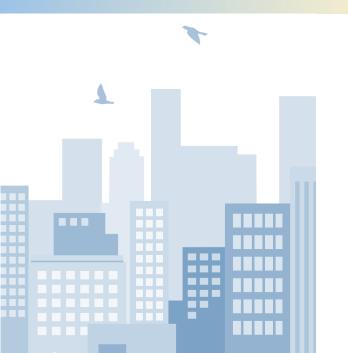


# Briefing Session on the Buildings Energy Efficiency Ordinance (Cap. 610) for Registered Energy Assessors



Energy Efficiency Office,

Electrical and Mechanical Services Department

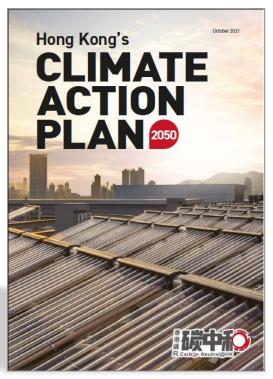


#### Climate Action Plan 2050















Electricity consumption (Compared with 2015)



(Reduce by 30-40% subsequently)



(Reduce by 20-30% subsequently)

https://www.climateready.gov.hk/files/pdf/CAP2050 booklet en.pdf











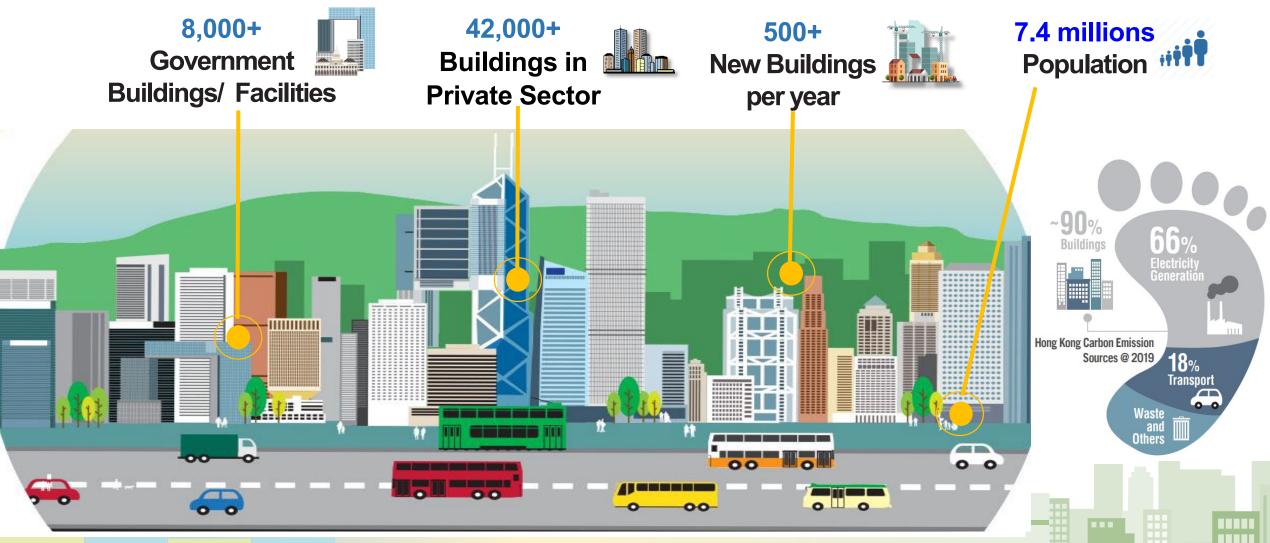






# **Hong Kong Situation**













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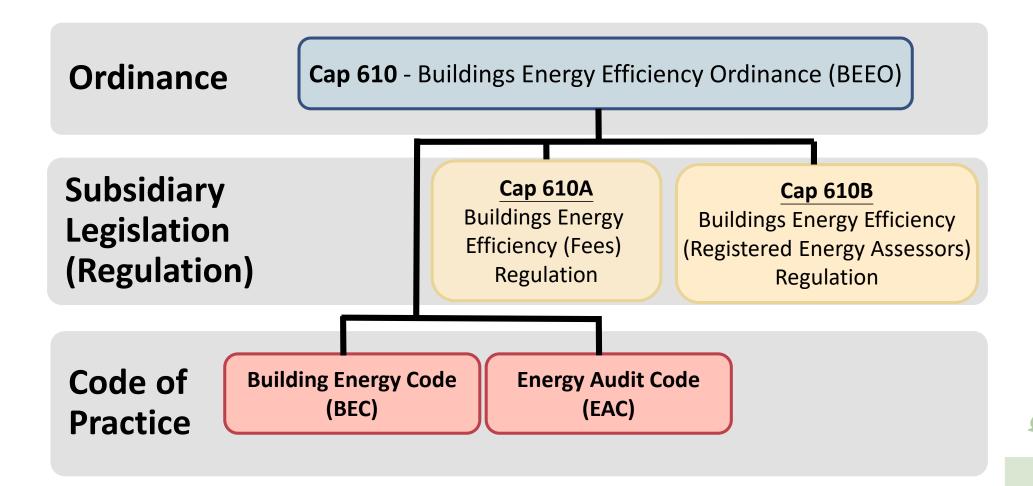




<sup>.</sup> Building Department, HKSAR . Development Bureau, HKSARG . Census and Statistics Department, HKSARG . Climate Action Plan 2050, HKSARG

# **BEEO - Legislative Framework**

















### **BEEO - Legislative Framework**

**✓** Full Implementation on 21 September 2012



#### **4 types of Central Building Services Installation (CBSI)**



Lighting

**Electrical** 





**Air-conditioning** 

**Lift & Escalator** 













# **BEEO - Legislative Framework**



# Cap 610 Schedule 1 & 2 COCR & FOC

- Hotel & guesthouse
- Educational building
- Community building (Social Service, Elderly Centers)
- Municipal services (Library, Indoor Game Hall, Market etc.)
- Hospital & clinic
- Government building
- Railway station

- Commercial building
- Industrial building common area
- Residential building –
   common area
- Composite building
  - (schedule 1)prescribed portion
  - common area of residential portion or industrial portion
- Airport passenger building

#### Cap 610

#### **Schedule 3**

**Major Retrofitting Works** 

Works involving addition or replacement of a building services installation specified with

✓ Works area ≥ 500 m²

and/or

Addition or replacement of a main component of a central building services installation (CBSI)

- ✓ Electrical Circuit ≥400A
- ✓ A/C ≥350kW
- ✓ Motor drive & Mechanical drive of a lift/ escalator/ passenger conveyor

#### Cap 610 Schedule 4 & 5

**Energy Audit** 

- Commercial building
- Composite building (commercial portion















# **BEEO – The 3 Major Requirement**



	Responsible party	Applicability	Code Compliance	Legal Obligation
(1) Newly Constructed Buildings	Developer	4 key types of BSIs	BEC (Full)	Apply for <b>COCR</b> (EE1 & EE2)
(2) Existing Buildings	Responsible person; Owner of installation(s)	Major Retrofitting Works (MRW)	BEC (Partial) Table 10.1	Obtain <b>FOC</b> ( <b>EE4</b> )
(3) Commercial Buildings / Commercial Portion of Composite Buildings	Building owner	Energy Audit	EAC Energy Audit Code	Obtain EA Form ( <b>EE5</b> ) and EA Report











# (1) Newly Constructed Buildings



#### Stage One Declaration

- Developer engage Registered
   Energy Assessor (REA) to submit
   declaration 2 months after obtaining
   Consent to commencement of
   building works (建築工程展開同意書)
- Declare the design of building services installations to comply with the BEC



#### Stage Two Declaration

- Developer engage REA to submits declaration 4 months after the Occupation Permit (佔用許可證) is issued.
- Confirm designed, installed and completed BSIs complying with BEC
- Full fit-out works under developer's scope













# (2) Major Retrofitting Works in Existing Buildings



#### Works Area

Addition/replacement of a BS installation:

Works area ≥ 500 m<sup>2</sup> in a unit or a common area



Lighting – 3kW

Chiller, U-AC, AHU – 60kW

L & E – motor drive & mechanical drive

#### Central BS installation (CBSI)

Addition/replacement of main component:







electrical circuit ≥ 400A

A/C installation ≥ 350kW

motor drive + mechanical drive









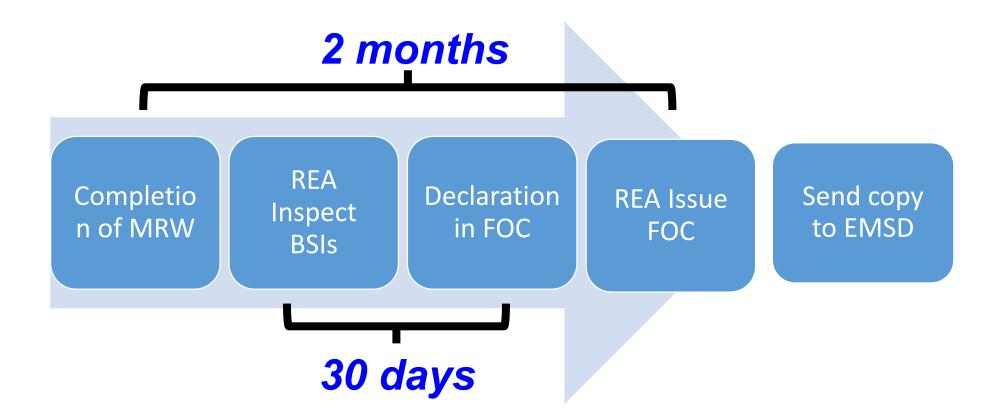






# (2) Major Retrofitting Works in Existing Buildings





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