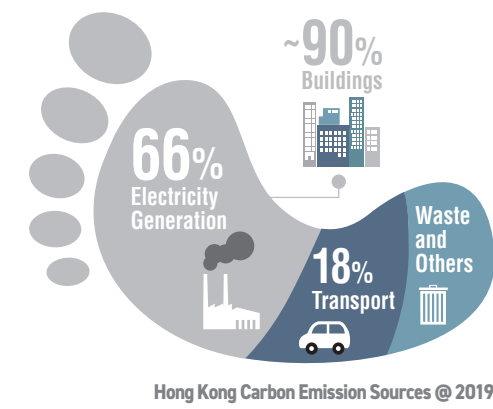


Hong Kong's CLIMATE ACTION PLAN 2050

October 2021



Retrospect and Prospect



Decarbonisation

Over the past decade, the Government has allocated over \$47 billion to implement various carbon reduction measures. The two power companies have also allocated about \$39 billion to decarbonisation projects

Reduce Coal for Electricity Generation

Reduce the share of coal in the fuel mix for electricity generation from around half in 2015 to less than a quarter

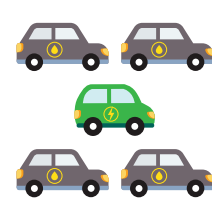
Energy Saving and Green Buildings

About 2.1 billion kWh of electricity was saved in 2020 as compared with 2015 (-4.7%)



Electric Vehicles (EVs)

In the first half of 2021, one out of every five newly registered private cars is EV



Adaptation and Resilience

The Climate Change Working Group on Infrastructure: Major Studies

Strengthening Infrastructure

- Study on resilience of Government critical infrastructure in Hong Kong under extreme weather
- Sensitivity test under direct hit by super typhoons
- Frequency analysis of extreme sea levels

Tropical Cyclones

- Projection of extreme winds

Extreme Temperatures

- Study on potential impacts on Government infrastructure under extreme temperatures

Reduce Flood Risk

Eliminated 127 flooding blackspots, improvement works for the remaining 4 black spots will be completed in phases

Contingency Plan for Natural Disasters

Inter-departmental Steering Committee chaired by the Chief Secretary for Administration to handle natural disasters of a substantial scale

Contingency Plan for Transport System

Update contingency plans to handle emergency situations at major transport infrastructure

Emergency Alert System

Disseminate messages to mobile users during emergency situations to remind the public to adopt contingency measures



Zero-carbon Emissions • Liveable City • Sustainable Development

Roadmap to Carbon Neutrality

Strategies • Opportunities

Moving towards carbon neutrality can bring ample and diverse development opportunities, enhance Hong Kong's competitiveness and support sustainable development

Steering and Coordination

The Steering Committee on Climate Change and Carbon Neutrality under the chairmanship of the Chief Executive to formulate the overall strategy

Climate Budget

Allocate ~\$240 billion to combat climate change in the next 15 to 20 years

Office of Climate Change and Carbon Neutrality

Set up a new office to strengthen coordination and promote decarbonisation

Advisory Committee

Establish a dedicated advisory committee to encourage public participation, including young people

Public Engagement

Government to work together with different sectors to promote low-carbon lifestyle

Green Finance

Accelerate the development of green and sustainable finance, develop Hong Kong into a green financial hub in the region

Green Economy

Facilitate the development of green industries, create investment and job opportunities

Technology and Innovation

Promote I&T development and re-industrialisation, facilitate the application of decarbonisation technologies and green R&D

Capacity Building

Climate change-related content to be incorporated into the curricula of tertiary institutions

Carbon-neutral Communities

Develop strategic growth areas into carbon-neutral communities

Challenges

- Cost of Decarbonisation
- Space Constraint
- Technology Breakthrough
- Extreme Weather
- Demand for Talent
- Participation for All

Net-zero Electricity Generation • Energy Saving and Green Buildings

In 2019, electricity generation accounted for about 66% of total carbon emissions. Hong Kong will gradually reduce the use of fossil fuel and expedite the use of clean zero-carbon energy

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

Renewable Energy (RE)

2035 7.5-10% (Increase to 15% subsequently)

Public and private sectors to develop RE proactively to increase its share in the fuel mix for electricity generation

Cooperation and Innovation

Seek investment and development opportunities, participate in and operate zero-carbon energy projects near Hong Kong

Electricity Saving in Buildings

2035

Electricity consumption (Compared with 2015)

COMMERCIAL BUILDINGS 15-20% (Reduce by 30-40% subsequently)

RESIDENTIAL BUILDINGS 10-15% (Reduce by 20-30% subsequently)

Strengthening Regulation

Continuous enhancement of energy performance of buildings

- Expand the scope of regulation to cover all buildings with high energy consumption
- Conduct more frequent energy audits
- Implement the identified energy management opportunities
- Strengthen the promotion of retro-commissioning

Explore setting a minimum energy efficiency requirement for specified appliances

Smart Management

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

Incorporate district cooling systems in development projects

Green Transport

Transport constituted about 18% of total carbon emissions in 2019. Popularisation of EVs and other new energy transport can help the transport sector achieve zero carbon emissions

Clean Air Plan for Hong Kong 2035

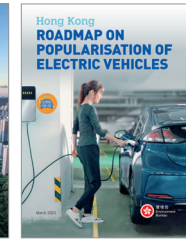
Hong Kong Roadmap on Popularisation of Electric Vehicles

2035

Implement strategies in the Clean Air Plan to promote adoption of new energy transport to expedite low-carbon transformation

2050

Take forward measures set forth in the EV Roadmap to attain zero vehicular emissions before 2050



Hydrogen Fuel Cell Vehicles

Within 3 years

Test out hydrogen fuel cell buses and heavy vehicles

Electric Private Cars

2035

Cease the new registration of fuel-propelled and hybrid private cars in 2035 or earlier

New Energy Transport

2035

Progressively adopt new energy ferries

Waste Reduction

Waste accounted for about 7% of total carbon emissions in 2019. Developing waste-to-energy facilities and promoting waste reduction and recycling will enable us to move away from reliance on landfills for municipal waste disposal

Waste Blueprint for Hong Kong 2035

2035

Implement the Waste Blueprint for Hong Kong 2035 to realise the vision of "Waste Reduction • Resources Circulation • Zero Landfill"

Municipal Solid Waste Charging

2023

Prepare for implementation of waste charging, encourage waste reduction and recycling, and strengthen community facilities and support

Regulation of Disposable Plastic Tableware

2025

Regulate disposable plastic tableware, etc. in phases, reduce plastic at source

Waste-to-energy

2035

Develop adequate waste-to-energy facilities, move away from reliance on landfills for municipal waste disposal

