



# Sustainability Report 2017 - 2018

## Environmental performance Indicators

GRI Code	Description	Item	2017	2018
<b>MATERIALS</b>				
301-2	Percentage of materials used that are recycled input materials	% of PFA/GGBS/Silica Fume in total cementitious materials used	20.90%	19.72%
<b>ENERGY</b>				
302-1	Energy consumption within the organization	Diesel consumption (L) Biodiesel ( L ) Petroleum consumption (L) Electricity consumption (kWh)	4,098,018.61 35,209.53 56,144.31 5,602,996.35	3,964,463.37 4,176.21 53,662.29 5,492,807.00
302-4	Reduction of energy consumption <sup>7</sup>	% of electricity consumption per 1M <sup>3</sup> concrete reduced (yearly comparison) % of electricity consumption per 1M <sup>3</sup> concrete reduced (compare with 2017) % of electricity consumption per M <sup>2</sup> floor area of Head Office reduced (yearly comparison) % of electricity consumption per M <sup>2</sup> floor area of Head Office reduced (compare with 2017) % of fuel consumption per KM travelled by concrete mixer trucks reduced (yearly comparison) % of fuel consumption per KM travelled by concrete mixer trucks reduced (compare with 2017) % of fuel consumption per KM travelled by cement tankers reduced (yearly comparison) % of fuel consumption per KM travelled by cement tankers reduced (compare with 2017) % of fuel consumption per KM travelled by service vans reduced (yearly comparison) % of fuel consumption per KM travelled by service vans reduced (compare with 2017)	1.77% 0.00% 11.74% 0.00% 0.80% 0.00% -40.06% 0.00% 5.68% 0.00%	3.83% 3.83% 8.63% 8.63% 5.50% 5.50% 4.08% 4.08% -2.20% -2.20%
<b>WATER</b>				
303-1	Total water withdrawal by source <sup>1</sup>	Total water consumption per year (M <sup>3</sup> ) Total water consumption per year (M <sup>3</sup> )	309,150.15	267,678.67
303-3	Percentage and total volume of water recycled and reused <sup>2</sup>	Estimated rainwater/waste water collected and reused (M <sup>3</sup> )	116,085	140,608
<b>EMISSIONS, EFFLUENTS, AND WASTE</b>				
305-1	Direct greenhouse gas (GHG) emissions (Scope 1) <sup>3</sup>	Total scope 1 carbon emissions (tonnes CO <sub>2</sub> e) Total scope 1 carbon emissions (tonnes CO <sub>2</sub> e)	11,166.38	10,602.67



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<b>EMISSIONS, EFFLUENTS, AND WASTE</b>				
305-2	Energy indirect greenhouse gas (GHG) emissions (Scope 2) <sup>3</sup>	Total scope 2 carbon emissions (tonnes CO <sub>2</sub> e)	2,949.15	2,972.09
305-3	Other relevant indirect greenhouse gas (GHG) emissions (Scope 3) <sup>3</sup>	Total scope 3 carbon emissions (tonnes CO <sub>2</sub> e) Total carbon emissions (tonnes CO <sub>2</sub> e)	157.91 14,273.44	123.61 13,698.37
305-4	Greenhouse gas (GHG) Emissions intensity	Carbon intensity - concrete (tonnes CO <sub>2</sub> e per M <sup>3</sup> concrete)	0.008716942	0.008124315
305-5	Reduction of greenhouse gas (GHG) Emissions	Carbon reduction as compare with 2007 - concrete intensity Carbon reduction as compare with 2007 - overall emissions	15.40% 18.58%	21.10% 24.76%
306-1	Water discharge by quality and destination <sup>4</sup>	Volume of water discharged (M <sup>3</sup> )	7,721	17,362
306-2	Total weight of waste by type and disposal method <sup>5,6</sup>	Construction waste/special waste to landfills (Tonnes) Chemical waste handled by licensed collectors (L) Concrete waste recycled (Tonnes) Paper waste recycled (kg)	57,254 299 4,612 2,093	53,215 168 7,124 1,351
306-3	Total number and volume of significant spills	No. of significant chemical / cement spilt cases	0	0

Note

- 1 All water obtained from municipal source
- 2 Estimated from the capacity and operation pattern of the waste water treatment system
- 3 Calculation method & principle for application of conversion factors referred to GHG Protocol and Guidelines to Account for & Report on GHG Emissions & Removals for Buildings in Hong Kong; Carbon Footprint data had been verified independent according to ISO14064
- 4 Quality, volume and discharge points for water discharge are controlled by Water Discharge License issued by EPD
- 5 Data captured from the construction waste chits and special waste tickets that issued and controlled by EPD
- 6 Data captured from the chemical waste trip tickets
- 7 Base-year changed to 2017 due to significant change of concrete plants profile