

Sustainable Development KPIs, Holcim Romania: 2008-2018

1) SD performance	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of plants included in evaluation	23	19	25	24	21	18	18	18	18	18	18
Cement	2	2	2	2	2	2	2	2	2	2	2
Aggregates	5	2	6	5	5	3	3	3	3	3	3
Ready-mix concrete	16	15	17	17	14	13	13	13	13	13	13
2) Management Systems	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
% sites covered by ISO 9001 certification	100%	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%	100%
% sites covered by OHSAS 18001 certification	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
3) Responsible Sourcing	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
% responsible sourced products (complying with the requirements of BES 6001*)	-	-	-	-	-	-	100%	100%	100%	100%	100%
4) Environmental compliance	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of plants/quarries reporting non-compliance cases											
- Cement	0	0	0	0	0	0	0	0	0	0	0
- Aggregates	0	0	1	0	0	0	0	0	0	0	0
- Ready-mix concrete	2	4	1	1	0	0	0	1	1	0	0
Non-compliance cases											
-Cement	0	0	0	0	0	0	0	0	0	0	0
-Aggregates	0	0	1	0	0	0	0	0	0	0	0
-Ready-mix concrete	2	0	1	1	0	0	0	1	1	0	0
Associated fines and penalties [mil RON]											
- Cement	0	0	0	0	0	0	0	0	0	0	0
- Aggregates	0	0	0.004	0	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	0
5) Reducing CO₂ emissions	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Verified EU-ETS emissions [kt CO ₂ /yr]	1867.5	1674.9	1474.0	1688.9	1598.6	1532.2	1650.4	1909.9	1716.6	1837.1	2,029.6

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6) Energy	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Traditional fossil fuel rate [%]	92.0	88.4	80.5	81.5	81.4	76.3	76.5	74.9	75.0	69.6	65.2
Thermal substitution rate [%]	8.0	11.6	19.5	18.5	18.6	23.7	23.5	25.1	25.0	30.4	34.8
Fuel consumption (specific MJ/t)											
-Cement	2,270	2,459	2,702	2,791	2,763	2489.7	2524.5	2653.7	2653.0	3612.0	3'393.7
-Aggregates	0.01	0.01	0.02	0.02	0.01	0.23	0.3	0.35	0.35	0.01	0.01
-Ready-mix concrete (MJ/m3)	17.15	16.35	17.35	9.90	9.58	11.01	10.3	9.68	9.68	11.62	10.65
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	1.53
-Ready-mix concrete	2.63	5.69	3.86	3.90	3.30	3.06	3.06	2.20	2.20	2.57	2.39
7) Other atmospheric emissions	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
NOx											
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	3461	3180	2511	2591	2466	2372	2447	2922	2042	2226	2478
-Average specific	1150	1179	1072	946	933	826.8	782.9	884.0	638.6	762.0	744
SO2											
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	393	127	84	173	348	274	246	372	687	550	456
-Average specific	131	47	36	63	132	92.4	83.3	118.3	215.7	188.0	188
Dust											
-Number of kilns reporting	2	2	2	2	2	2	2	2	2	2	2
-Total emissions (tonne/a)	168	12	16	18	12	9	6	30	18	30	41
-Average specific	56	5	7	6	5	2.8	2.2	9.0	5.8	11.0	12
Organics											
-Number of kilns reporting	2	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	71
-Average specific	28	29.65	53.38	68.63	77.38	24.9	26.3	19.5	18.9	23	21

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8) Biodiversity and resources conservation	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
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	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	100
-Aggregates	100	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	100
-Aggregates	100	100	100	100	100	100	100	100	100	100	100
9) Water	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Water consumption l/t											
-Cement [l/t clinker]	135	128	153	101	81	247	206	227	240	200	218
-Aggregates [l/t]	973	1,053	1,422	1,764	1,464	1,650	1750	1706	1859	2022	2056
-Ready-mix concrete (l/m3)	203	265	235	193	201	203	186.6	170	173	170	182
Water recycling system (%)											
Cement	72.5	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	16
Ready-mix concrete	80	100	100	100	100	100	100	100	100	100	100
10) OH&S Performance	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Fatalities											
-own personnel	0	0	0	0	0	0	0	0	0	0	0
-subcontracted personnel	0	0	0	0	0	0	0	0	0	0	0
-third party personnel	0	1	0	0	0	0	0	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0	0
-others	0	1	0	0	0	0	0	0	0	0	0
LTI											
-own personnel	3	0	0	1	1	1	0	0	0	0	0
-subcontracted personnel	0	0	1	0	0	0	0	0	0	0	0
-third party personnel	4	4	1	0	1	1	0	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0	0
-others	0	0	0	1	0	0	0	0	0	0	0
Injuries causing permanent disability											
-own personnel	0	0	0	0	0	0	0	0	0	0	0

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-subcontracted personnel	0	0	0	0	0	0	0	0	0	0	0
-third party personnel	0	0	0	0	0	0	0	0	0	0	0
-visitors	0	0	0	0	0	0	0	0	0	0	0
-others	0	0	0	0	0	0	0	0	0	0	0
11) Employment practices	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Employee turnover	4.84	5.59	4.38	4.73	5.21	4.94	2.52	3.19	3.07	5.61	6.29%
% female workforce	24.41%	24.73%	26.34%	26.83%	27.79%	31.64	32	32	31.38	31.72	29.61%
12) Training	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Average training hours per employee		23	46	52	44	37	52	65	56	66	48
13) Transportation	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Customer satisfaction level	99.99%	99.92%	99.99%	99.99%	99.97%	99.97%	99.98%	99.98%	99.98%	99.98%	99.89%
Rails vs. Road Transport (%)	-	-	-	-	-	-	-	21.08%	21.82%	21.50%	21.01%

* **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).