

SD Index

Economic Performance

SD Index - Economic Performance					GRI Standards
Index	Unit	2023	2022	2021	
Sales					
Net sales	Million baht	42,218	50,126	41,678	GRI 201-1
Input factor (cost of all goods, materials and services)	Million baht	29,035	37,398	28,272	GRI 201-1
Depreciation and amortisation	Million baht	3,410	3,728	3,893	GRI 201-1
Value Creation					
Benefit to employees	Million baht	5,410	4,824	4,255	GRI 201-1
Benefit to government (taxes)	Million baht	559	712	761	GRI 201-1
Benefit to shareholders	Million baht	2,086	2,682	2,682	GRI 201-1
Benefit to creditors	Million baht	1,299	1,090	1,238	
Retained in business	Million baht	419	-308	778	
Suppliers					
% of new suppliers screened with environmental and social criteria	%	97	70	70	GRI 308-1/ GRI 414-1
Government Relations					
Political contributions	Million baht	0	0	0	
Government subsidies received	Million baht	0	0	0	
Customer Relations					
Customer satisfaction surveys conducted		YES	YES	YES	

Remark

Since 2021, SD data started its reporting as a Group Company (including ChipChip Mong INSEE Corporation 40 percent shared equity)

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Social Performance

SD Index - Social Performance					GRI Standards
Index	Unit	2023	2022	2021	
Number of employees	Person	4,485	4,956	4,848	GRI 102-8
Proportion of employees by level					
Top & senior management	%	6.13	5.56	5.28	
Middle level management	%	57.52	54.41	51.90	
Other employees	%	36.34	40.03	42.82	
Portion of female employees by level					
Top & senior management	%	20.39	15.79	20.38	GRI 102-8
Middle level management	%	23.30	20.82	22.13	GRI 102-8
Other employees	%	4.70	5.07	5.12	GRI 102-8
Ratio of female to male salary					
Top & senior management	%	0.28	0.15	0.19	GRI 405-2
Middle level management	%	0.32	0.27	0.26	GRI 405-2
Other employees	%	0.05	0.06	0.07	GRI 405-2
Portion of local employees	%	99.03	98.53	98.05	
Total number of new employees	Person	366	700	432	GRI 401-1
Employee turnover	%	19.94	12.13	11.35	
Employee satisfaction survey conducted (% Target score/% Actual score)		YES (80/75)	YES (80/70)	YES (80/51)	
Training					
Target training hours per employee	Hours	20.00	N/A	N/A	
Average hours of training per employee	Hours	35.95	33.03	18.76	GRI 403-2
Occupational Health and Safety					
Number of fatalities (employees, contractors and third-party)	Case	2	1	1	
Lost time injury frequency rate (employees and contractors per million man-hours)	Number	0.11	0.25	0.25	
Community Involvement					
Donations, CSR and community spending	Million baht	35.7	41.6	51.0	GRI 203-1/ GRI 413
Stakeholder Engagement					
Needs assessments		YES	YES	YES	GRI 413-1
Stakeholder Engagement in CSR planning		YES	YES	YES	
Stakeholder dialogues		YES	YES	YES	
Community advisory panels		YES	YES	YES	

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Environmental Performance

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Index	Unit	2023	2022	2021	
Materials Used					
Non-renewable materials used	Million tonnes	23.4	23.2	22.9	GRI 301-1
Renewable materials used	Million tonnes	1	1.3	1.9	GRI 301-1
Environmental Investments and Compliance					
Total environmental protection expenditures and investments *	Million baht	60.6	67.0	47.8	GRI 307-1
Non-compliance cases	Number of case	0	0	0	GRI 307-1
Significant fines for non-compliance with environmental laws	Million baht	0	0	0	GRI 307-1
Energy					
Total energy consumption within the organization	MJ/tonne clinker	3,582	3,363	3,256	GRI 302-3
Total electricity consumption	kWh/tonne cement	88.80	89.38	87.1	GRI 302-3
Alternative fuel thermal substitution rate	%	21.10	15.93	11.6	
Total alternative fuel consumption	tonnes	522,970	429,502	354,505	
Renewable electricity consumption	%	22.60	22.05	19.5	
CO₂ Emissions					
Gross direct (Scope 1) GHG emission	Million tonnes CO ₂	10.1	11.03	10.95	GRI 305-1
Specific net CO ₂ emissions	kg CO ₂ /tonne cementitious material	603	606.95	616	
Clinker factor	%	72.1	74.29	74.4	
Other Atmospheric Emissions					
NO _x	grams/tonne cementitious material	676	842.43	853	GRI 305-7
SO ₂	grams/tonne cementitious material	74	74.11	49	GRI 305-7
Particulate matter	grams/tonne cementitious material	47	45.29	37	GRI 305-7
Water					
Total water withdrawal	Megaliters	4,771	5,128	5,393	GRI 303-3
Surface water withdrawal	Megaliters	1,829	2,071	1,945	GRI 303-3
Groundwater withdrawal	Megaliters	2,644	2,669	3,047	GRI 303-3
Third-party water withdrawal	Megaliters	298	388	401	GRI 303-3
Specific water consumption	litre/tonne cement product	260	238**	264	

Remark

Since 2021, SD data started its reporting as a Group Company (including Chip Mong INSEE Corporation 40 percent shared equity) In 2023, carbon emission footprint is verified by third party in the scope of cement TH.

* Thailand cement business only

** The number was recalculated and replaced disclosed data in 2022 SD Report

GCCA index				
Index	Unit	2023	2022	2021
Production				
Cement production	Mt/yr	15,110,843	17,711,988	16,980,690
Cementitious products	Mt/yr	15,832,451	17,496,547	17,325,828
Clinker production	Mt/yr	11,621,924	12,943,451	12,976,952
Specific heat consumption for clinker production	MJ/tonne clinker	3,582	3,363	3,256
Alternative and biomass fuel thermal substitution rate	%	21.10	15.9	11.6
Alternative fuel rate (kiln fuels)	%	17.30	11.5	8.0
Biomass fuel rate (kiln fuels)	%	3.80	4.4	3.6
Clinker/cement factor	%	72.10	74.3	74.4
SEEC	kWh/tonne cement product	88.8	89.4	87.1
Material used				
Alternative fuel and biomass fuel	t/y	522,970	429,502	354,505
Alternative Raw Materials rate (% ARM)	%	6.20	7.0	6.6
Slag	t/y	403,469	637,088	505,653
Fly ash	t/y	379,937	428,894	356,346
Total mineral component for cement produced	t/y	4,210,471	4,553,096	4,348,876
CO₂ emission scope 1				
Absolute CO ₂ emissions - gross	Mt/yr	10,111,354	11,029,884	10,950,711
Absolute CO ₂ emissions - net	Mt/yr	9,539,414	10,619,529	10,671,661
Specific CO ₂ emissions - gross	kg/tonne cementitious material	639	630	632
Specific CO ₂ emissions - net	kg/tonne cementitious material	603	607	616
CO₂ emission scope 2				
Specific CO ₂ emissions - net	kg/tonne cementitious material	39	41	42
Specific CO ₂ emissions - net	kg/tonne cement product	40	40	43

GCCA index				
Index	Unit	2023	2022	2021
Other atmospheric emissions				
Overall coverage rate	%	98	95	95
Coverage rate continuous measurement	%	97	99	99
PM emission	ton	742	792	634
NO _x emission	ton	10,696	14,740	14,781
SO ₂ emission	ton	1,165	1,297	848
VOC/THC emission	ton	458	390	339
Hg emission	kg	538	343	217
HM1 emission	kg	517	304	46
HM2 emission	kg	3,425	2,198	1,310
PCDD/F emission	mg	1,046	2,094	1,253
Specific emission of PM	g / ton clinker	64	61	49
Specific emission of NO _x	g / ton clinker	920	1,139	1,139
Specific emission of SO ₂	g / ton clinker	100	100	65
Specific emission of VOC/THC	g / ton clinker	39	30	26
Specific emission of Hg	mg / ton clinker	46	27	17
Specific emission of HM1	mg / ton clinker	44	24	4
Specific emission of HM2	mg / ton clinker	295	170	101
Specific emission of PCDD/F	ng / ton clinker	90	162	97
PM coverage rate	%	97	99	99
NO _x coverage rate	%	97	99	99
SO ₂ coverage rate	%	97	99	99
VOC/THC coverage rate	%	100	95	95
Hg coverage rate	%	100	95	95
HM1 coverage rate	%	95	95	95
HM2 coverage rate	%	100	95	95
PCDD/F coverage rate	%	100	95	95

GCCA index				
Index	Unit	2023	2022	2021
Water				
Total water withdrawal	Megaliters	4,771	5,128	5,393
Surface water withdrawal	Megaliters	1,829	2,071	1,945
Groundwater withdrawal	Megaliters	2,644	2,669	3,047
Third-party water withdrawal	Megaliters	298	388	401
Water consumption	Megaliters	3,922	4,222	4,486
Amount of water consumption per unit of product	litre/tonne of cementitious product	248	241	259
Biodiversity				
Percentage (%) of quarries with high biodiversity value where biodiversity management plan is implemented	%	100	100	100
Percentage (%) of quarries where rehabilitation plan is implemented	%	100	100	0
Safety				
Fatality Rate (directly employed)	Number	0.09	0	0
Number of fatalities (directly employed, contractors, sub-contractors, third parties)	Number	2	1	1
LTI Frequency Rate (directly employed)	Number	0.09	0.23	0.28
LTI Frequency Rate (contractors and sub-contractors on site)	Number	0.12	0.26	0.25
LTI Severity Rate (directly employed)	Number	0.18	3.28	0.31

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