

SD Data

Economic Performance

SD Index - Economic Performance				
	GRI*	2018	2017	2016
Sales (in million baht)				
Net sales	EC1	44,764	43,634	34,192
Input factor (cost of all goods, materials and services)	EC1	31,089	31,303	22,552
Depreciation and amortisation	EC1	3,268	2,964	1,929
Value Creation (in million baht)				
Benefit to employees	EC1	5,066	4,986	4,088
Benefit to government (taxes)	EC1	569	852	979
Benefit to shareholders	EC1	2,384	3,398	3,450
Benefit to creditors	EC1	1,350	1,295	730
Retained in business	EC1	1,037	-1,166	464
Sustainable Products (%)				
Cement products containing mineral components	EN2	0.7	1.0	0.9
Suppliers (%)				
Suppliers screened (OH&S, labour standards, legal compliance, environmental standards, as percentage of spending)	HR1	99	99	99
Government Relations (in million baht)				
Political contributions	SO6	0	0	0
Government subsidies received	EC4	0	0	0
Customer Relations				
Customer satisfaction surveys conducted	PR5	YES	YES	YES

* Refer to GRI standard G4

SD Data

Environmental Performance

SD Index - Environmental Performance				
	GRI*	2018	2017	2016
Materials Used				
Limestone (%)	EN1	81.3	80.6	80.6
Shale (%)	EN1	17.3	17.8	18.0
Additives (%)	EN1	0.7	0.6	0.5
Alternative raw materials (%)	EN1	0.7	1.0	0.9
Environmental Investments and Compliance				
Environmental investment (million baht)	EN30	28.2	43.8	80.2
Provisions for site restoration (million baht)	EN13	50.2	59.1	57.7
Non-compliance cases	EN28	0	0	0
Associated fines and penalties (million baht)	EN28	0	0	0
Energy				
Fuel consumption (MJ/ton clinker)	EN3	3,075.8	3,083.4	3,114.9
Electricity consumption (kWh/ton cement)	EN3	94.2	94.16	96.59
Alternative fuel thermal substitution rate (%)		10.6	5.51	6.91
CO₂ Emissions				
Net CO ₂ Emissions (kg CO ₂ /ton cementitious material)	EN16	695.4	721.7	717.0
Clinker factor (%)		81.2	83.8	84.0
Other Atmospheric Emissions				
NOx (grams/ton cementitious material)	EN20	599.5	596.1	717.9
SO ₂ (grams/ton cementitious material)	EN20	55.0	51.2	62.2
Dust (grams/ton cementitious material)	EN20	49.8	40.9	44.9
Water				
Water withdrawn from wells and rainwater collected for cement production (m ³)	EN8	1,918,765	3,259,487	2,815,657
Water withdrawn from wells and rainwater collected for waste heat recovery (m ³)	EN8	2,096,501	1,469,612	1,453,406
Water recycled or reused (%)	EN10	77	85	81

* Refer to GRI standard G4

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Social Performance

SD Index - Social Performance				
	GRI*	2018	2017	2016
Employee Practices				
Number of employees	LA1	3,621	3,579	3,961
Proportion of employees by level (%)	LA1			
• Top & senior management	4	4	3	
• Middle level management	42	41	40	
• Other employees	55	56	56	
Portion of female employees by level (%)	LA12			
• Top & senior management	19	22	20	
• Middle level management	37	37	37	
• Other employees	10	9	11	
Ratio of female to male salary	LA13			
• Top & senior management	0.82	0.91	0.89	
• Middle level management	0.93	0.92	0.96	
• Other employees	0.95	0.94	0.87	
Portion of local employees (%)	LA12	99.50	99.64	99.75
Employee turnover (%)	LA1	8.92	14.28	5.81
Employee satisfaction survey conducted		-	-	-
Training				
Average hours of training per employee	LA9	26.84	32.08	49.52
Occupational Health and Safety				
Number of fatalities (employees, contractors and third-party)	LA6	0	0	1
Lost time injury frequency rate (employees and contractors per million man-hours)	LA6	0.25	0.33	0.21
Community Involvement				
Donations, CSR and Community Spending (million baht)	EC1	15.5	18.4	36.8
Stakeholder Engagement				
Needs assessments	SO1	YES	YES	YES
Stakeholder Engagement in CSR planning	SO1	YES	YES	YES
Stakeholder dialogues	SO1	YES	YES	YES
Community advisory panels	SO1	YES	YES	YES

* Refer to GRI standard G4

CSI's Key Performance Indicators



Key Performance Indicators of the CSI			
Key KPIs	2018	2017	2016
Climate protection			
Total CO ₂ emissions - gross (million tons)	9.77	10.15	10.3
Total CO ₂ emissions - net (million tons)	9.47	9.99	10.1
Specific CO ₂ emissions - gross (kg / ton cementitious material)	717.6	734	732
Specific CO ₂ emissions - net (kg / ton cementitious material)	695.4	722	717
Responsible use of fuels and raw materials			
Specific heat consumption of clinker production (MJ / ton clinker)	3,075.80	3,083.29	3,115
Alternative fuel thermal substitution rate (%)	10.57	5.51	6.9
• Alternative fuel rate (%)	10.24	5.48	6.9
• Biomass fuel rate (%)	0.33	0.03	0
Alternative raw materials rate (%)	0.64	1.09	0.94
Clinker / cement ratio (%)	81.2	84.28	84
Safety			
Number of fatalities (directly employed)	0	0	0
Number of fatalities per 10,000 directly employed	0	0	0
Number of fatalities (indirectly employed)	0	0	0
Number of fatalities (third party)	0	0	0
Number of lost time injuries (directly employed)	0	2	0
Total Number of lost time injuries	3	4	4
Lost time injuries per 1 million man-hours (directly employed)	0	0.43	0
Emissions reductions			
Overall coverage rate : percentage (%) of clinker produced with monitoring of all pollutants mentioned in the emissions guidelines	100	100	100
Coverage rate continuous measurement : percentage (%) of clinker produced with continuous monitoring of main pollutants, dust, NOx, SO ₂	100	100	100
Dust - coverage rate (%)	100	100	100
NOx - coverage rate (%)	100	100	100
SO ₂ - coverage rate (%)	100	100	100
Dust - specific emissions (grams / ton clinker)	57.9	47.1	52.1
NOx - specific emissions (grams / ton clinker)	696.8	686.6	832.0
SO ₂ - specific emissions (grams / ton clinker)	63.9	59.0	72.2
Local impacts on land and communities			
Percentage (%) of sites with community engagement plans in place	100	100	100
Percentage (%) of sites with quarry rehabilitation plans in place	100	100	100