### K S Wong, Secretary for the Environment Hong Kong SAR Towards Carbon Neutrality 邁向碳中和

Hong Kong Exchanges and Clearing Limited (HKEX) : ESG Academy Webinar : Path to Decarbonisation with Climate Transparency 2021.11.10

# 2017.01.20



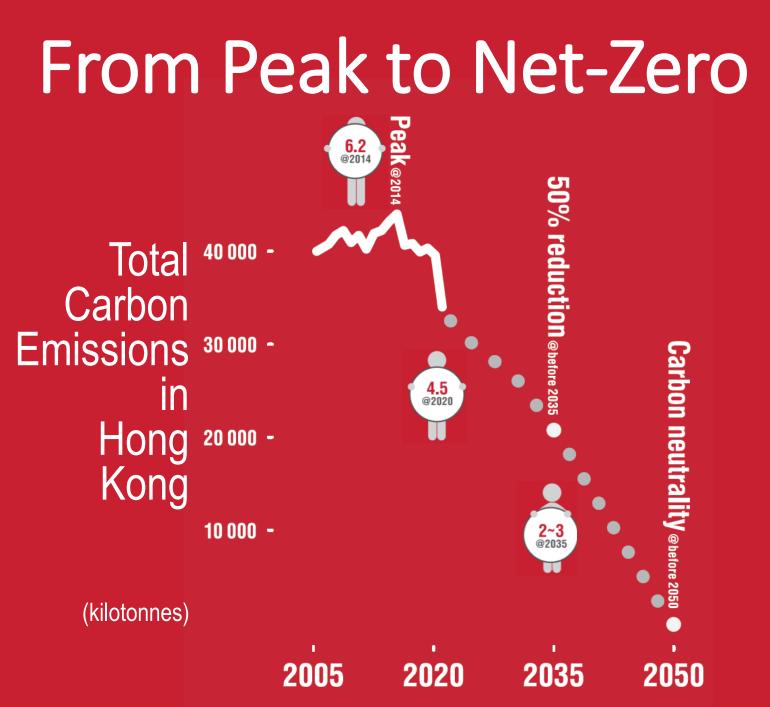
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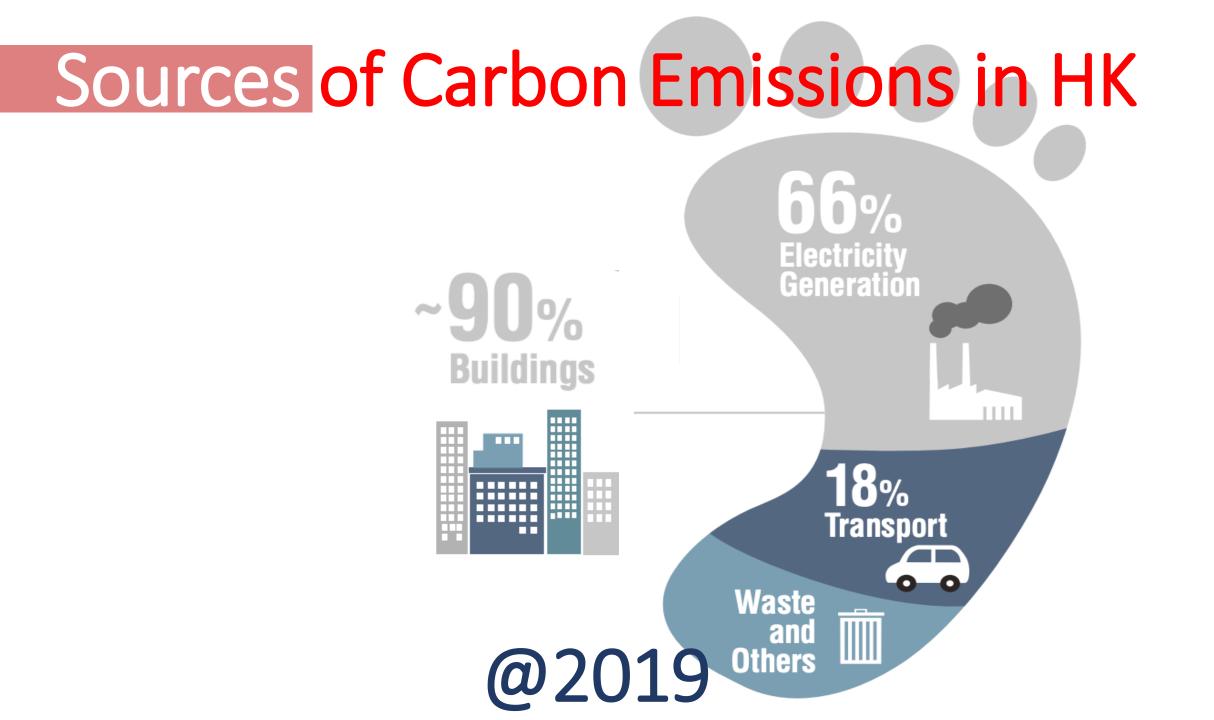
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# Carbon Neutrality before 2050



October 2021 Hong Kong's CLIMATE ACTION PLAN 2050





@2021



### Hong Kong's Climate Action Plan



### Carbon Neutrality before 2050

### Retrospect



#### 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

# a quarter

**Reduce Coal for** 

Reduce the share

of coal in the fuel

mix for electricity

generation from

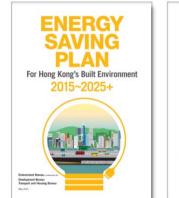
2015 to less than

around half in

Electricity

Generation

Energy Saving and Green Buildings About 2.1 billion kWh of electricity was saved in 2020 as compared with 2015 (-4.7%)



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Electric Vehicles (EVs)

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



**Net-zero Electricity Generation • Energy Saving and Green Buildings** 

# ~4.7% electricity was saved in 5 years

# **HK's Roadmap to Carbon Neutrality**

#### 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

#### Renewable Energy (RE)



#### (Increase to 15% subsequently)

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



#### Zero-carbon Energy



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

#### **Cooperation and Innovation**

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



Decarbonisation comes at a price. Buildings account for about 90% of Hong Kong's total electricity consumption. Promoting energy conservation and improving energy efficiency can help reduce the cost of transformation

#### Electricity Saving in Buildings





(Reduce by 30-40%) subsequently)

COMMERCIAL

BUILDINGS

15-20%

#### Strengthening Regulation

#### Continuous enhancement of energy performance of buildings

- Expand the scope of regulation to cover al 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



RESIDENTIAL BUILDINGS

(Reduce by 20-30%)

subsequently)

10-15%







systems in

projects

# **HK's Roadmap to Carbon Neutrality**

Waste Reduction

Waste accounted for about 7% of total carbon emissions in

2019. Developing waste-to-energy facilities and promoting

2035

**Regulation of** 

Disposable

#### **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

2050



Implement strategies Take forward in the Clean Air Plan measures set forth to promote adoption in the EV Roadmap of new energy to attain zero transport to expedite vehicular emissions low-carbon before 2050 transformation

#### Hydrogen Fuel Cell Vehicles





Test out hydrogen fuel cell electric buses and heavy vehicles







Electric

Private Cars

#### 2035 Progressively adopt new energy

#### hybrid private cars in 2035 or earlier







ferries

#### waste reduction and recycling will enable us to move away from reliance on landfills for municipal waste disposal

#### Waste Blueprint for Hong Kong 2035



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



2023

**Plastic Tableware** وليستعاد 2025



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

Waste-

energy

ن مع ال

2035

to-

### **Green Transport** • **Waste Reduction**



# HK's Climate Action 2050 Opportunities

### **Green Finance**

**Develop Hong Kong into a green financial hub in the region** 

### **Green Economy**

Develop green industries, create investment and job opportunities

### **Technology & Innovation**

Promote decarbonisation technologies and green R&D

### **Capacity Building**

Climate change-related content in the curricula of tertiary institutions

### **Carbon-Neutral Communities**

**Develop strategic growth areas into carbon-neutral communities** 

### e.g. Northern Metropolis

### HK's Climate Action 2050 Strategy

Steering Committee + New Office on Climate Change and Carbon Neutrality

HK\$240 billion Climate Budget in the next 15 to 20 years

**Advisory Committee + Public Engagement** 

(e.g. Green & Sustainable Finance Cross-Agency Steering Group)

# HK's Green & Sustainable Finance

The Green and Sustainable Finance Cross-Agency Steering Group was set up in May 2020 and is co-chaired by the Hong Kong Monetary Authority and the Securities and Futures Commission, with members comprising :

- Environment Bureau
- Financial Services and the Treasury Bureau
- Hong Kong Exchanges and Clearing Limited
- Insurance Authority
- Mandatory Provident Fund Schemes Authority



# **HK's Green & Sustainable Finance**

It aims to co-ordinate the management of climate and environmental risks to the financial sector, accelerate the growth of green and sustainable finance in HK and support the Government's climate strategies



Strengthen the management of climate-related financial risks to consolidate Hong Kong's position as a global risk management centre



Encourage innovation and explore initiatives to facilitate capital flows towards green and sustainable causes



Promote the flow of climate-related information at all levels to facilitate risk management, capital allocation and investor protection



Enhance capabilities of market participants and raise awareness among the general public



Capitalise on the opportunities presented by the Mainland to develop Hong Kong into a green finance centre in the Guangdong-Hong Kong-Macao Greater Bay Area



Strengthen regional and international collaboration

Green and Sustainable Finance Cross-Agency Steering Group December 2020

### "Carbon Neutrality" Partnership 2021

# Launching Ceremony@2021.10.29

### **VISION:**

### Zero-Carbon Emissions

# **Livable City**

Sustainable Development

