

# ENVIRONMENTAL

## ▣ OUR PERFORMANCE

In 2016, we embarked on the replacement of the chillers at our corporate headquarters in Singapore. The building was awarded the Singapore Green Mark Gold Standard by the Building and Construction Authority. The chillers for the building were replaced with a more energy-efficient system, resulting in an energy reduction of one million kilowatt hours of electricity per year.

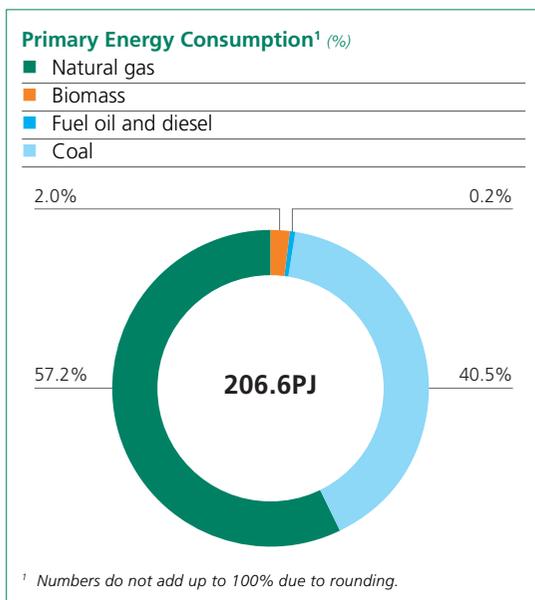
*\*The data in this document is presented in accordance with GRI G4 general and specific standard disclosures, and the relevant GRI G4 category, aspect and indicator is specified.*

# ALL ENVIRONMENTAL INDICATORS

## Material Issue – Climate Change

### G4-EN3 Environmental: Energy

Energy consumption within the organisation

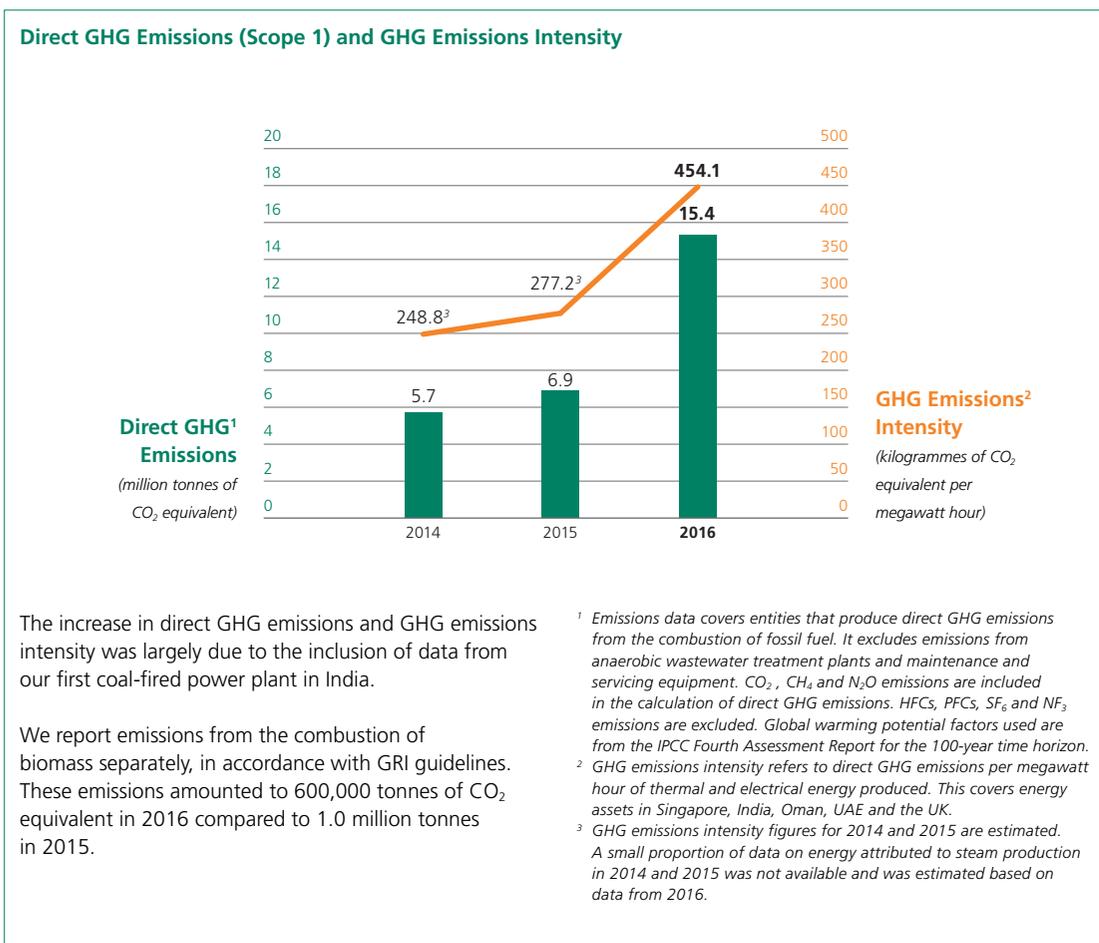


**Energy Purchased and Sold (in PJ)**

Electricity purchased	3.3
Steam purchased	0.6
Electricity sold	76.0
Steam sold	46.3

**G4-EN15 G4-EN18 Environmental: Emissions**

Direct greenhouse gas (GHG) emissions (Scope 1) and greenhouse gas (GHG) emissions intensity



**G4-EN21 Environmental: Emissions**

NO<sub>x</sub>, SO<sub>x</sub>, and other significant air emissions

Material air pollutants are NO<sub>x</sub>, SO<sub>x</sub>, and particulate matter.

Other Atmospheric Emissions (in thousand tonnes)	2016	2015	2014
Nitrogen oxides (NO <sub>x</sub> )	17.1	3.7	3.2
Sulphur oxides (SO <sub>x</sub> )	19.6	0.8	0.8 <sup>r</sup>
Particulate matter (PM)	1.1	0.1 <sup>r</sup>	0.3

<sup>r</sup> Indicates restated figure.

## Material Issue – Local Environmental Protection

### G4-EN22 Environmental: Effluents and Waste

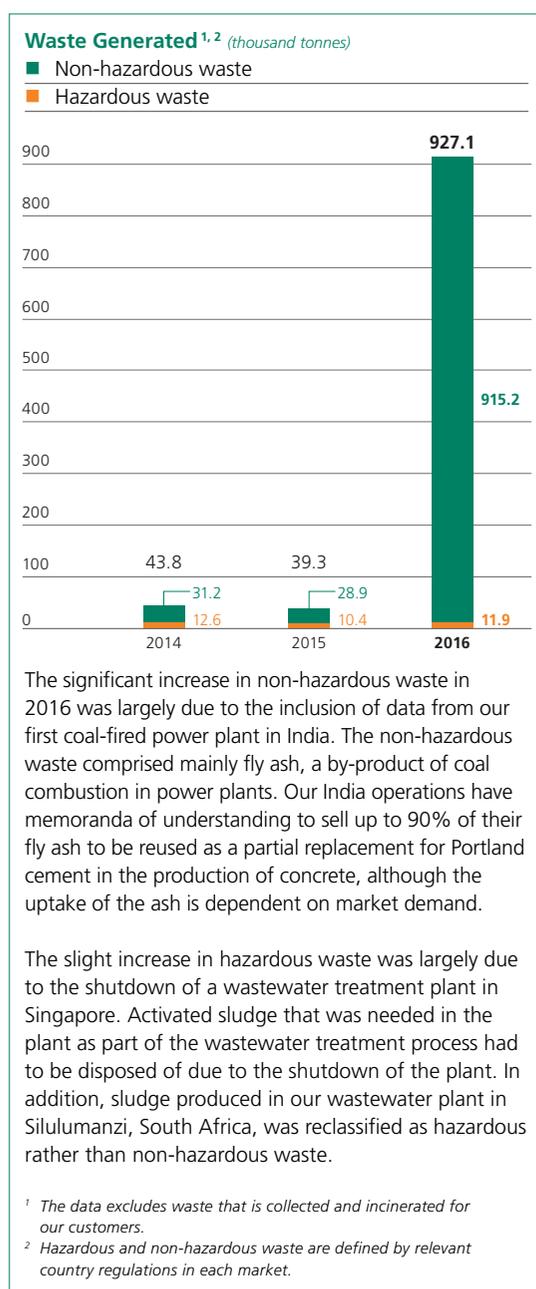
Total water discharge by quality and destination

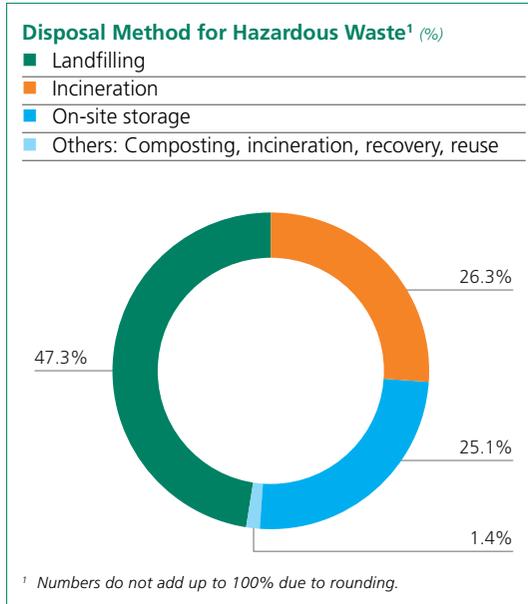
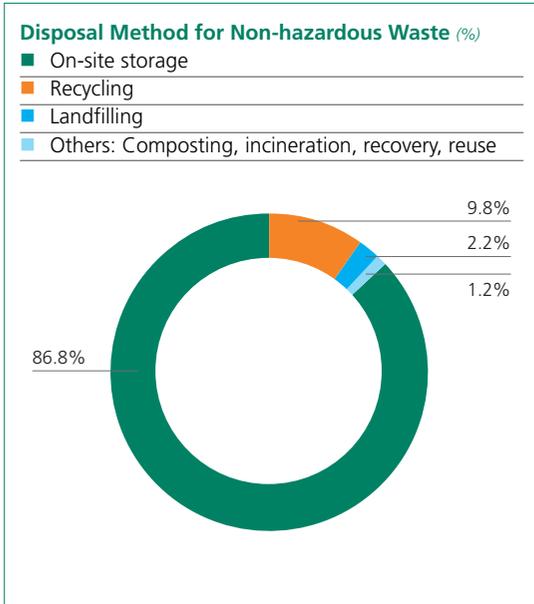
	2016	2015	2014
Water discharged <sup>1</sup> (million m <sup>3</sup> )	1,321.3	1,258.4	1,089.0

<sup>1</sup> The data includes water that is treated and discharged for our customers.

### G4-EN23 Environmental: Effluents and Waste

Total weight of waste by type and disposal method





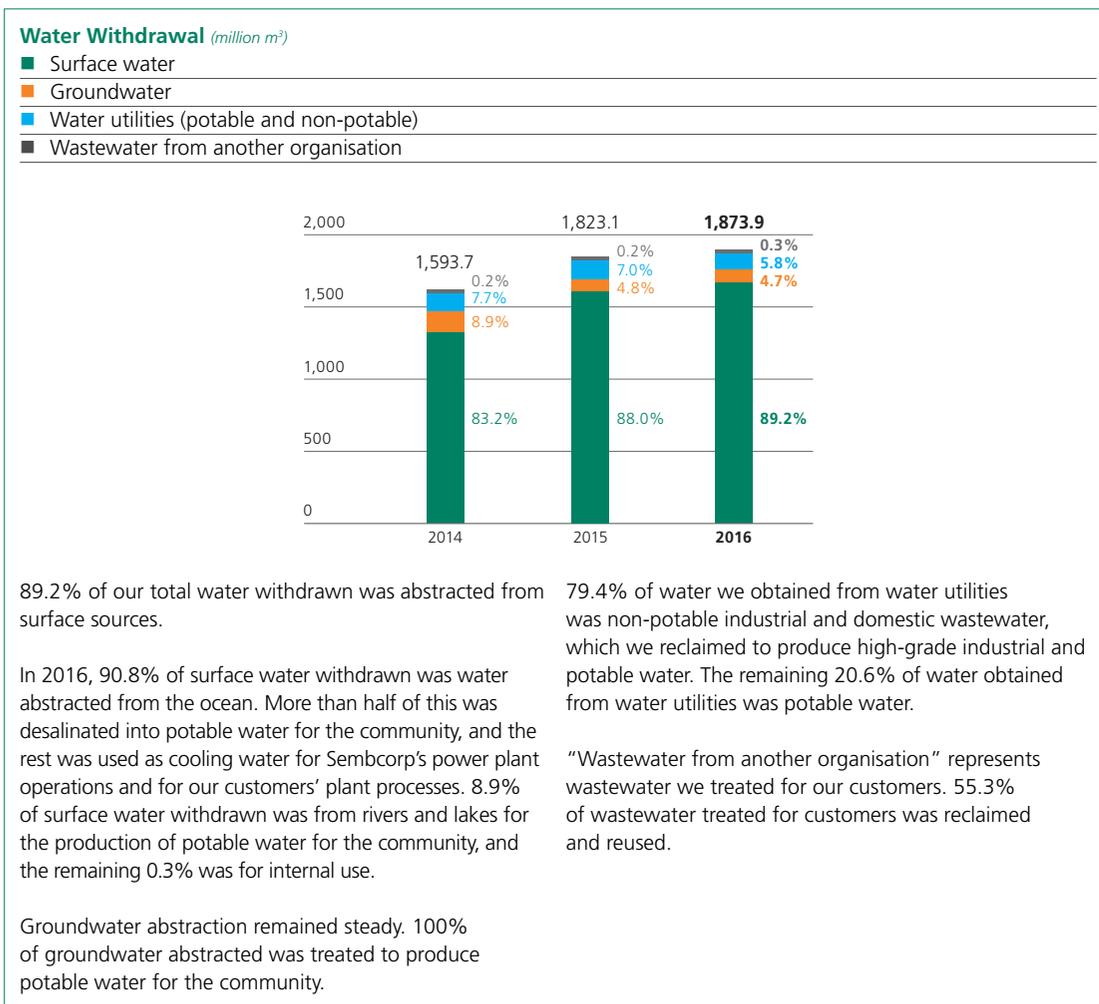
**G4-EN24 Environmental: Effluents and Waste**

*Total number and volume of significant spills*

There were no significant spills.

**G4-EN8 Environmental: Water**

Total water withdrawal by source



**G4-22 Identified Material Aspects and Boundaries**

Report the effect of any restatements of information provided in the previous reports, and the reasons for such restatements.

**Restatements of reporting for previous annual reports**

Figures below are restated after an internal verification exercise which corrected the following calculation errors:

- 2015 Particulate matter (PM): 0.2 thousand tonnes (erroneous), 0.1 thousand tonnes (restated)
- 2014 Sulphur oxides (SO<sub>x</sub>): 0.7 thousand tonnes (erroneous), 0.8 thousand tonnes (restated)

## ➤ GOING FORWARD

We will continue to monitor global, industry and peer action in relation to climate change closely. The way forward requires us to balance stakeholder interests against climate-related and environmental risks, and we are committed to building sustainable businesses that create and deliver long-term value.

We are in the process of implementing our Environmental and Social Policy for New Investments. This policy embeds social and environmental factors into our investment approval process to ensure social and environmental risks are accounted for at the onset of an investment.

We will continue to invest in technology to improve the environmental performance of our facilities. Our operations in India will implement flue gas desulphurisation to reduce emissions while our operations in the UAE will use flue gas heat recovery to increase efficiency. Our energy-from-waste plant in Singapore is expected to commence operations in 2017. The plant will be fuelled by around 1,000 tonnes of industrial and commercial waste per day, roughly 14% of the total tonnage of waste bound for incineration in Singapore every day.

We will leverage the progressive implementation of the Sembcorp Global Asset Management System to strengthen in-house digitalisation and predictive analytics capabilities.

### ➤ **Climate Change**

To have a business portfolio that balances the economic expectations of our stakeholders and our businesses' impact on the climate

### ➤ **Local Environmental Protection**

To fulfil our duty to protect the environment and conserve resources, while providing competitive and reliable solutions for our stakeholders

### ➤ **Energy and Water Efficiency**

To improve energy and water efficiency through good and economically viable environmental practices