

# Sustainable Development KPIs, Holcim Romania: 2008-2017

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>1) SD performance</b>										
Number of plants included in evaluation	23	19	25	24	21	18	18	18	18	18
- Cement	2	2	2	2	2	2	2	2	2	2
- Aggregates	5	2	6	5	5	3	3	3	3	3
- Ready-mix concrete	16	15	17	17	14	13	13	13	13	13
<b>2) Management Systems</b>										
% sites covered by ISO 9001 certification	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
% sites covered by ISO 14001 certification	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
% sites covered by OHSAS 18001 certification	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
<b>3) Responsible Sourcing</b>										
% responsible sourced products (complying with the requirements of BES 6001*)	-	-	-	-	-	-	100%	100%	100%	100%
<b>4) Environmental compliance</b>										
Number of plants/quarries reporting non-compliance cases										
- Cement	0	0	0	0	0	0	0	0	0	0
- Aggregates	0	0	1	0	0	0	0	0	0	0
- Ready-mix concrete	2	4	1	1	0	0	0	1	1	0
Non-compliance cases										
-Cement	0	0	0	0	0	0	0	0	0	0
-Aggregates	0	0	1	0	0	0	0	0	0	0
-Ready-mix concrete	2	0	1	1	0	0	0	1	1	0
Associated fines and penalties [mil RON]										
- Cement	0	0	0	0	0	0	0	0	0	0
- Aggregates	0	0	0.004	0	0	0	0	0	0	0
- Ready-mix concrete	0.022	0	0.024	0.012	0	0	0	0.025	0.015	0
<b>5) Reducing CO<sub>2</sub> emissions</b>										
Verified EU-ETS emissions [kt CO <sub>2</sub> /yr]	1867.5	1674.9	1474.0	1688.9	1598.6	1532.2	1650.4	1909.9	1716.6	1,837.1
<b>6) Energy</b>										
Traditional fossil fuel rate [%]	92.0	88.4	80.5	81.5	81.4	76.3	76.5	74.9	75.0	69.6
Thermal substitution rate [%]	8.0	11.6	19.5	18.5	18.6	23.7	23.5	25.1	25.0	30.4
Fuel consumption (specific MJ/t)										
-Cement	2,270	2,459	2,702	2,791	2,763	2,489.7	2,524.5	2,653.7	2,653.0	2017
-Aggregates	0.01	0.01	0.02	0.02	0.01	0.23	0.3	0.35	0.35	0.01
-Ready-mix concrete (MJ/m <sup>3</sup> )	17.15	16.35	17.35	9.90	9.58	11.01	10.3	9.68	9.68	11.62
Power consumption (specific kWh/t)										
-Cement	95.82	100.78	99.47	69.3	97.7	98.5	96.5	96.8	103.7	103.4
-Aggregates	0.00	0.12	0.76	0.37	0.98	1.8	1.8	1.9	1.7	1.65
-Ready-mix concrete	2.63	5.69	3.86	3.90	3.30	3.06	3.06	2.20	2.20	2.57
<b>7) Other atmospheric emissions</b>										
<b>NOx</b>										
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	3461	3180	2511	2591	2466	2372	2447	2922	2042	2226
-Average specific concentration (g/tonne cementitious materials)	1150	1179	1072	946	933	826.8	782.9	884.0	638.6	762
<b>SO<sub>2</sub></b>										
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	393	127	84	173	348	274	246	372	687	550
-Average specific concentration (g/tonne cementitious materials)	131	47	36	63	132	92.4	83.3	118.3	215.7	188
<b>Dust</b>										
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	168	12	16	18	12	9	6	30	18	30
-Average specific concentration (g/tonne cementitious materials)	56	5	7	6	5	2.8	2.2	9.0	5.8	11
<b>Organics</b>										
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	83.00	80.00	125.00	77.71	93.02	61	69	59	51	66
-Average specific concentration (g/tonne cementitious materials)	28	29.65	53.38	68.63	77.38	24.9	26.3	19.5	18.9	23
<b>8) Biodiversity and resources conservation</b>										
No of sites operating in environmentally sensitive areas										
-Cement	0	0	0	0	0	0	0	0	0	0
-Aggregates	0	0	1 out of 6	1 out of 5	1 out of 5	1 out of 3	1 out of 3	1 out of 3	1 out of 3	1 out of 3
-Ready-mix concrete	0	0	0	0	0	0	0	0	0	0
Approved mining plans by local authorities										
-Cement	100	100	100	100	100	100	100	100	100	100
-Aggregates	100	100	100	100	100	100	100	100	100	100
% of sites with Quarry Rehabilitation Plan in place										
-Cement	100	100	100	100	100	100	100	100	100	100
-Aggregates	100	100	100	100	100	100	100	100	100	100
<b>9) Water</b>										
Water consumption l/t										
-Cement [l/t clinker]	135	128	153	101	81	247	206	227	240	200
-Aggregates [l/t]	973	1,053	1,422	1,764	1,464	1,650	1,750	1,706	1,859	2022
-Ready-mix concrete (l/m <sup>3</sup> )	203	265	235	193	201	203	186.6	170	173	170
Water recycling system (%)										
Cement	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
Aggregates	0	50	16.60	16.2	28.3	17	16.3	15.9	16.1	16
Ready-mix concrete	80	100	100	100	100	100	100	100	100	100
<b>10) OH&amp;S Performance</b>										
<b>Fatalities</b>										
-own personnel	0	0	0	0	0	0	0	0	0	0
-subcontracted personnel	0	0	0	0	0	0	0	0	0	0
-third party personnel	0	1	0	0	0	0	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0
-others	0	1	0	0	0	0	0	0	0	0
<b>LTI</b>										
-own personnel	3	0	0	1	1	1	0	0	0	0
-subcontracted personnel	0	0	1	0	0	0	0	0	0	0
-third party personnel	4	4	1	0	1	1	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0
-others	0	0	0	1	0	0	0	0	0	0
Injuries causing permanent disability										
-own personnel	0	0	0	0	0	0	0	0	0	0
-subcontracted personnel	0	0	0	0	0	0	0	0	0	0
-third party personnel	0	0	0	0	0	0	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0
-others	0	0	0	0	0	0	0	0	0	0
<b>11) Employment practices</b>										
Employee turnover	4.84	5.59	4.38	4.73	5.21	4.94	2.52	3.19	3.07	5.61
% female workforce	24.41%	24.73%	26.34%	26.83%	27.79%	31.64	32	32	31.38	31.72
<b>12) Training</b>										
Average training hours per employee		23	46	52	44	37	52	65	56	66
<b>13) Transportation</b>										
Customer satisfaction level	99.99%	99.92%	99.99%	99.99%	99.97%	99.97%	99.98%	99.98%	99.98%	99.98%
Rails vs. Road Transport (%)	-	-	-	-	-	-	-	21.08%	21.82%	21.50%

\* BES 6001 - BRE Environmental & Sustainability Standard describes the organisational management, supply chain management and sustainability aspects to be addressed in the certification and approval of the responsible sourcing of products (BRE- Building Research Establishment, UK).