

# SD Data

## Economic Performance

SD Index - Economic Performance				
	GRI	2017	2016	2015
<b>Sales (in million baht)</b>				
Net sales	EC1	43,634	34,192	31,120
Input factor (cost of all goods, materials and services)	EC1	31,303	22,552	19,790
Depreciation and amortisation	EC1	2,964	1,929	1,592
<b>Value Creation (in million baht)</b>				
Benefit to employees	EC1	4,986	4,088	3,604
Benefit to government (taxes)	EC1	852	979	1,101
Benefit to shareholders	EC1	3,398	3,450	3,450
Benefit to creditors	EC1	1,295	730	453
Retained in business	EC1	-1,166	464	1,129
<b>Sustainable Products (%)</b>				
Cement products containing mineral components	EN2	1.0	0.9	1.2
<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

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## Environmental Performance

SD Index - Environmental Performance				
	GRI	2017	2016	2015
<b>Materials Used</b>				
Limestone (%)	EN1	80.6	80.6	79.4
Shale (%)	EN1	17.8	18.0	16.9
Additives (%)	EN1	0.6	0.5	2.5
Alternative raw materials (%)	EN1	1.0	0.9	1.2
<b>Environmental Investments and Compliance</b>				
Environmental investment (million baht)	EN30	43.8	80.2	111.5
Provisions for site restoration (million baht)	EN13	59.1	57.7	54.9
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	3,083.4	3,114.9	3,120.1
Electricity consumption (kWh/ton cement)	EN3	94.16	96.59	95.96
Alternative fuel thermal substitution rate (%)		5.51	6.91	10.0
<b>CO<sub>2</sub> Emissions</b>				
Net CO <sub>2</sub> Emissions (kg CO <sub>2</sub> /ton cementitious material)	EN16	721.7	717.0	699.1
Clinker factor (%)		83.8	84.0	83.6
<b>Other Atmospheric Emissions</b>				
NOx (grams/ton cementitious material)	EN20	596.1	717.9	979.5
SO <sub>2</sub> (grams/ton cementitious material)	EN20	51.2	62.2	55.7
Dust (grams/ton cementitious material)	EN20	40.9	44.9	37.2
<b>Water</b>				
Water withdrawn from wells and rainwater collected for cement production (m <sup>3</sup> )	EN8	3,259,487	2,815,657	2,887,780
Water withdrawn from wells and rainwater collected for waste heat recovery (m <sup>3</sup> )	EN8	1,469,612	1,453,406	1,295,386
Water recycled or reused (%)	EN10	85	81	84

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## Social Performance

SD Index - Social Performance					
	GRI	2017	2016	2015	
<b>Employee Practices</b>					
<b>Number of employees</b>	LA1	3,579	3,961	3,823	
<b>Proportion of employees by level (%)</b>					
• Top & senior management		4	3	3	
• Middle level management		41	40	38	
• Other employees		56	56	59	
<b>Portion of female employees by level (%)</b>					
• Top & senior management		22	20	22	
• Middle level management		37	37	36	
• Other employees		9	11	11	
<b>Ratio of female to male salary</b>					
• Top & senior management		0.91	0.89	0.84	
• Middle level management		0.92	0.96	0.96	
• Other employees		0.94	0.87	0.86	
<b>Portion of local employees (%)</b>					
Employee turnover (%)	LA1	14.28	5.81	7.38	
Employee satisfaction survey conducted		NO	NO	YES	
<b>Training</b>					
Average hours of training per employee	LA9	32.08	49.52	49.02	
<b>Occupational Health and Safety</b>					
Number of fatalities (employees, contractors and third-party)	LA6	0	1	2	
Lost time injury frequency rate (employees and contractors per million man-hours)	LA6	0.31	0.21	0.27	
<b>Community Involvement</b>					
Donations, CSR and Community Spending (million baht)	EC1	18.4	36.8	36.2	
<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	

# CSI's Key Performance Indicators



Key Performance Indicators of the CSI				
Key KPIs	2017	2016	2015	2014
<b>Climate protection</b>				
Total CO <sub>2</sub> emissions - gross (million tons)	10.15	10.3	10.06	9.58
Total CO <sub>2</sub> emissions - net (million tons)	9.99	10.1	9.76	9.32
Specific CO <sub>2</sub> emissions - gross (kg / ton cementitious material)	734	732	721	709
Specific CO <sub>2</sub> emissions - net (kg / ton cementitious material)	722	717	699	690
<b>Responsible use of fuels and raw materials</b>				
Specific heat consumption of clinker production (MJ / ton clinker)	3,083.29	3,115	3,120	3,146
Alternative fuel thermal substitution rate (%)	5.51	6.9	10	11.3
• Alternative fuel rate (%)	5.48	6.9	9.8	8.8
• Biomass fuel rate (%)	0.03	0	0.2	2.5
Alternative raw materials rate (%)	1.09	0.94	1.2	1.9
Clinker / cement ratio (%)	84.28	84	83.6	82.7
<b>Safety</b>				
Number of fatalities (directly employed)	0	0	0	0
Number of fatalities per 10,000 directly employed	0	0	0	0
Number of fatalities (indirectly employed)	0	0	0	2
Number of fatalities (third party)	0	0	0	0
Number of lost time injuries (directly employed)	2	0	2	1
Total Number of lost time injuries	4	4	5	4
Lost time injuries per 1 million man-hours (directly employed)	0.43	0.00	0.36	0.18
<b>Emissions reductions</b>				
Overall coverage rate : percentage (%) of clinker produced with monitoring of all pollutants mentioned in the emissions guidelines	100	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	100
Dust - coverage rate (%)	100	100	100	100
NOx - coverage rate (%)	100	100	100	100
SO <sub>2</sub> - coverage rate (%)	100	100	100	100
Dust - specific emissions (grams / ton clinker)	47.1	52.1	55.6	41
NOx - specific emissions (grams / ton clinker)	686.6	832.0	1,281.3	980.5
SO <sub>2</sub> - specific emissions (grams / ton clinker)	59.0	72.2	73.5	64.1
<b>Local impacts on land and communities</b>				
Percentage (%) of sites with community engagement plans in place	100	100	100	100
Percentage (%) of sites with quarry rehabilitation plans in place	100	100	100	100