios	
	280 specifica				-	6,262,643	_		-	
	350 specifica				-	2,062,133 1,167,822		-		
	420 specification concrete							-		
	420 specifica Concrete sub		ic		_	9,492,597				

#	Subject Matter Informa	tion	Corresponding Section	Applicable Criteria
11	Number of Significant Suppliers in 2024		6.1 ESG Data Sheet	Specifically designed
	Items	Taiwan and Mainland China		indicator 1:
	Total number of Tier-1 suppliers	2,644		200 000 270 000 270 000 000 000
	Total number of significant suppliers in Tier-1	251		Supplier Screening
	Total number of significant suppliers in non Tier-1	45		Process 2024: Total
	Total number of significant suppliers	296		number of Tier-1
	Note 1: The scope covers cement business in Taiwan and Mai			suppliers. Total number and Share of significant suppliers in Tier-I, Total number of significant suppliers in Tier-I, Total number of significant suppliers in non Tier-I, Total number of significant suppliers. Tier-I suppliers: Suppliers who engaged in direct transactions with the company in 2024. Significant suppliers in Tier-I: Suppliers who engaged in direct transactions with the company in 2024, and who have a significant impact on the quality and delivery of the company's products, or whose procurement amount meets a certain threshold or proportion, or who pose a high ESG risk. Significant suppliers in non Tier-I: Suppliers of tier-I suppliers or Tier-I suppliers on circuial to product quality and delivery, meets specific procurement amount or ratio, or poses a high ESG risk, requiring management and evaluation.

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ESG Data — Sustainability Disclosure for the Listed Cement Companies — Global Reporting Initiative Index — SASB Index — ESRS Index — Third-Party Assurance Statement

Subject Matter Information		Corresponding Section	Applicable Criteria
Supplier Assessment Performance and Goals for 2024		6.1 ESG Data Sheet	Specifically designed
	FY 2024		indicator 2:
Total number of suppliers assessed (via desk assessments/on-site assessments)	275	1	Supplier evaluation
	1.1	-	process: The number of
		-	suppliers reviewed in
	- 2	-	2024, the number of
Supplier corrective plan performance and targets Tatal number of campliars with substantial actual/potential negative impacts	14	-	suppliers with whom
expected to be supported in corrective action plan implementation	. 6.6.		cooperation was
Total number of suppliers supported in corrective action plan implementation	12	1	terminated, and the number of suppliers
Performance and goals of suppliers capacity building programs			identified as having
Total number of suppliers in capacity building programs	262		potential/actual
No. 1. The annual has been in Toisson and Mainland China			significant negative
Note 1: The scope covers cement business in Taiwan and Mainland China			impact. Suppliers with potential/actual significant negative impact: Suppliers identified based on internal assessments as having significant actual or potential ESG negative impacts.
		6.1 ESG Data Sheet	Specifically designed indicator 3:
			Number of Suppliers Improved: The number of suppliers impacts in 2024 who received support for improvement plans, amplemented improvement plans, amplemented improvement plans, amplemented improvement plans, and participated in capacity-building programs. Suppliers Receiving Improvement Plans Support: Suppliers who responded to the company's improvement Plans Support: Suppliers who responded to the company's improvement Plans: Suppliers who received their willingness to participate. Suppliers Implementing Improvement Plans: Suppliers who received the company's improvement recommendations and underwent subsequent follow-up. Suppliers in Capacity-Building Programs: Suppliers who responded to the company's carabon questionnaire or participated in
	Supplier Assessment Performance and Goals for 20.24 Supplier Assessment Total number of suppliers assessed (via desk assessments/on-site assessments) Results Number of suppliers assessed with substantial actual/potential negative impacts Number of suppliers that were terminated Supplier corrective plan performance and targets Total number of suppliers with substantial actual/potential negative impacts expected to be supported in corrective action plan implementation Total number of suppliers supported in corrective action plan implementation Performance and goals of suppliers capacity building programs Total number of suppliers in capacity building programs Note 1: The scope covers cement business in Taiwan and Mainland China	Supplier Assessment Performance and Goals for 2024 Supplier Assessment Total number of suppliers assessed (via desk assessments/on-site assessments) Results Number of suppliers assessed with substantial actual/potential negative impacts Number of suppliers that were terminated 2 Supplier corrective plan performance and targets Total number of suppliers with substantial actual/potential negative impacts 14 expected to be supported in corrective action plan implementation Total number of suppliers supported in corrective action plan implementation Total number of suppliers supported in corrective action plan implementation Total number of suppliers in capacity building programs Total number of suppliers in capacity building programs 262 Note 1: The scope covers cement business in Taiwan and Mainland China	Supplier Assessment Performance and Goals for 2024 Supplier Assessment Performance and Goals for 2024 Total number of suppliers assessed (via desk assessments/on-site assessments) Results Number of suppliers assessed with substantial actual/potential negative impacts 14 Number of suppliers with substantial actual/potential negative impacts Total number of suppliers with substantial actual/potential negative impacts 14 Supplier corrective plan performance and targets Total number of suppliers with substantial actual/potential negative impacts 15 Total number of suppliers supported in corrective action plan implementation Total number of suppliers supported in corrective action plan implementation Total number of suppliers in capacity building programs Total number of suppliers in capacity building programs

Subject Matter Information Air Pollutant Emissions Unit: Metric Ton				Corresponding Section	Applicable Criteria
				6.1 ESG Data Sheet	Specifically designed indicator 4:
Items	Unit	Site	2024		
Mercury Emissions (Hg)	Metric ton	Taiwan	0.1729	-	Mercury Emissions in 2024
		Mainland China	0.2058		
		Subtotal	0.3787		
Hexavalent Chromium, Premises," These includ Industrial Processes, and Hexavalent Chromium, control efficiencies, and (VOCs), process units (i pollution control fees for pollution control fees for therefore, no air pollutar Emissions of mercury, d starting from 2024. In 2024, additional heav thallium, cadmium, lead Taiwan and Mainland C antimony, copper, cobal totaled 1.3715 metric tot	and Dioxins from State Appendix 1: Emissic Appendix 2: Emissic and Dioxins from Indi other measurement re- neluding equipment or stationary pollution s at product plants invo- t emissions are genera- ioxins, and furans (PC y metal emissions wer arsenic, and their cor hima. For Heavy Meta t, manganese, nickel, ts in Taiwan and Mair d disclosure scope inc	olves cement product mixing tted. IDD/Fs) from Mainland Ch er recorded, For Henry Met, mpounds), emissions totaled is 2 (HM2, including beryll arandama, and their compost land China. tuded 22,17 metric tons of f	Public and Private blutants from m, Mercury, Arsenic, emission factors, is compounds the declaration of air g and transportation; ina are disclosed als 1 (HM1, including 10.7424 metric tons in ium, chromium, tin, inds), emissions		

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