

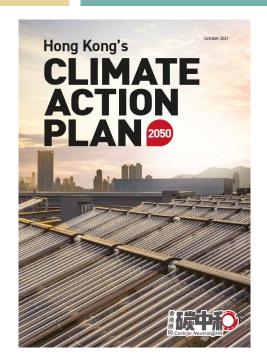
ECONOMY UPDATES Hong Kong, China

16-18 October 2023

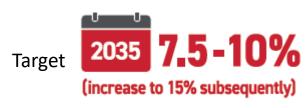
THE 61ST MEETING OF THE APEC EXPERT GROUP ON ENERGY EFFICIENCY & CONSERVATION

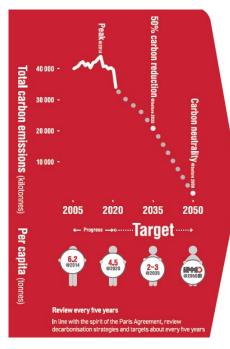
香港大学子 選 向 Carbon Neutral@HK

HK will strive to achieve Carbon Neutrality before 2050



Renewable Energy (RE)







Energy Intensity Target 2005-2025 (2005 as base year) -10 -20 -33.3% 2005 2007 2009 2013 2015 2017 2019 2021 2023 2025 2011

(year)

(Source: Hong Kong Energy End-use Data 2023)

Electricity Saving in Buildings

2035

Electricity consumption (Compared

with 2015)

Target



(Reduce by 30-40% subsequently)

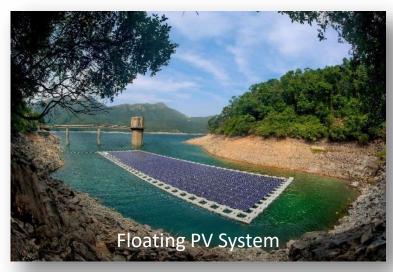


(Reduce by 20-30% subsequently)















Various measures to prompt RE application in Hong Kong

- Widely adoption of PV panels on reservoirs, open carpark, infrastructures
- **✓** Promoting Feed-in Tariff
- Launching HK Solar Irradiation Map

FiT Scheme Statistic (as June 2023)

22,000 Approved case
368 MW Installed capacity



Energy Efficiency Enhancement





Milestone of the Buildings Energy Efficiency Ordinance



Note: BEC = Building Energy Code

EAC = Energy Audit Code

Development of the Mandatory Energy Efficiency Labelling Scheme (MEELS)





Upgrading of Standards

2011 Phase 2

2009 - Phase 1

2019 Phase 3

Overall MEELS:

2023

2024

Annual Energy Saving (electricity as unit): 1,083 GWh

1 Sep

1 Dec

Annual CO₂ Emission: **722,620 tonnes**

Commencement date:

Full implementation date:

Approx. half of the annual electricity consumption in residential sector of HK Island



Development of the District Cooling System (DCS) in Kai Tak



DCS Operation Commenced

2013

40 million kWh



28,000 tonnes

2022

2019

Recognised by the C40 Cities Climate Leadership Group

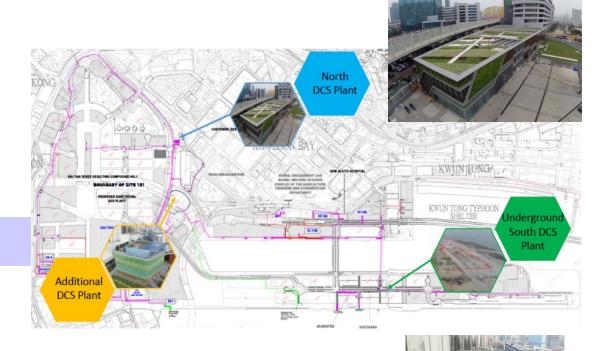
2028



138 million kWh / year



96,500 tonnes / year





Development of the District Cooling Systems (DCS)



Retro-commissioning (RCx) for major government buildings



Existing buildings are often...



- Equipped with aging equipment
- Outdated building services system control
- High energy consumption
- unsatisfactory performance of systems

Retro-commissioning (RCx) Planning Commissioning (RCx) Planning Commissioning (RCx) Planning Commissioning (RCx) Implementation Steps 3



Conduct RCx in suitable major government buildings









Wireless data collection of room condition







Smart Sensors

Workstation



RCx Competition and Experience Sharing Session





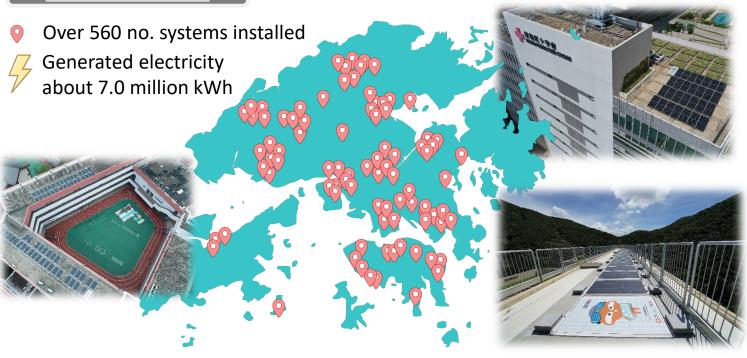


"Green Schools 2.0" - Solar Harvest



To provide one-stop service for installation of small-scale solar energy generation system at Non-government schools and Welfare NGOs

As of August 2023



Educational Kits for Primary and Secondary Schools

- Promote STEAM education
- Cultivate renewable energy and climate action awareness among the youngsters
- Launched in the academic year of 2022/23 and 2023/2024 respectively



"Green Schools 2.0" – Energy Smart



Non Profit-making & Non-Government Primary & Secondary Schools



Beneficiary: 300 Schools, over 100,000 students

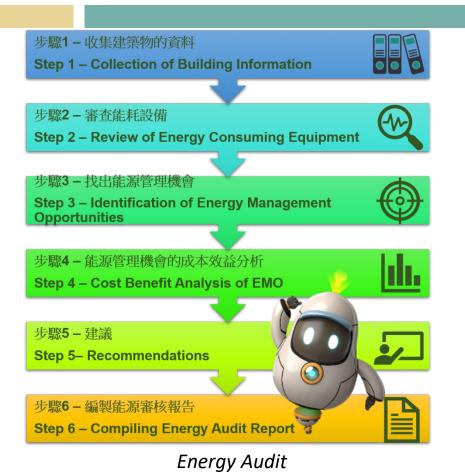


Real Time Energy Monitoring System (RTEMs) with "Energy Saving Tips" for education purpose













Beneficiary: 300 Welfare NGO premises

Target to set up common Energy Management Opportunities (EMOs) for various welfare premises

Green Tech Fund



PRIORITY THEME



Net-Zero Electricity Generation

Energy Saving and Green Buildings

Green Transport

Waste Reduction

Green I&T Day













