Energy Development in Hong Kong, China

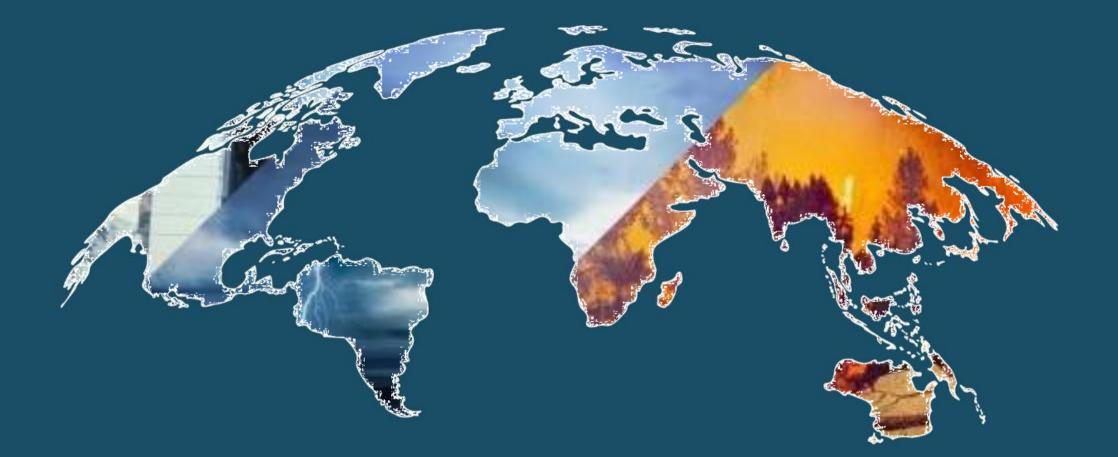
Mr Eric PANG Director of Electrical and Mechanical Services 15 March 2023





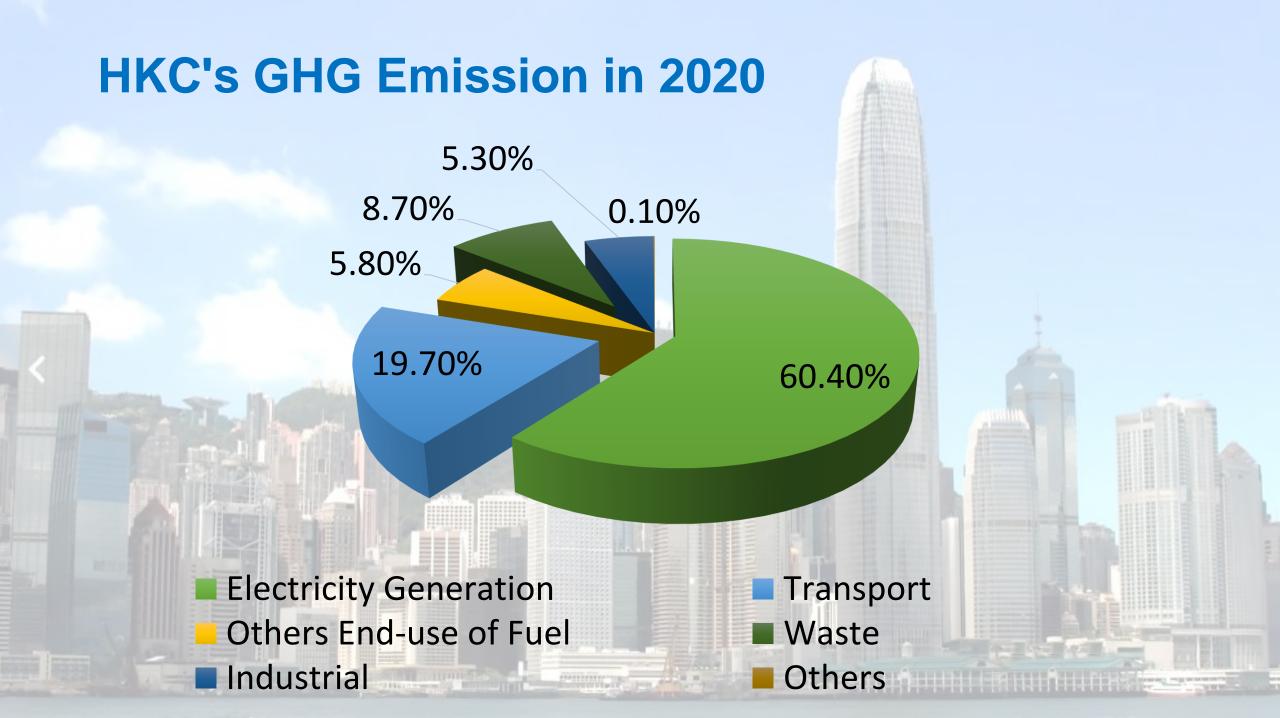






Climate Change





Hong Kong's Climate Action Plan 2050

Vision

Zero-carbon Emissions

Liveable **Sustainable Development** City



Net-zero



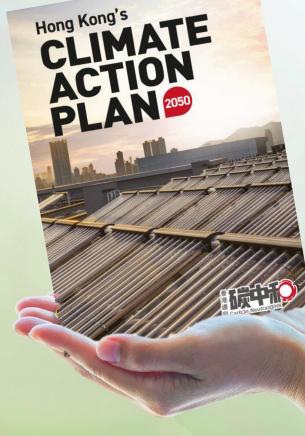
Energy Saving and Green Buildings Electricity Generation



Green Transport



Waste Reduction





Cease Using Coal for Electricity Generation



Net-zero Electricity Generation

Coal-fired Power Plant

2035

Natural gas and zero-carbon power plant

Floating Storage Regasification Units (FSRU)

Transition to Carbon Zero

605

aturo

Renewable Energy

Renewable Energy (RE)



(Increase to 15% subsequently)

APPLICATION SITE (SITE A)

Restored landfills

an on a

PV at Rooftops

Floating PV at Reservoirs

Waste to energy

O·PARK1

T·**P**ARK

. O∙PARK¶

> Food waste and sludge codigestion at Tai Po Sewage

150 TJ (42 M-kWh) of Generation

O·PARK2

2023

12,700 households

Shatin Sewage Treatment Works

Waste to energy

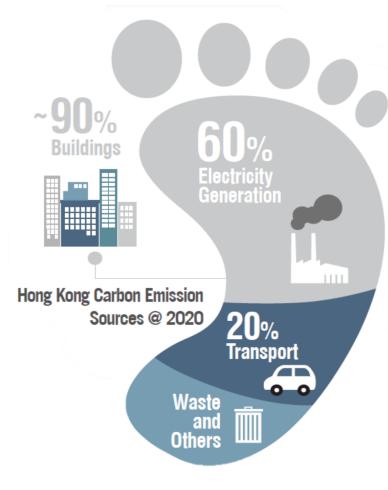
Integrated Waste Management Facilities (IWMF) Phase 1, Shek Kwu Chau

1,725 TJ (480 M-kWh) of Generation 145,000 households

Energy Transition



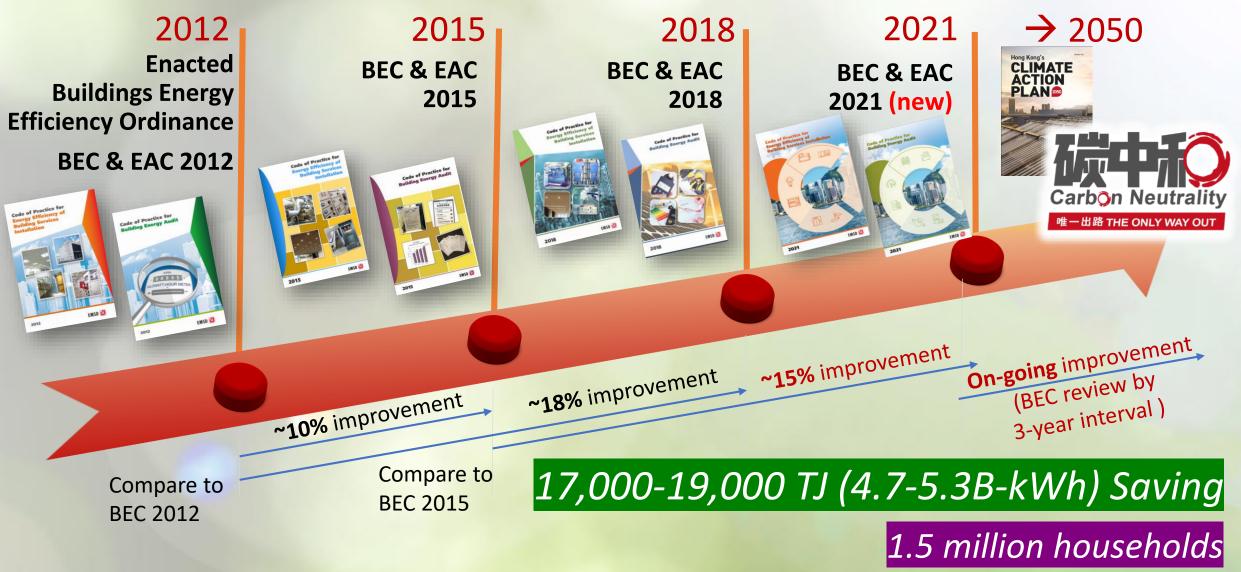
Energy Efficiency Enhancement



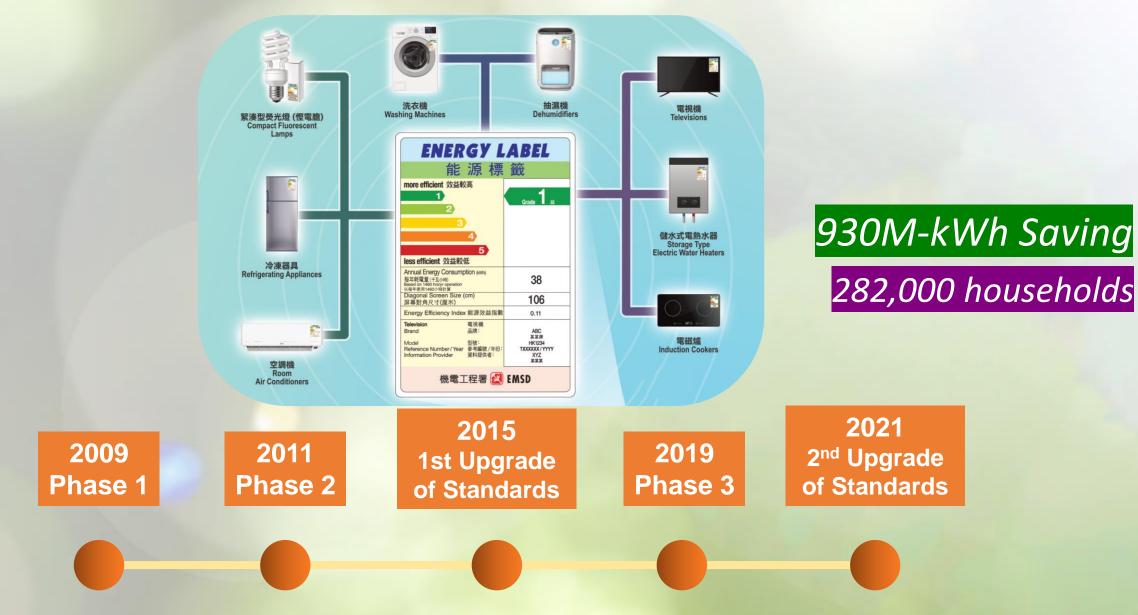


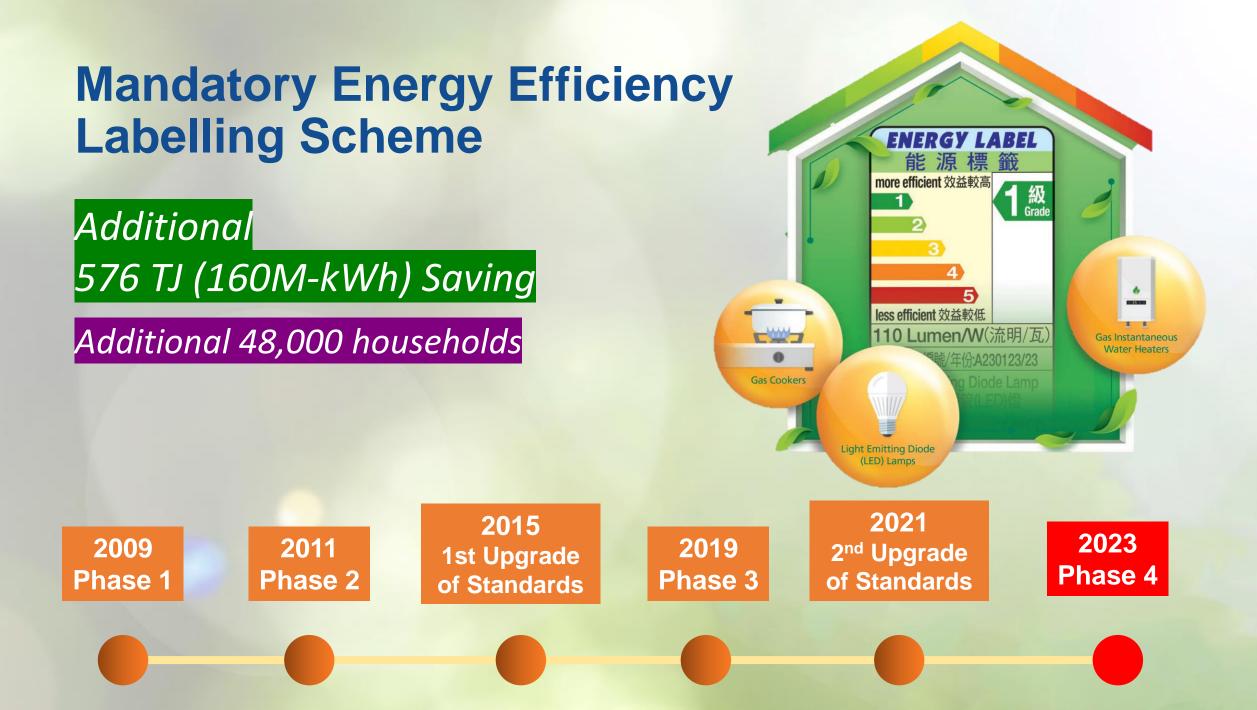


Buildings Energy Efficiency Ordinance

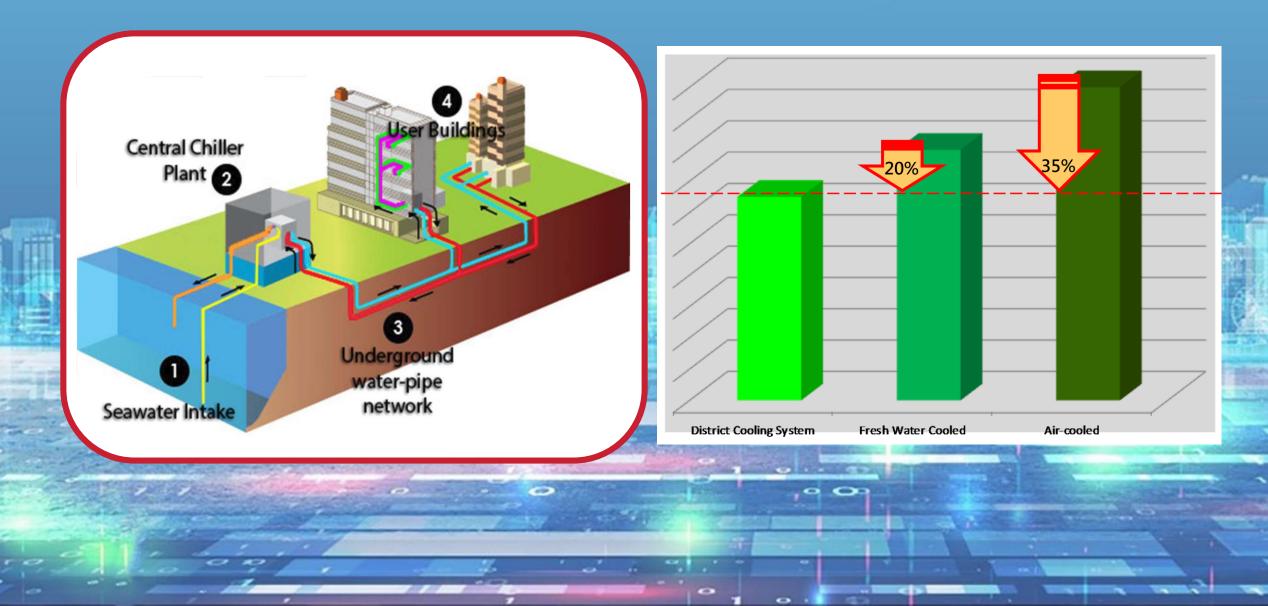


Mandatory Energy Efficiency Labelling Scheme





District Cooling Systems (DCS)





Green Transport - Public transport-oriented policy



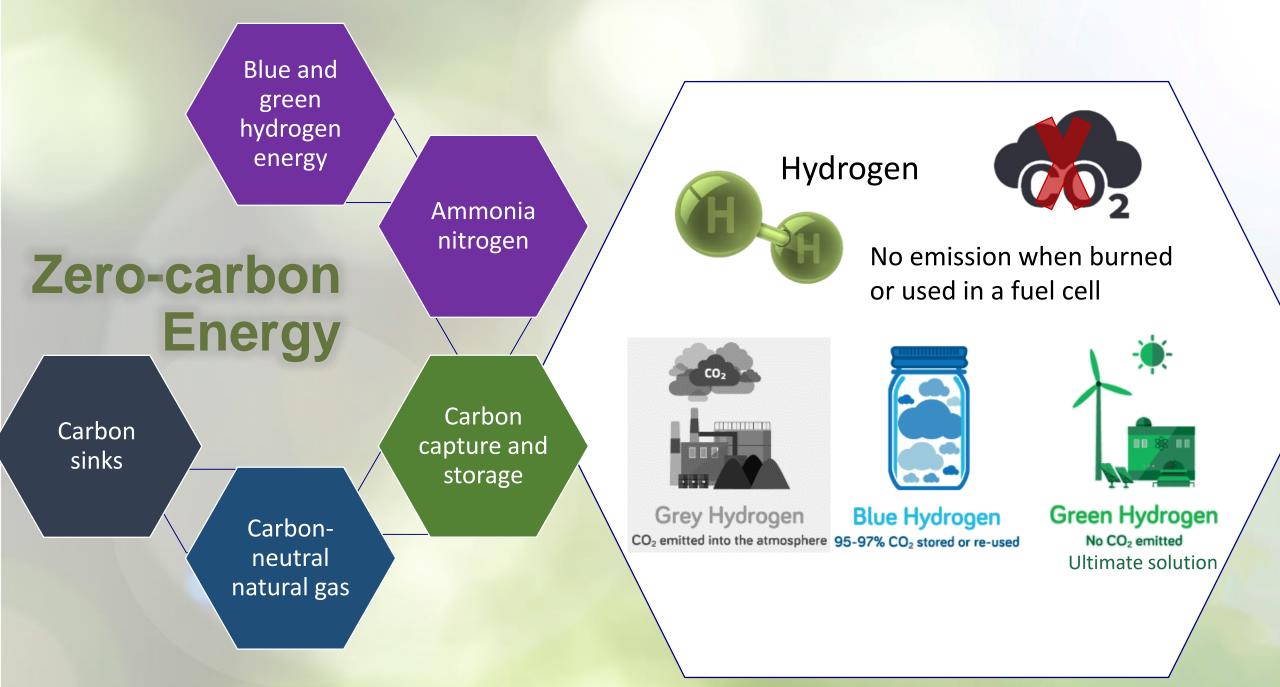
Source of image: TD, MTR, hongkongfp.com

Green Transport

2022:

Promoting the Use of Electric Vehicles (EVs

53 % of newly registered private cars was EV



Inter-departmental Working Group on Using Hydrogen as Fuel (IWGUHF)

Environmental and Ecology Bureau Development Bureau Transport and Logistics Bureau

Security Bureau



Hydrogen as FUEL



Risk





Hydrogen **Filling Facility**





Hydrogen Fuel cell Electric bus

Green Financ

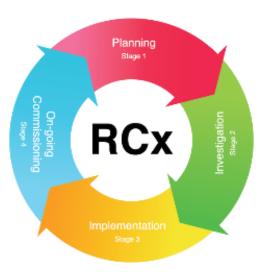
Climate Change Mitigation and Adaptation

Last decade, over US\$ 6 billion to emission reduction measures.

Coming decade, about US\$ 30 billion

Since 2018, Government Green Bond Programme – around US\$10 billion

Regional Collaboration





Memorandum of Co-operation on the Retro-Commissioning of buildings

Memorandum of Cooperation on Building Energy Saving Retrofit in Guangdong-Hong Kong-Macao Greater Bay Area



RCx training programme





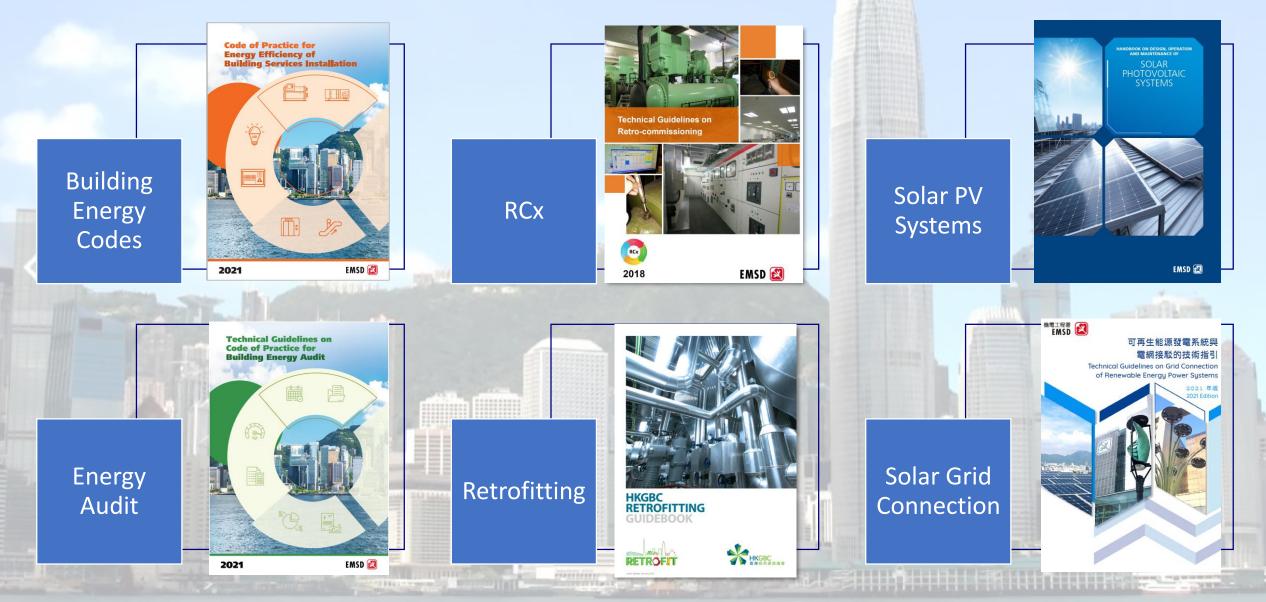


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Asia-Pacific Economic Cooperation

> Gold Rank "Pillar Smart Jobs and Consumers" 2022 the 5th APEC Energy Smart Communities Initiative (ESCI) Best Practices Awards Program

Technical Guidelines and Best Practices





Amalgamate to Protect our Environment Collaboratively





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



EGEEC 6 Hong Kong, China

Thank You

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