"Economy Movement Towards Carbon Free Electricity"

Hong Kong, China

April 2023





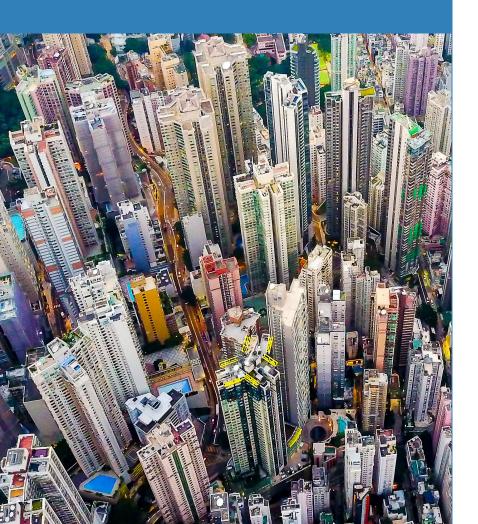


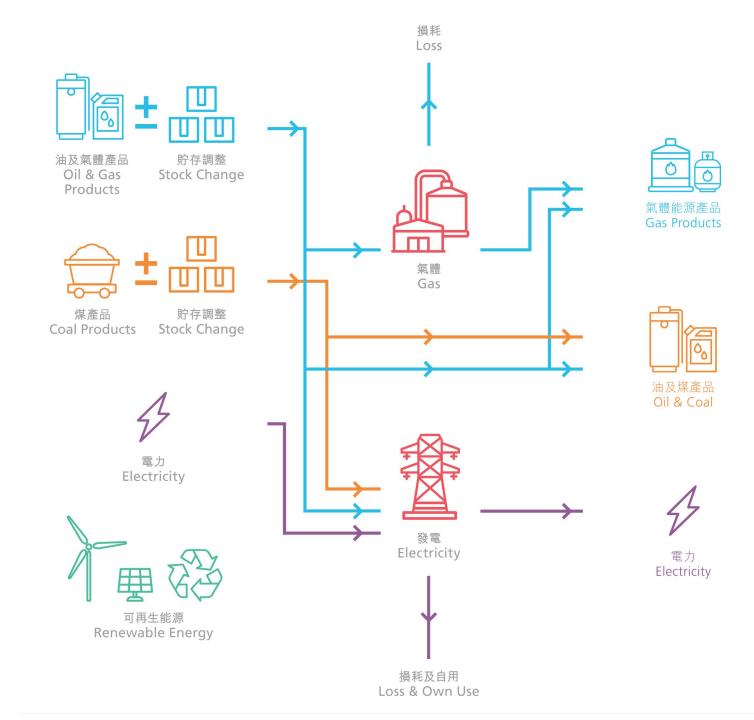


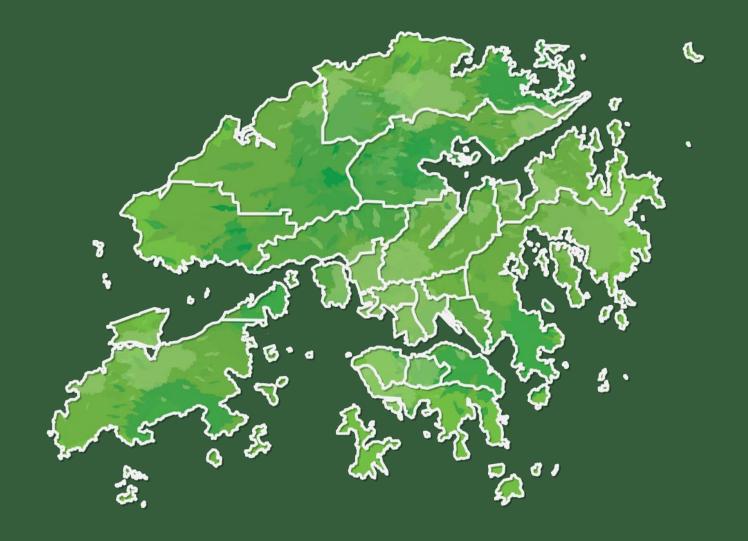


Climate Change

Energy Mix in HKC

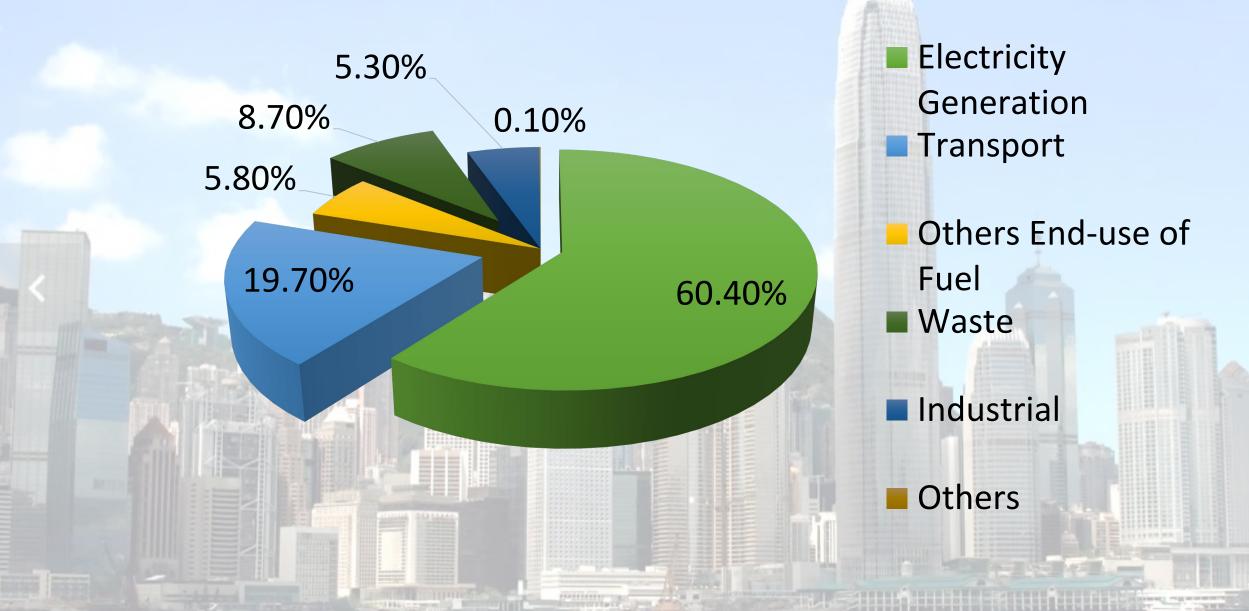






Hong Kong, China

HKC's GHG Emission in 2020



Hong Kong's Climate Action Plan 2050



Zero-carbon Emissions Liveable City

Sustainable Development



Net-zero Electricity Generation



Energy Saving and Green Buildings



Green Transport



Waste Reduction







Net-zero Electricity Generation



Cease Using Coal for Electricity Generation

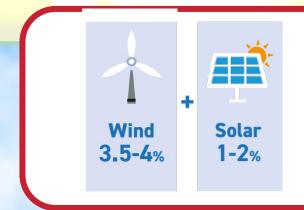








RENEWABLE ENERGY



Development of an Offshore Wind farm in Hong Kong





Total Accumulated Energy Generation: 5,158,200 kWh

Equivalent to Monthly Electricity
Consumption of about 18,760 families

Last update on 13 Mar 2023











Waste Reduction





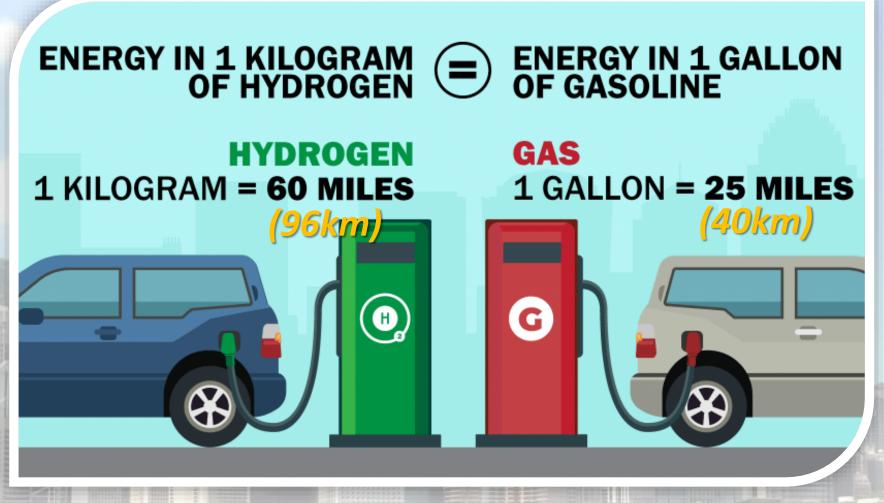




HKC's unique advantage in Hydrogen Supply



Hydrogen as "New Zero-carbon" Energy



Source: The U.S. Department of Energy

Inter-departmental Working Group on Using Hydrogen as Fuel

Environmental and Ecology Bureau

Development Bureau

Transport and Logistics Bureau

Security Bureau



EPD



EMSD



FSD



TD



MD



ArchSD



BD



LandsD



PlanD



R&D for Hydrogen as fuel



Compliance



2023: Trials of hydrogen fuel cell electric double-deck buses and heavy vehicles





Risk
assessments
on hydrogen
refilling
stations



Hydrogen Filling Facility



Research & Development

Blue and green hydrogen energy

Zero-carbon **Energy**

Carbon sinks

> Carbonneutral natural gas

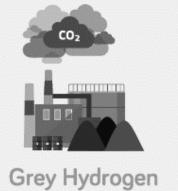
Ammonia nitrogen

Carbon capture and storage

Hydrogen



No emission when burned or used in a fuel cell







Blue Hydrogen



No CO₂ emitted Ultimate solution









