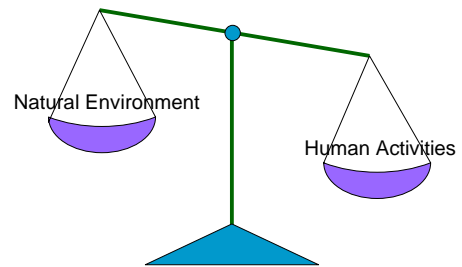


Development of Renewable Energy in Hong Kong and the Need for Public Education

Ir Roger LAI Sze Hoi, JP
Director of Electrical and Mechanical Services

機電工程署 EMSD



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The film “An Inconvenient Truth”

- “The climate crisis is, indeed, extremely dangerous. In fact it is a true planetary emergency. Two thousand scientists from different countries, working for more than twenty years in the most elaborate and well-organized scientific collaboration in the history of humankind, have forged an exceptionally strong consensus that all the nations on Earth must work together to solve the crisis of global warming.”
- “Global warming is not just about science and that it is not just a political issue, it is really a moral issue.”

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Stern Review Report on the Economics of Climate Change

- Overall costs and risks of climate change will be equivalent to losing at least 5% of global GDP each year
- If wider range of risks and impacts are taken into account, the estimates of damage will be 20% or more of global GDP

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Sustainable Energy Supply

- Energy efficiency improvements
- Natural gas for power generation
- Technologies for low carbon or carbon neutral society (e.g. carbon sequestration)
- Renewable energy

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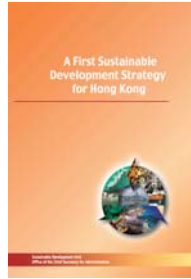
Renewable Energy Targets

- About 50 countries have set policy targets on renewable energy
- A number of cities have also set targets on renewable energy

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Renewable Energy Study and Target for Hong Kong

- Study on Potential Applications of Renewable Energy in Hong Kong, completed in 2002
- First Sustainable Development Strategy published in 2005
- Set a target of having between 1% and 2% of HK's total electricity supply met by power generated from RE by 2012



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Renewable Energy Sources With Potential for Wider Application in Hong Kong

- Solar energy
- Wind energy
- Energy-from-waste

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Government Solar Installations

- Total installed capacity about 1.5 MW



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Wind Power Development

- 800 kW wind turbine at Lamma Island
- Another large wind turbine will be constructed by 2007
- 2 offshore wind farm proposals



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Community Education for RE

- First Sustainable Development Strategy for Hong Kong

Target: To organize more public education programme on RE and sustainable energy consumption that links these issue to local and global sustainable development

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Demonstration RE Installations



350 kW photovoltaic installation at EMSD Headquarters

Exhibition Centre at Lamma Wind Power Station

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Community Events



Internet Platform on RE Technologies

- An Internet portal to serve as a hub for RE information in HK
- Work in progress for completion by early 2007



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Concluding Remarks

- Promoting RE in an urban city environment poses particular challenges
- Hong Kong has made important progress in the area of RE
- Various sectors of the community work together towards more RE in Hong Kong

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Thank you

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