Economy Updates Hong Kong, China

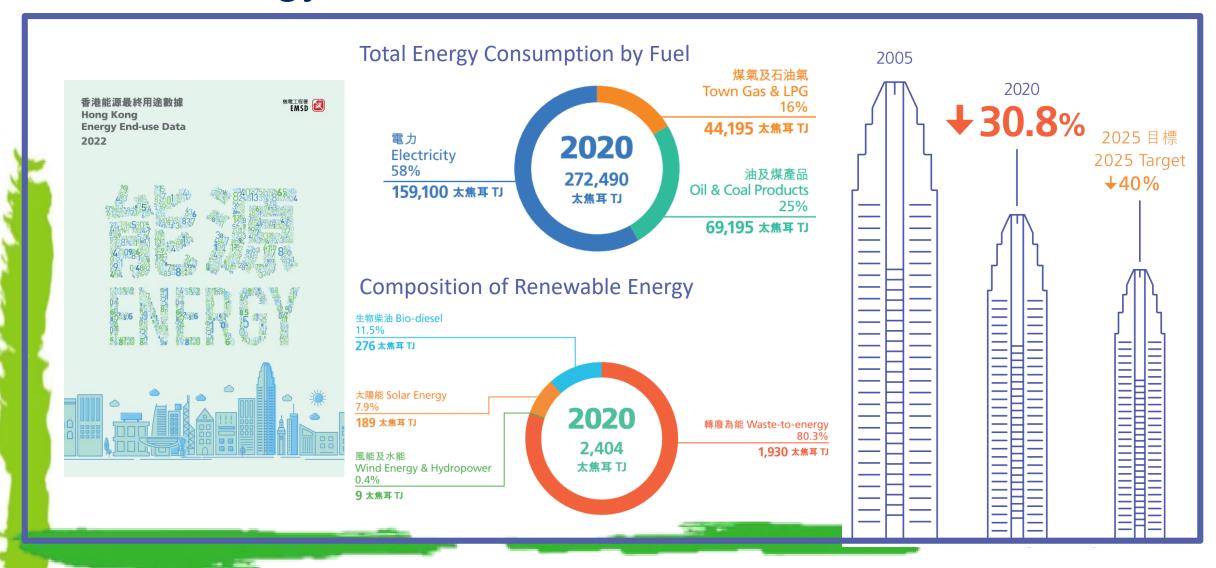
Theme: BCG Model towards Carbon Neutrality

6 October 2022

THE 57TH MEETING OF THE APEC EXPERT GROUP ON NEW AND RENEWABLE ENERGY TECHNOLOGIES (EGNRET 57)



HKC's Energy End-use Data



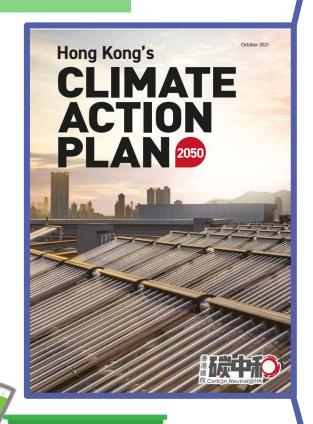
Green-economy: Striving towards Carbon Neutrality



Carbon Offset

CARBON

EMISSIONS







Zero-carbon Emissions Liveable City

Sustainable Development





Net-zero Electricity Generation Energy Saving and Green Buildings



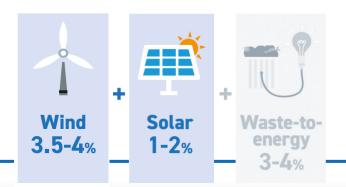


Green Transport

Waste Reduction



Net-zero Electricity Generation

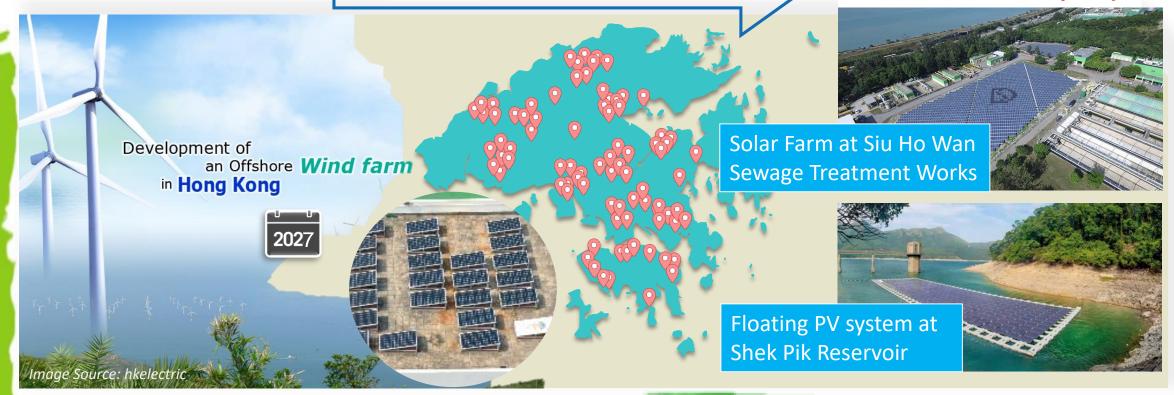


Renewable Energy (RE)



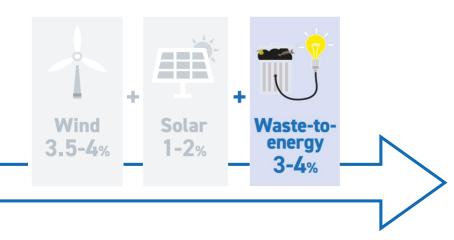
2035 7.5-10%

(Increase to 15% subsequently)





Net-zero Electricity Generation









(Increase to 15% subsequently)





waste per day



O-PARK2

Handles
300 Tons of food
waste per day



Handles 3,000 Tons of MSW per day



Bio- Circular economy



Energy Saving and Green Buildings



Electricity consumption (Compared with 2015)



(Reduce by 30-40% subsequently)



(Reduce by 20-30% subsequently)





Initiatives:

Strengthening Regulation

Continuous enhancement of energy performance of buildings



Explore setting minimum energy efficiency requirement for specified appliances





Smart Management

Use smart technologies to enhance energy saving management and energy efficiency of buildings and infrastructure

District Cooling Systems (DCS)

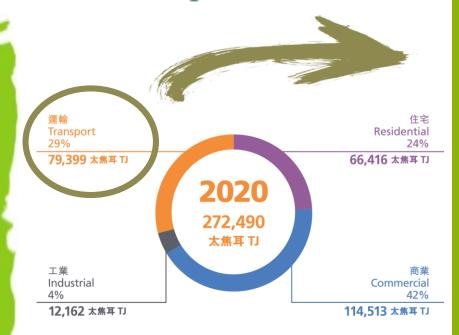




Hong Kong, China



Green Transport



Total Energy Consumption by Sector

Electric Vehicles

EV-Charging at Home Subsidy Scheme

(since October 2020)

Received over **490** applications covering more than **105 000** parking spaces, **75%** more than the original target

Hong Kong Roadmap on Popularisation of Electric Vehicles @ March 2021

Setting out the long-term policy objectives and plans to promote the adoption of EVs

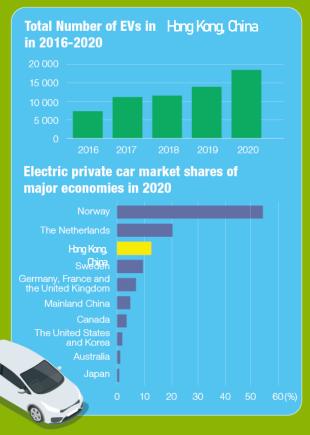
VISION

Zero Carbon Emissions · Clean Air · Smart City

TARGET

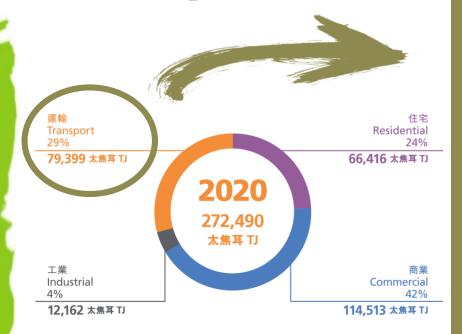
Zero vehicular emissions by 2050

Growing Number of Electric Vehicles (EVs)





Green Transport



Total Energy Consumption by Sector





Hydrogen Filling Facility





Hydrogen Fuel cell Electric bus



Integrating RE with I&T



Funding for more I&T solutions



US\$25M

PRIORITY THEME







Energy Saving and Green Buildings



Green Transport



Waste Reduction

Out of 190 applications received in the first round of application, 14 projects with a total grant of around US\$9 million have been approved.

Printable Perovskite Solar Cells

Solar Hydrogen via Photocatalyst Panel

Green Hydrogen Production from Active Flow Membraneless Electrolyzers

Solid-state hydrogen storage materials

High Performance and Long Life Hydrogen Fuel Cell Stacks

Recycling of waste lithium-ion batteries as fuel cell catalysts

Zero-carbon Emissions Liveable Sustainable Development



THANK YOU.

