

# Economy Updates on EE&C Policies & Programmes

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- EE&C Related Policies
- Energy Efficiency of Buildings
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# EE&C Related Policies

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- 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

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- Mandatory implementation of Building Energy Code and Energy Audit 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

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- Mandatory implementation of Building Energy Code and Energy Audit 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 for new buildings
  - Energy audit for 4 key types of central building services installations in commercial buildings and commercial portion of composite buildings once every 10 years



# Energy Efficiency of Buildings

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- 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

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- 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
  - From April 2009 to April 2012
  - Subsidy up to 50% of expenditure
  - Over 1100 projects have been approved
  - Estimated electricity saving around 180 million kWh per year (i.e. reduce CO<sub>2</sub> around 125,000 tonnes a year)



# Energy Conservation and Use of Energy Efficient Products

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- Mandatory Energy Efficiency Labelling Scheme (MEELS)
  - Energy Efficiency (Labelling of Products) Ordinance (EELPO)
    - Enacted in May 2008
    - 1<sup>st</sup> Phase full operation 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 CO<sub>2</sub> by around 105,000 tonnes a year)

# Energy Conservation and Use of Energy Efficient Products

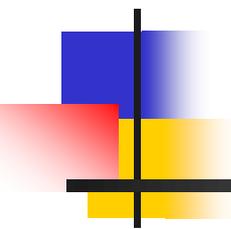
- Mandatory Energy Efficiency Labelling Scheme (MEELS)
  - 2<sup>nd</sup> Phase MEELS to cover two more appliances by amendment to EELPO
    - 1) Washing machines and 2) dehumidifiers
  - Full operation in September 2011
  - Estimated additional electricity saving of around 25 million kWh per year (i.e. CO<sub>2</sub> reduction by around 17,500 tonnes a year)



# Other Ongoing EE&C Programmes

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- 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



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Thank you !