Hong Kong's Pathway to Carbon Neutrality
K S Wong, Secretary for the Environment, Hong Kong SAR @ 6 April 2022
China will scale up its Intended Nationally Determined Contributions by adopting more vigorous policies and measures. We aim to have CO2 emissions peak before 2030 and achieve carbon neutrality before 2060.

Extracted President Xi Jinping’s statement at the General Debate of the 75th Session of the United Nations General Assembly @ Sep 2020
Hong Kong reached its GHG emissions peak in 2014 and strives to achieve carbon neutrality before 2050.
Over the last decade, Hong Kong has allocated over HK$47B (~USD 6B) to implement various energy saving and renewable energy measures, promote electric vehicles & vessels, and introduce waste-to-energy and waste-to-resources facilities.
In their last and current development plans spanning 10 years, the investment of the two power companies in major decarbonization projects amounts to HK$39B (~USD 5B).
Hong Kong’s Climate Action Plan 2050

Strategies and Opportunities

Net-zero Electricity Generation - Energy Saving and Green Buildings

Green Transport

Adaptation and Resilience

Decarbonisation

Reduce Cost for Electricity Generation

Infrastructure

Innovation

Interaction

Integration

In 2019, electricity generation accounted for about 66% of total carbon emissions. Hong Kong will gradually reduce the use of fossil fuels and equate the use of other zero-carbon energy sources with coal.

No Cost for Electricity Generation

2035

60-70% reduction of total new energy and demand-side management.

Energy Saving and Green Buildings

Reduce the carbon intensity of electricity generation by 2050 with the help of renewable energy.

Zero-carbon Energy

2035

60-70% reduction of total new energy and demand-side management.

Electricity Consumption[Energy from renewable sources]

15-28% reduction of electricity consumption.

Electrical Industry

2035

60-70% reduction of total new energy and demand-side management.

Renewable Energy ETR

7.5-10% increase in energy efficiency

Transport

2035

Car travel by public transportation, increase in energy efficiency.

Green Finance

2035

Increase investment in green and sustainable technologies.

Technology and Innovation

2035

Promote the use of renewable energy technologies and improve energy efficiency.

Green Screen

2035

Increase investment in green and sustainable technologies.

Climate change

2035

Increase investment in green and sustainable technologies.

Zero-carbon Buildings

2035

Achieve full energy consumption from renewable energy.

Cooperation and Innovation

2035

Increase investment in green and sustainable technologies.

Smart City

2035

Increase investment in green and sustainable technologies.

Retrofitting

2035

Increase investment in green and sustainable technologies.

Green Building

2035

 Increase investment in green and sustainable technologies.

Investment

Infrastructure

Innovation

Interaction

Integration
Hong Kong’s Climate Action Plan 2050

Investment

- Climate Budget: HK$240B (~USD 31B) in the next 15-20 yrs
- Government Green Bond Programme (since 2019)
- Green & Sustainable Finance Cross-Agency SG (since 2020)
- Green Finance Hub development in the region

Decarbonisation

- Reduce CO2 Emissions
- Increase Renewable Energy
- Energy Efficiency
- Electric Vehicles
- Carbon Capture and Utilisation

Adaptation and Resilience

- Climate Change Working Group on Infrastructure
- Major Studies
- Strengthening Infrastructure
- Topical Studies

Net-zero Electricity Generation + Energy Saving and Green Buildings

- Electricity from Solar
- Energy from Waste
- Heat Pump Technologies
- Energy Management Systems
- Energy Storage Systems

Government Green Bond Programme (since 2019)

Green & Sustainable Finance Cross-Agency SG (since 2020)

Green Finance Hub development in the region
Hong Kong’s Climate Action Plan 2050

Innovation
- Green Tech Fund (for decarbonization and green projects)
- Smart Meters (for all electricity meters in Hong Kong)
- Marketization of EV Charging (in public/commercial carparks)
- Smart Recycling (e.g. RVM for plastic beverage bottles)
Hong Kong’s Climate Action Plan 2050

Interaction
C40 Cities
Eco Expo Asia (annual trade show and green conference)
Greater Bay Area (closer regional collaboration)
Task Force (on new decarbonization technologies globally)
Hong Kong launched 4 environmental blueprints in 2021:

- **Waste Blueprint for Hong Kong 2035**
- **Roadmap on Popularisation of Electric Vehicles**
- **Clean Air Plan for Hong Kong 2035**
- **Climate Action Plan for Hong Kong 2050**
Number of EV in newly registered private cars (1:4 in 2021)

New Energy Transport Fund (on commercial vehicles etc)

Private charging infrastructure (> 150,000 by 2025)

Public charging infrastructure (> 5,000 before 2025)

Green Tech Fund (on hydrogen, EVB technologies etc)
Roadside/General Air Quality ▲ Per Capita Carbon Footprint

Integration . . . . .
Integration

**Opportunities**

- Green Finance
- Green Economy
- Technology & Innovation
- Capacity Building
- Carbon-neutral Community

**Challenges**

- Cost of Decarbonization
- Space Constraint
- Technology Breakthrough
- Demand for Talent
- Participation for All
Hong Kong's Carbon Neutrality Partners