

# CSI & ADDITIONAL KEY PERFORMANCE INDICATORS 2015

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LafargeHolcim

## CSI & Additional KPIs 2015

Indicator	2015 performance
<b>Climate protection</b>	
Total CO2 emissions - gross (million tonnes)	159
Total CO2 emissions - net (million tonnes)	154
Specific CO2 emissions - gross (kg / tonne cementitious material)	593
Specific CO2 emissions - net (kg / tonne cementitious material)	573
<b>Responsible use of fuels and raw materials</b>	
Specific heat consumption of clinker production (MJ / tonne clinker)	3'533
Alternative fuel rate (%)	15
Biomass fuel rate (%)	5
Alternative raw materials rate (%)	11
Clinker / cement ratio (%)	71
<b>Electricity</b>	
Electricity purchased & consumed (megawatt hours (MWh))	20'022'303
<b>Employee Health and Safety</b>	
Number of fatalities (directly employed)	5
Number of fatalities per 10,000 directly employed <sup>[Note 1]</sup>	0.59
Number of fatalities (indirectly employed)	28
Number of fatalities (third party)	17
Number of lost time injuries (directly employed)	239
Total Number of lost time injuries <sup>[Note 2]</sup>	500
Lost time injuries per 1 million manhours (directly employed)	1.01
<b>Emissions reductions</b>	
Overall coverage rate: percentage (%) of clinker produced with monitoring of all pollutants mentioned in the emissions guidelines	85
Coverage rate continuous measurement: percentage (%) of clinker produced with continuous monitoring of main pollutants: dust, NOx, Sox	91
Dust - absolute emissions (tonnes / year)	12'698
Dust - specific emissions (grams / tonne clinker)	67
Dust - coverage rate (%)	96

<sup>1</sup> Calculated for clinker and cement production

<sup>2</sup> Includes employees and contractor onsite

Indicator	2015 performance
NOx - absolute emissions (tonnes / year)	278'061
NOx - specific emissions (grams / tonne clinker)	1'479
NOx - coverage rate (%)	93
SO2 - absolute emissions (tonnes / year)	47'799
SO2 - specific emissions (grams / tonne clinker)	178
SO2 - coverage rate (%)	96
VOC/THC - absolute emissions (tonnes / year)	7'954
VOC/THC - specific emissions (grams / tonne clinker)	42
VOC/THC - coverage rate (%)	7
PCDD/F - absolute emissions (g / year)	6.4
PCDD/F - specific emissions (ng / tonne clinker)	34.1
PCDD/F - coverage rate (%)	76
Hg - absolute emissions (t / year)	2.41
Hg - specific emissions (mg / tonne clinker)	10
Hg - coverage rate (%)	75
HM1 - absolute emissions (t / year) <sup>[Note 3]</sup>	4
HM1 - specific emissions (mg / tonne clinker)	23
HM1 - coverage rate (%)	70
HM2 - absolute emissions (t / year) <sup>[Note 4]</sup>	113
HM2 - specific emissions (mg / tonne clinker)	599
HM2 - coverage rate (%)	63
<b>Local impacts on land and communities</b>	
Percentage (%) of sites with quarry rehabilitation plans in place	88
Percentage (%) of sites with community engagement plans in place	92
<b>Biodiversity KPIs</b>	
Number of quarries within, containing, or adjacent to areas designated for their high biodiversity value, as defined by GRI EN11 (number and coverage)	215
Percentage (%) of quarries with high biodiversity value where biodiversity management plans are actively implemented	80
<b>Customer</b>	
Net Promoter Score (NPS)	60.7

<sup>3</sup> HM1: Sum Cd and Tl

<sup>4</sup> HM2: Sum of Sb, As, Pb, Cr, Co, Cu, Mn, Ni, V

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