



The 51st APEC EGNRET Meeting

Hong Kong, China

11-13 September 2018









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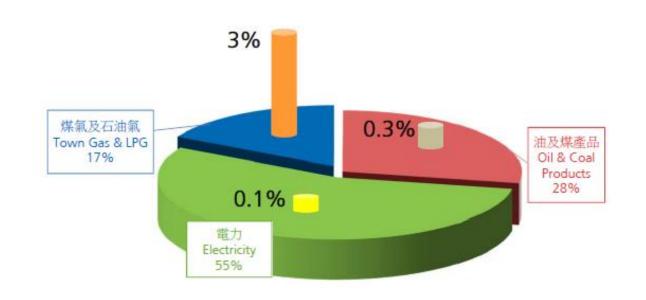
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Energy End-use of RE in Hong Kong, China

- In 2015, the energy finally consumed was 287,986 TJ.
- Gaseous RE about 3% of the "Town Gas & LPG".
- Oil type RE about 0.3% of the "Oil & Coal Products.
- Renewable electricity about 0.1% of the "Electricity Consumption"



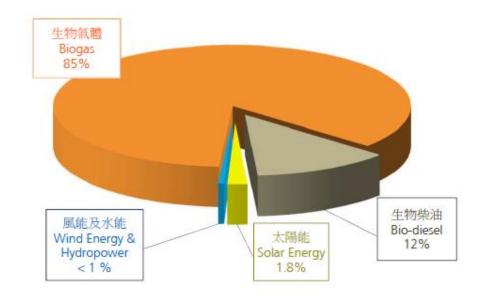






Energy End-use of RE in Hong Kong, China

- In 2015, around 1,899 TJ of RE of various types were produced and consumed by end uses.
- Renewable Energy accounts for about 0.66% of Energy End-use





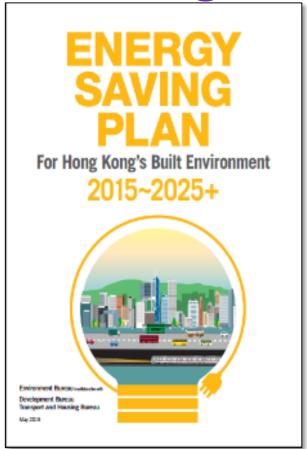




Policy for Promoting RE



Year 2025













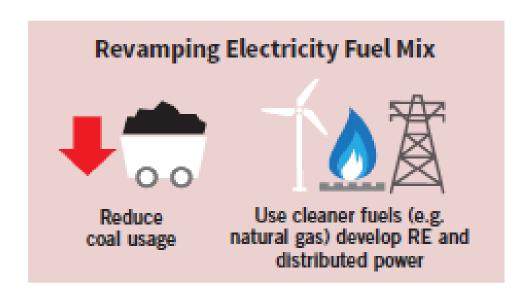


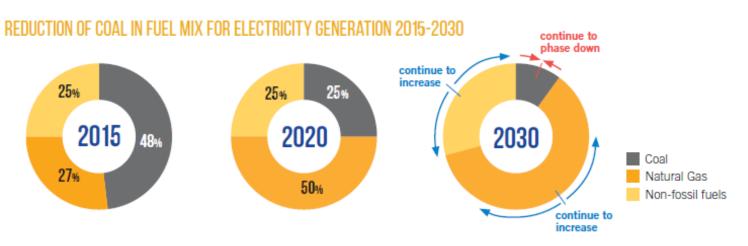






Energy Mix of Hong Kong, China





Fuel Switch for Electricity Generation





Policy for Promoting RE

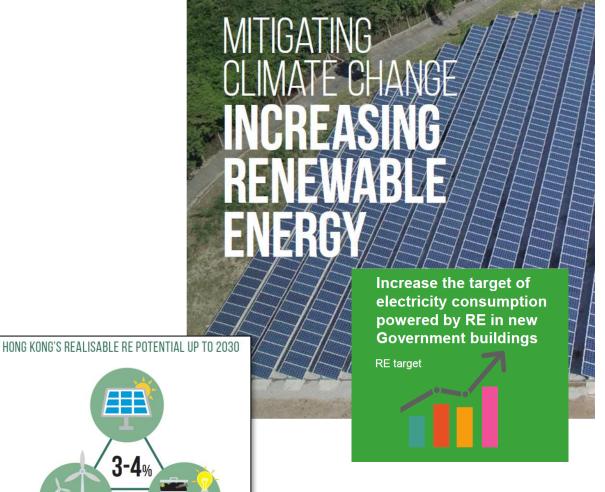
For Public Sector

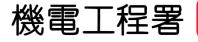
- Strengthened guidelines for Government premises to adopt RE;
 - 1.5% RE for electricity consumption in new schools and educational building;
 - 25% RE for lighting in public park;
 - 10% available roof space for RE
- Government premises and infrastructure – invest \$1 billion in RE starting from 2017.



3-4%

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Policy for Promoting RE

For Private Sector

Feed-in Tariff





 Feed-in Tariff is about 3-5 times of normal tariff depending on the scale of RE system including wind and PV



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RE Certificates



Community can show its support for RE through purchasing RE Certificates

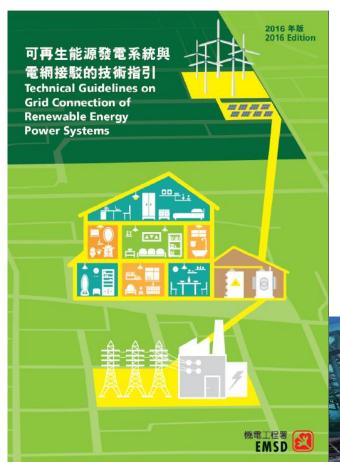




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Policy for Promoting RE

















Microgrid System – Town Island RE Supply Project

- Projects completed in late 2012.
- Powers a non-profit drug rehabilitation centre, is Hong Kong's first commercial-scale standalone RE supply.
- It comprises 672 solar panels, two wind turbines and 576 batteries, with a generating capacity of up to 200 kW.
- Batteries capable of storing over 1,000 kWh of electricity to provide a power supply lasting for around 30 hours.





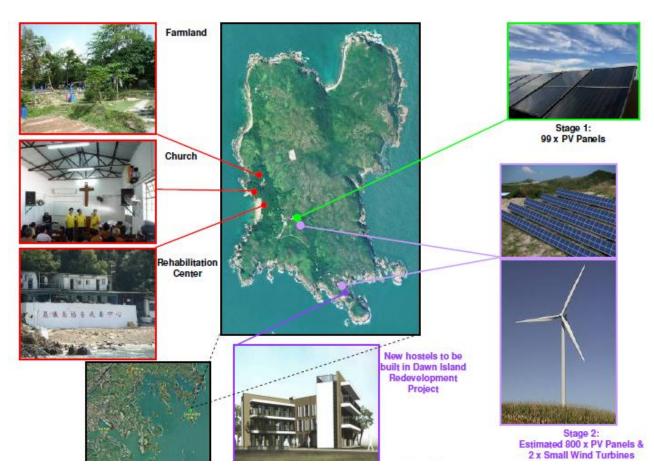






Microgrid System – Town Island RE Supply Project

- Submarine Cable Option
 - Impact on undersea corals
- Overhead Line Option
 - Visual Intrusion
 - Marine navigation safety
- Bio-diesel Generator Option
 - Diesel transportation & storage
 - Monthly maintenance
 - Noise & Air pollution











Microgrid System – Town Island RE Supply Project

- Why Solar and Wind Energy?
 - No obstruction to sunlight
 - Hybrid sources of solar and wind energies could enhance the effectiveness of the system and meeting the ultimate electricity demand of the island
 - More Cost effective than submarine cable







First Organic Resources Recovery Centre – O · Park 1







Thank you

