

# “New and Renewable Energy Technologies in Hong Kong, China”

Jan 2025



Asia-Pacific  
Economic Cooperation



Environment and Ecology Bureau  
The Government of the Hong Kong Special Administrative Region

機電工程署  
EMSD



# Fuel Mix for Electricity Generation

## No Coal for Electricity Generation



2035

Cease using coal for daily electricity generation, to be replaced by low to zero-carbon energy

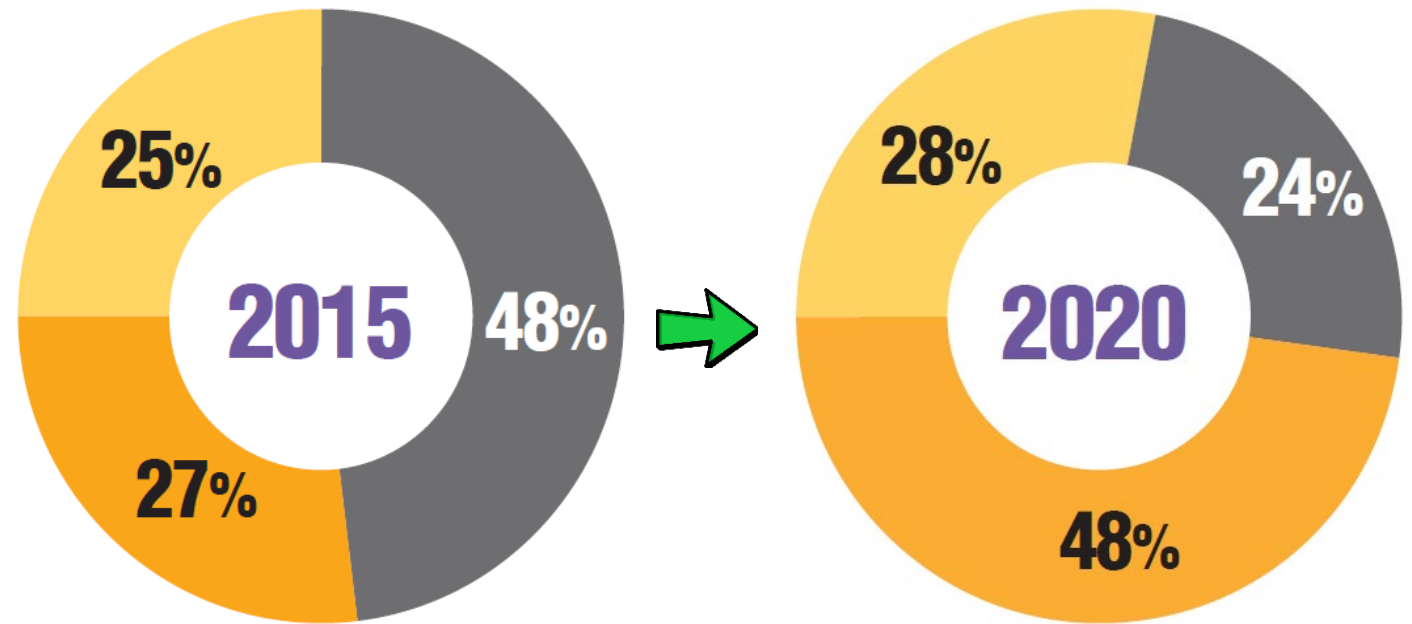
## Zero-carbon Energy



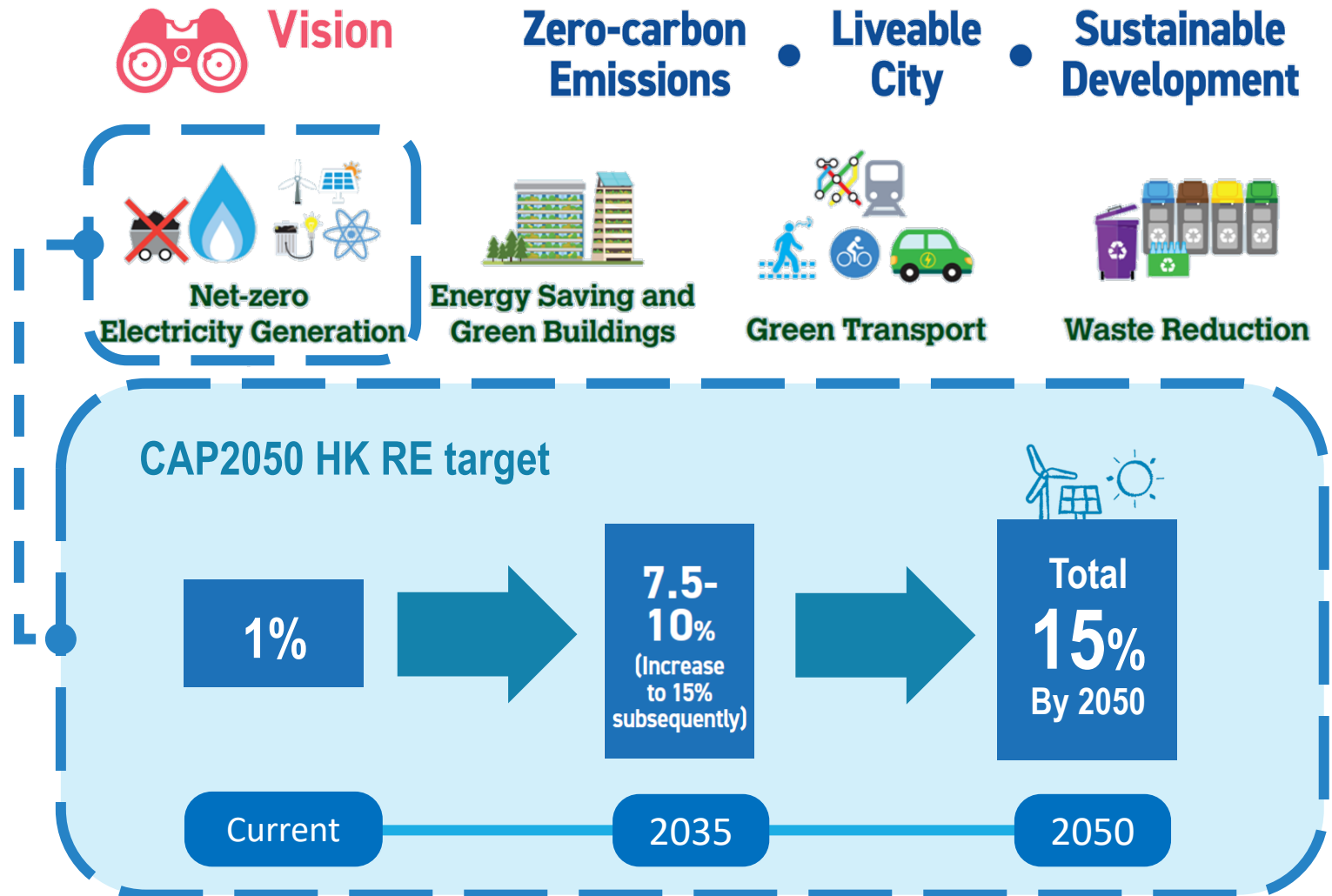
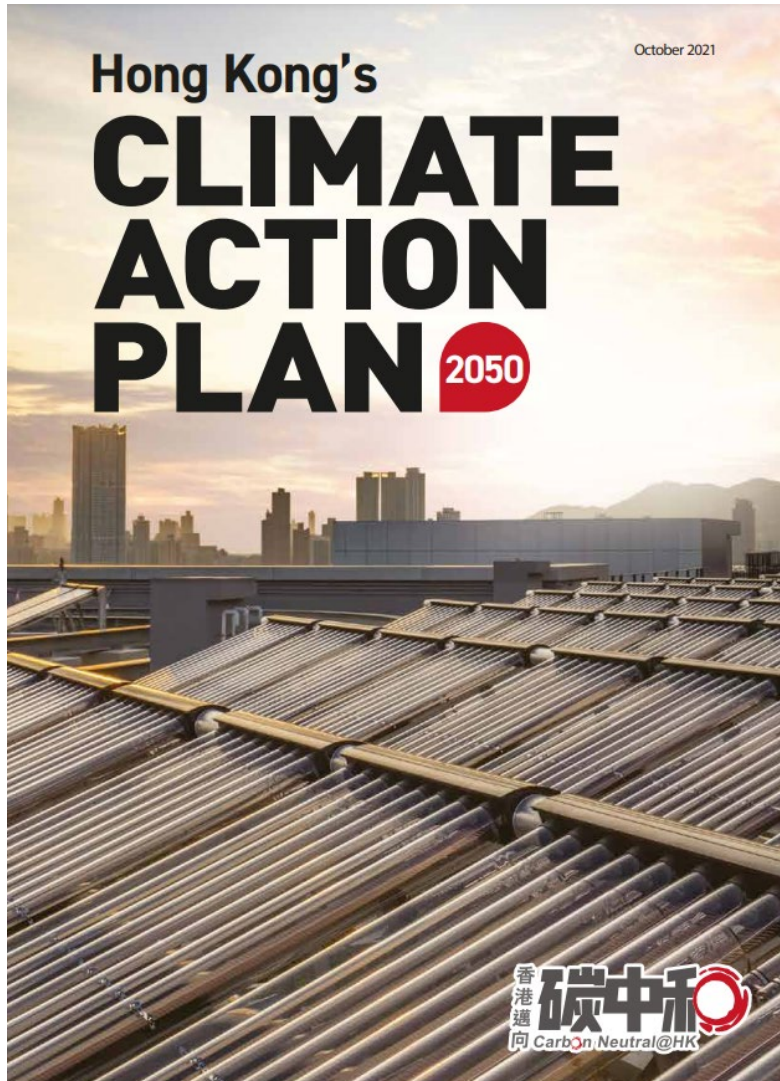
2035

**60 - 70%**

Trial of new energy and closer cooperation with neighbouring areas to increase the supply of zero-carbon electricity



# Commitment to Renewable Energy



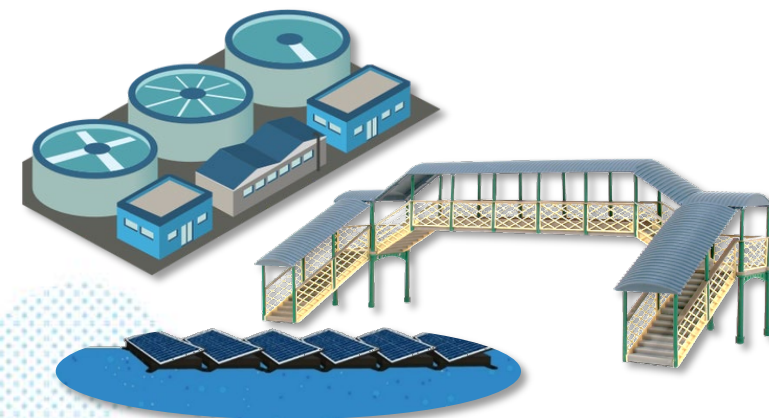


# New & Renewable Energy Technology Initiatives

Feed-in  
Tariff (FIT)  
Scheme



採電學社  
SOLAR HARVEST



RE at Non-Building Facilities



Open carpark

RE Net





# New & Renewable Energy Technology Initiatives

## Food Waste-to-Energy



**O.Park 1 commission in 2018**



**O.Park 2 commission in March 2024**

## Solid Waste-to-Energy



**Target commission in 2025**



**Target commission in 2030**



# New & Renewable Energy Technology Initiatives



Pilot Scheme on Building-Integrated Photovoltaics (BIPV) at the Electrical and Mechanical Services Department Headquarters



Photo of the BIPV Stakeholder Engagement Workshop



# New & Renewable Energy Technology Initiatives

JUNE 2024

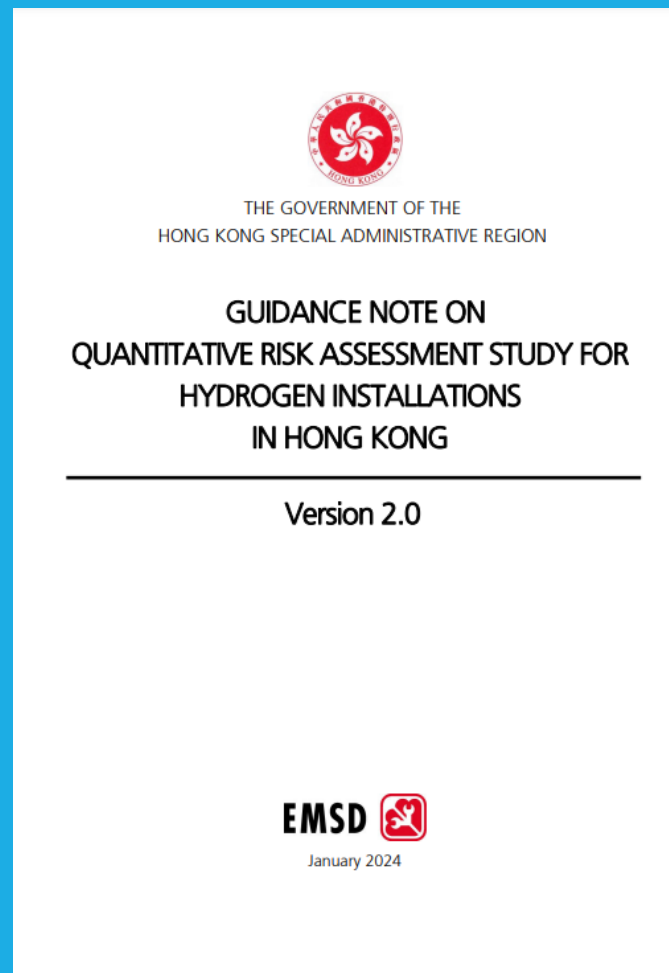
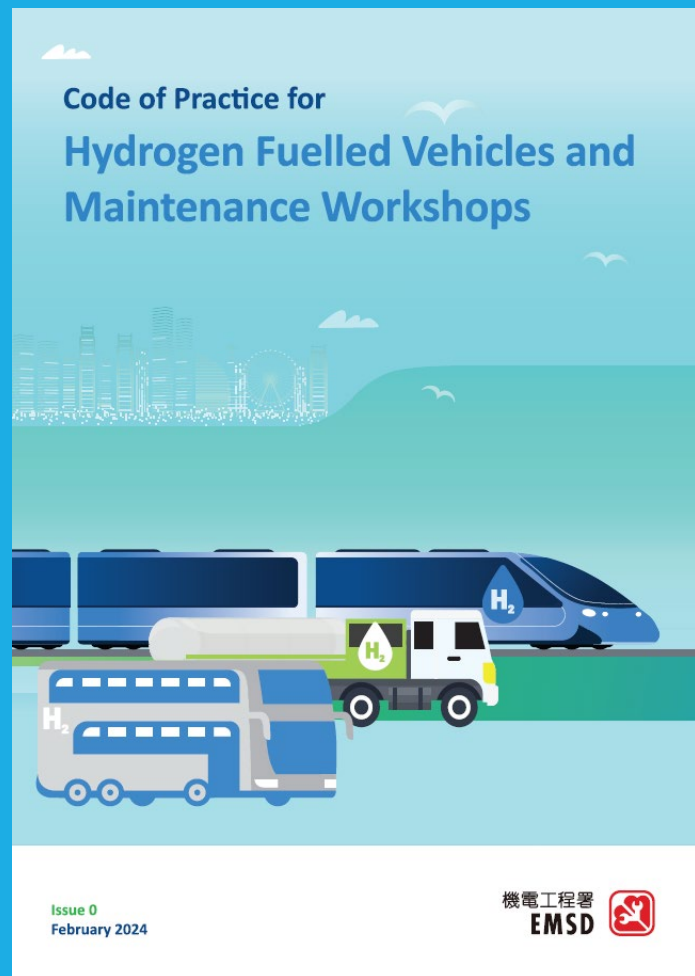
## THE STRATEGY OF HYDROGEN DEVELOPMENT in Hong Kong



### Hong Kong's Four Core Strategies for Hydrogen Development



# New & Renewable Energy Technology Initiatives





# New & Renewable Energy Technology Initiatives – Hydrogen trials



- Trial Project**
- A hydrogen filling facility at its West Kowloon Depot
  - A public hydrogen filling station at Au Tau, Yuen Long
  - A hydrogen extraction facility at its Tai Po plant
  - A HFC double-deck bus
  - Use of a hydrogen tube trailer to deliver hydrogen to a hydrogen fuelled light rail vehicle
  - A hydrogen fuelled light rail vehicle in Tuen Mun as a non-revenue train
  - Five HFC double-deck buses and a hydrogen filling facility at its bus depot in Chai Wan
  - Using hydrogen fuel to supply electricity to a site office at a construction site in Lok Ma Chau
  - Extracting hydrogen from the existing town gas network at a suitable site in Sai Kung to generate electricity for charging electric vehicles
  - Use of silicon to produce hydrogen for power generation facilities to provide electricity at a public housing construction site in Tung Chung
  - Two HFC refuse collection vehicles
  - Three HFC street washing vehicles
  - The use of hydrogen power generation equipment to supply electricity to electric machinery at a construction site in Sheung Shui
  - Production of hydrogen by using landfill gas and installation of related hydrogen filling facilities at the South East New Territories Landfill Extension



***Thank You!***

