

# SD Data

## Economic Performance

SD Index - Economic Performance				
	GRI*	2018	2017	2016
<b>Sales (in million baht)</b>				
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
<b>Value Creation (in million baht)</b>				
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
<b>Sustainable Products (%)</b>				
Cement products containing mineral components	EN2	0.7	1.0	0.9
<b>Suppliers (%)</b>				
Suppliers screened (OH&S, labour standards, legal compliance, environmental standards, as percentage of spending)	HR1	99	99	99
<b>Government Relations (in million baht)</b>				
Political contributions	SO6	0	0	0
Government subsidies received	EC4	0	0	0
<b>Customer Relations</b>				
Customer satisfaction surveys conducted	PR5	YES	YES	YES

\* Refer to GRI standard G4

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## Environmental Performance

SD Index - Environmental Performance				
	GRI*	2018	2017	2016
<b>Materials Used</b>				
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
<b>Environmental Investments and Compliance</b>				
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
<b>Energy</b>				
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
<b>CO<sub>2</sub> Emissions</b>				
Net CO <sub>2</sub> Emissions (kg CO <sub>2</sub> /ton cementitious material)	EN16	695.4	721.7	717.0
Clinker factor (%)		81.2	83.8	84.0
<b>Other Atmospheric Emissions</b>				
NOx (grams/ton cementitious material)	EN20	599.5	596.1	717.9
SO <sub>2</sub> (grams/ton cementitious material)	EN20	55.0	51.2	62.2
Dust (grams/ton cementitious material)	EN20	49.8	40.9	44.9
<b>Water</b>				
Water withdrawn from wells and rainwater collected for cement production (m <sup>3</sup> )	EN8	1,918,765	3,259,487	2,815,657
Water withdrawn from wells and rainwater collected for waste heat recovery (m <sup>3</sup> )	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
<b>Employee Practices</b>				
<b>Number of employees</b>	LA1	3,621	3,579	3,961
<b>Proportion of employees by level (%)</b>	LA1			
• Top & senior management		4	4	3
• Middle level management		42	41	40
• Other employees		55	56	56
<b>Portion of female employees by level (%)</b>	LA12			
• Top & senior management		19	22	20
• Middle level management		37	37	37
• Other employees		10	9	11
<b>Ratio of female to male salary</b>	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
<b>Portion of local employees (%)</b>	LA12	99.50	99.64	99.75
Employee turnover (%)	LA1	8.92	14.28	5.81
Employee satisfaction survey conducted		-	-	-
<b>Training</b>				
Average hours of training per employee	LA9	26.84	32.08	49.52
<b>Occupational Health and Safety</b>				
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
<b>Community Involvement</b>				
Donations, CSR and Community Spending (million baht)	EC1	15.5	18.4	36.8
<b>Stakeholder Engagement</b>				
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
<b>Climate protection</b>			
Total CO <sub>2</sub> emissions - gross (million tons)	9.77	10.15	10.3
Total CO <sub>2</sub> emissions - net (million tons)	9.47	9.99	10.1
Specific CO <sub>2</sub> emissions - gross (kg / ton cementitious material)	717.6	734	732
Specific CO <sub>2</sub> emissions - net (kg / ton cementitious material)	695.4	722	717
<b>Responsible use of fuels and raw materials</b>			
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
<ul style="list-style-type: none"> <li>Alternative fuel rate (%)</li> </ul>	10.24	5.48	6.9
<ul style="list-style-type: none"> <li>Biomass fuel rate (%)</li> </ul>	0.33	0.03	0
Alternative raw materials rate (%)	0.64	1.09	0.94
Clinker / cement ratio (%)	81.2	84.28	84
<b>Safety</b>			
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
<b>Emissions reductions</b>			
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 <sub>2</sub>	100	100	100
Dust - coverage rate (%)	100	100	100
NOx - coverage rate (%)	100	100	100
SO <sub>2</sub> - 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 <sub>2</sub> - specific emissions (grams / ton clinker)	63.9	59.0	72.2
<b>Local impacts on land and communities</b>			
Percentage (%) of sites with community engagement plans in place	100	100	100
Percentage (%) of sites with quarry rehabilitation plans in place	100	100	100