

49th EGEE&C Meeting 28 – 31 March 2017

Economy Updates on EE&C Policies & Programmes

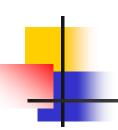
Hong Kong, China





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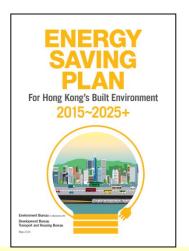
- EE&C Related Policies
- Energy Efficiency of Buildings
- Energy Conservation & Use of Energy Efficient Products
- Other Ongoing EE&C Programmes



EE&C Related Policies

Energy Saving Plan 2015-2025+

To help Hong Kong achieve the new target to reduce energy intensity, the Government will conduct periodic reviews to expand and/or tighten relevant energy-related standards including the statutory requirements under the *Buildings Energy Efficiency Ordinance*, the Building (Energy Efficiency) Regulation, and the *Energy Efficiency (Labelling of Products) Ordinance*.



May 2015 http://www.enb.gov.hk/sit es/default/files/pdf/Energy SavingPlanEn.pdf



Jan 2017 http://www.enb.gov.hk/sites/ default/files/pdf/ClimateActio nPlanEng.pdf

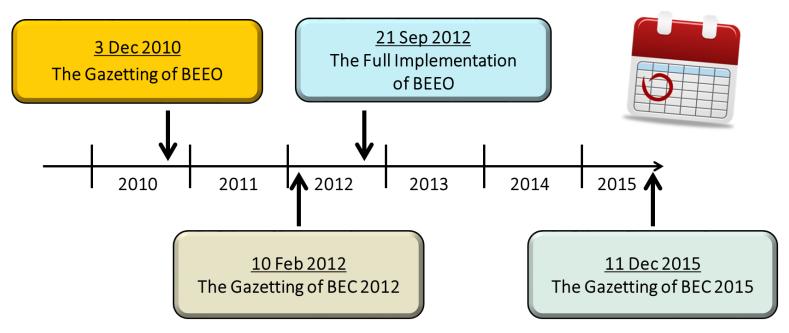
Hong Kong's Climate Action Plan 2030+

...Energy saving is the most critical means for Hong Kong to continuously reduce carbon emissions where there will also be an air quality benefit. Our *Energy Saving Plan* is the sister document to laid out energy intensity reduction target... It represents the foundation from which we plan our energy saving work and from which we will stretch efforts to 2030 in carbon emissions terms...

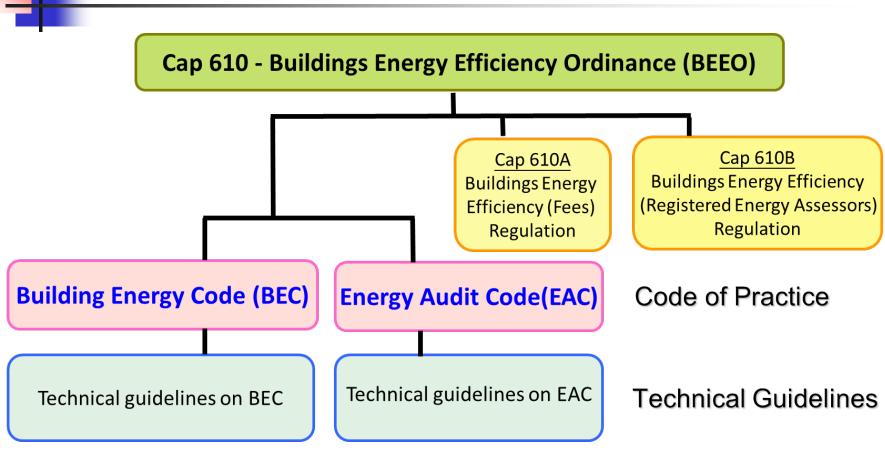




Mandatory implementation of Building Energy Efficiency Ordinance (BEEO) and Building Energy Code (BEC)



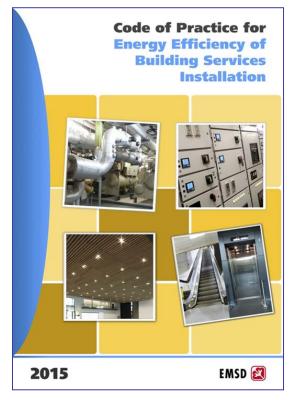






The First Comprehensive Review of BEC & EAC:

- Commenced in Sep 2014
- Draft BEC 2015 and EAC 2015 in Jun 2015
- Technical Taskforce endorsed in principle in Sep2015
- Director of Electrical and Mechanical Services approved on 24 Nov 2015
- New BEC Gazetted on 11 Dec 2015



(Review in a 3-year interval)







Anticipated Energy Saving

- ✓ Further improvement in energy efficiency: 10%
- ✓ The saving of 5 billion kWh for newly constructed buildings up to 2025

The total reduction of CO₂ emission: 3.5 million tonnes

 Equivalent to total annual electricity consumption by about 1 million Hong Kong households

http://www.beeo.emsd.gov.hk/







- Use of more energy-efficient products:
 - Achieve significant energy saving
 - Helps reduce emission of greenhouse gases and other pollutants from power plants
- * Voluntary Energy Efficiency Labelling Scheme since 1995, aiming to:
 - Promote energy saving by informing potential customers of products' energy performance level
 - Encourage product suppliers to make available more energy-efficient products to meet customers' needs



http://www.emsd.gov.hk/en/energy_efficiency/voluntary_energy_efficiency_labelling_scheme/index.html

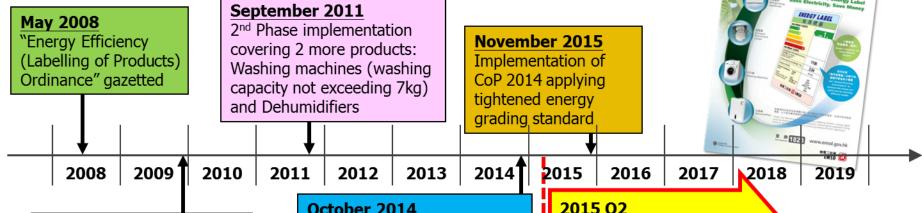


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Mandatory implementation of Energy Efficiency

(Labelling of Products) Ordinance



November 2009

1st Phase implementation covering 3 products: Room air conditioners (cooling performance), Refrigerating appliances & compact fluorescent lamps

October 2014

Tightened energy grading standards for 3 products: Room air conditioners, Refrigerating appliances & Washing machines. "Code of Practice (CoP) on **Energy Labelling of Products** 2014" gazetted

2015 Q2

Study of 3rd Phase expanding the coverage to new products and extending the scopes of existing products under Energy Efficiency (Labelling of Products) Ordinance

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Latest Development...

Mandatory Energy Efficiency Labelling Scheme (MEELS) 3rd Phase

Expand coverage to 3 new products



Extend scopes of **2** existing products



Washing Machine

Extend scope of washing capacity from not exceeding 7kg to not exceeding 10kg



5 potential products proposed for inclusion into 3rd

Phase estimated to account for about **15** % of the annual electricity consumption in the residential sector



Room Air Conditioners

Extend scope from including cooling performance only to both cooling and heating performance





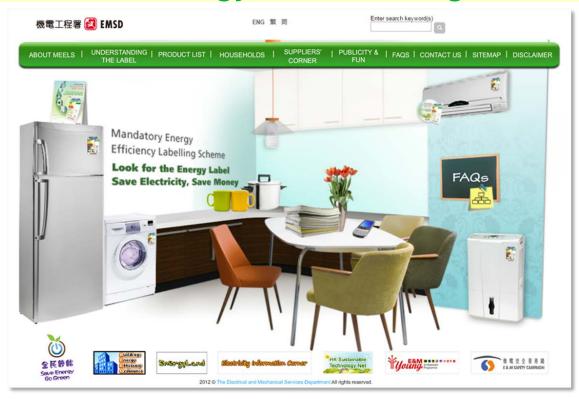
3rd Phase MEELS Latest Progress

- ✓ Public & trade consultations conducted
- Draft "Revision of Code of Practice" circulated to stakeholders, comments collected being consolidated
- ✓ Legislative amendments in progress

- Full implementation of 3rd Phase MEELS tentatively between late
 2018 to early 2019
- Estimated annual energy saving arising from 3rd Phase of MEELS
 - > ~150 million kWh
- Estimated annual reduction in CO₂ emissions
 - > ~105,000 tonnes



www.energylabel.emsd.gov.hk



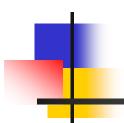
Other Ongoing EE&C Programmes

- 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
- ✓ Phasing Out of Energy Inefficient Incandescent Lamps
- ✓ "Energy Saving for All" Campaign
- Energy Saving Charter
- Energy Saving Championship Scheme
- Youth Energy Saving Award
- Education Path and School Outreach Programme









Thank you!

