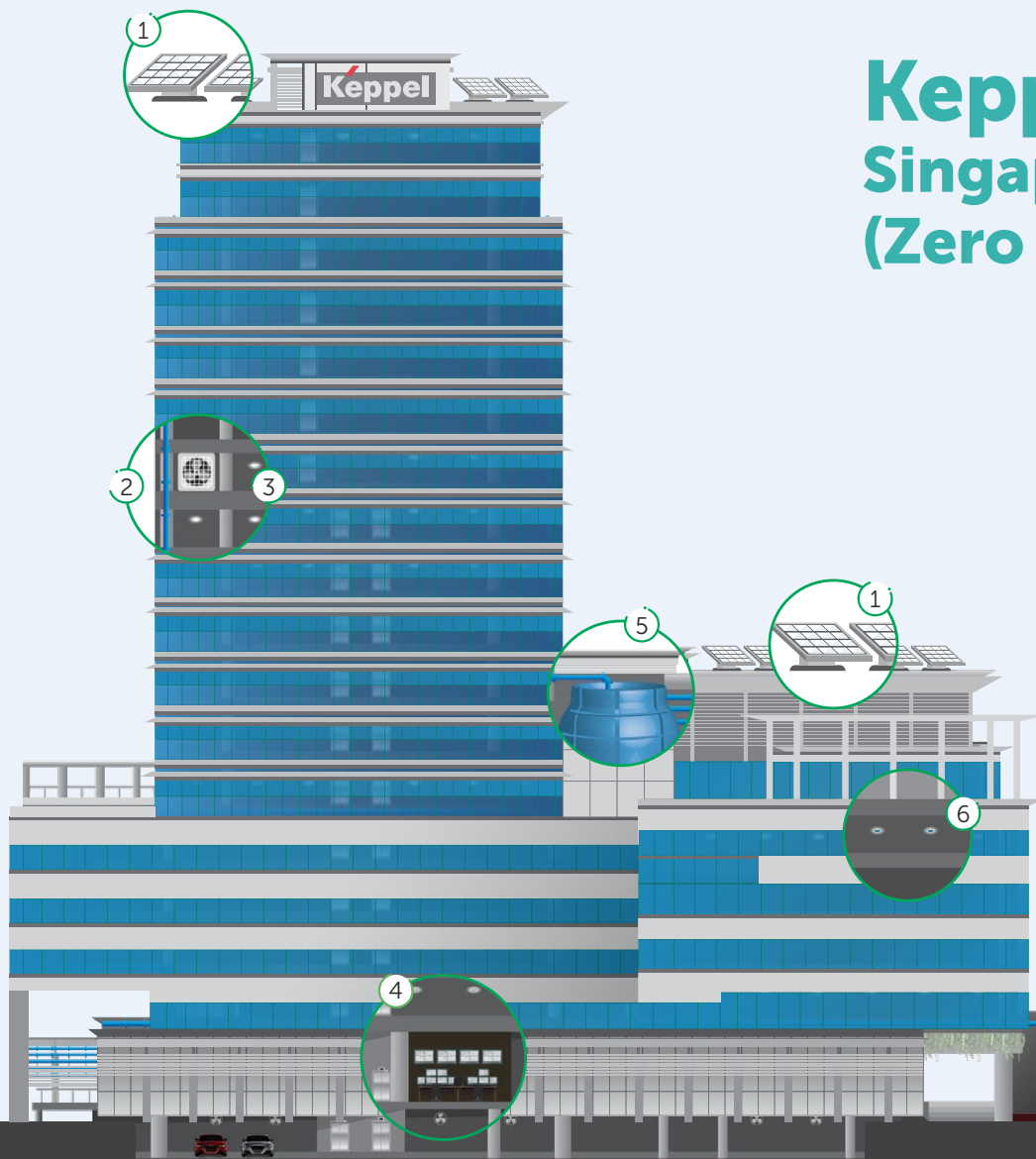


Keppel Bay Tower - Singapore's first Green Mark Platinum (Zero Energy) commercial building



Energy Use Index (EUI) of <math><115 \text{ kWh/m}^2 \text{ per year}</math>

Almost 50% more energy-efficient compared to typical office buildings in Singapore



Reduction of over 2,400 tonnes of carbon emissions per annum

Purchase of Renewable Energy Certificates generated from PV panels installed in Keppel Offshore & Marine's yards in Singapore. Together with the installation of onsite PV panels at Keppel Bay Tower, these initiatives will result in a reduction of over 2,400 tonnes of carbon emissions per annum



Overall energy savings of over 30% or 2.2 million kWh/year

Equivalent to the amount of energy required to power more than 400 five-room HDB flats in Singapore for a year

Smart, eco-features of Keppel Bay Tower

1

PV Panel System

allows the harvesting of about 100,000 kWh of energy per annum

2

Energy-Efficient Air Distribution System

features air handling unit fans which are about 45% more energy-efficient than other best-in-class technologies

3

Demand Control Fresh Air Intake System

utilises integrated sensors to regulate fresh air intake according to indoor activities, optimising energy usage for better thermal comfort and indoor environmental quality

4

Intelligent Building Control System

employs a high-precision physics-based simulation engine to improve data analytics and control

5

Cooling Tower Water Management System

utilises a patented solution that reduces cooling tower water usage and eliminates the need for chemical water treatment

6

Smart Lighting System

utilises occupancy sensors which allow seamless transition in lighting levels according to building occupancy