

Economy Updates on EE&C Policies & Programmes

Y.K. CHAN (EEO, EMSD)
Hong Kong, China
38th EGEE&C Meeting
8 – 9 November 2011



Contents

- EE&C Related Policies
- Energy Efficiency of Buildings
- Energy Conservation & Use of Energy Efficient Products
- Other Ongoing EE&C Programmes



EE&C Related Policies

- Policy Address
 - Combating Climate Change and Global Warming through emission reduction strategy
 - Suggested emission reduction measures through wider use of cleaner energy
 - Enhancing energy efficiency
 - Energy efficiency for buildings
 - Energy-efficient products



Energy Efficiency of Buildings

- Mandatory implementation of Building Energy Code
 - Buildings account for about 90% electricity consumption in Hong Kong
 - Buildings Energy Efficiency Ordinance was enacted in November 2010
 - Full operation in September 2012
 - Minimum energy efficiency standards and requirements for 4 key types of building services installations, covering air-conditioning, electrical, lighting and lift & escalator
 - For new buildings and existing buildings undergoing major retrofitting works



Energy Efficiency of Buildings

- Mandatory implementation of Building Energy Code
 - For new buildings, expected energy saving of 2.8 billion kWh achievable in first decade (i.e. carbon dioxide emission reduction by 1.96 million tonnes)
 - Compliance registration every 10 years
 - Energy audit for common areas of commercial buildings and commercial portion of composite buildings once every 10 years



Energy Efficiency of Buildings

- Government to lead by examples
 - Target-based green performance framework for new and existing Government buildings
 - Compliance with Building Energy Codes
 - Demonstration of state-of-the-art energy-efficient designs and technologies
 - Energy audits at Government venues



Energy Efficiency of Buildings

- Buildings Energy Efficiency Funding Schemes (BEEFS)- \$450 million
 - Subsidy for communal areas of residential, commercial and industrial buildings
 - Energy-cum-carbon audits
 - Energy efficiency improvement of building services installations
 - Introduced since April 2009
 - Subsidy up to 50% of expenditure
 - Up to September 2011, over 750 projects have been approved

Energy Conservation and Use of Energy Efficient Products

- Mandatory Energy Efficiency Labelling Scheme (MEELS)
 - Energy Efficiency (Labelling of Products) Ordinance (EELPO)
 - Enacted in May 2008
 - 1st Phase fully operated in November 2009
 - Energy label for room air conditioners, refrigerating appliances and compact fluorescent lamps
 - Estimated electricity saving around 150 million kWh per year (i.e. reduce CO₂ by around 105,000 tonnes a year)

Energy Conservation and Use of Energy Efficient Products

- Mandatory Energy Efficiency Labelling Scheme (MEELS)
 - 2nd Phase MEELS to cover 2 more appliances by amendment to EELPO
 - 1) Dehumidifiers and 2) washing machines
 - Fully operated in September 2011
 - Estimated additional electricity saving of around 25 million kWh per year (i.e. CO₂ reduction by around 17,500 tonnes)



Other Ongoing EE&C Programmes

- Energy Efficiency Registration Scheme for Buildings (voluntary BECs)
- Scheme for Wider Use of Fresh Water in Cooling Tower of Air Conditioning Systems
- District Cooling System (DCS) in progress
- Voluntary Energy Efficiency Labelling Scheme
- Publicity and Public Education



Thank you !