



# Update on Implementation of the BEEO

**REA Briefing Sessions:**

**07 Dec 2015**

**11 Dec 2015**

**18 Dec 2015**

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# Update on Full Operation of BEEO (As in October 2015)



Certificate of Compliance Registration (COCR)	<ul style="list-style-type: none"><li>• Stage one declaration (S1) received : <b>about 850</b></li><li>• Stage two declaration (S2) received : <b>about 80</b></li></ul>
Form of Compliance (FOC)	<ul style="list-style-type: none"><li>• FOC for MRW received : about <b>3,700</b></li></ul>
Energy Audit (EA) Form	<ul style="list-style-type: none"><li>• EA form received : <b>about 2,100</b></li></ul>
Registered Energy Assessor (REA)	<ul style="list-style-type: none"><li>• REA registered : about <b>860</b></li></ul>

# Certificate of Compliance Registration (COCR)



Applicability – 13 types prescribed buildings in Schedule 1

## (a) S1 Declaration

- within **2 months** after consent date of commencement of superstructure works
- Prescribed BSIs will comply with the BEC Code

## (b) S2 Declaration

- within **4 months** after OP date
- Prescribed BSIs have been complied with the BEC Code of not lower than the edition in S1

# Certificate of Compliance Registration



EMSD's enforcement actions on submission of S1 Declaration

- Information from BD
- Advisory letter

## RECOMMENDATION :

*REA to remind developer to follow the statutory requirements for submissions of S1 & S2 Declaration*



# Form of Compliance (FOC)

Applicability – 13 types prescribed buildings in Schedule 1

(a) Based on works areas

- Works area  $\geq 500\text{m}^2$
- Prescribed building services installation

(b) Based on installation

- Prescribed central building services installation

**Obtain FOC within 2 months after completion of the works**



# Form of Compliance

## Progress of obtaining FOC

	2012 (from Sep)	2013	2014	2015 (as of Nov)
No. of FOC submission	~100	~900	~1700	~1000

Average no. of FOC submission per year is about 1230 (yr 2012 excluded).

► **Relatively low compliance rate**



# Form of Compliance

EMSD's enforcement actions on low compliance rate of FOC

- Liaise with government departments (LCSD, FEHD) for information of MRW
- Publicity visit and survey
- **Improvement Notice (IN)** has been issued for non-compliance case

## RECOMMENDATION :

*REA to jointly promulgate the statutory requirements for Major Retrofitting Work*

# Energy Audit (EA)



## Schedule of 1<sup>st</sup> EA (bldg. w/o COCR)

	Batch 1	Batch 2	Batch 3	Batch 4
Date of OP of Buildings	on or after 1988	Between 1978 and 1987	Between 1970 and 1977	Before 1970
Deadline to carry out energy audit	20.9.2013	20.9.2014	20.9.2015	20.9.2016

**Deadline is coming**





# Energy Audit

## Progress of the 1<sup>st</sup> Energy Audit (bldg. w/o COCR)

	Batch 1	Batch 2	Batch 3	Batch 4
EA reports submitted / exempted	Completed	>90%	>40%	EA in progress, to be evaluated

**Deadline over 14 months**

**Deadline over 2 months**

# Energy Audit



## EMSD's follow-up actions against contravention

- Improvement Notice
- Prosecution actions

### RECOMMENDATION :

*REA to (a) complete the 2<sup>nd</sup> and 3<sup>rd</sup> EA on hand ASAP;  
(b) actively consider to approach the building owners/  
IO for those buildings not cause energy audit to be  
carried out.*

# Registered Energy Assessor (REA)



- No. of REAs: 860 nos.
- No. of active REAs: about 300 nos.

% of active REAs is less than 35%

► **Very low participation rate in handling statutory submissions of the BEEO**

# Registered Energy Assessor (REA)



## Recommendation and Way Forward

- Remind the inactive REAs (your colleagues/friends) **the responsibility of REAs** and encourage their participation
- EMSD actively consider to disclose the number of COCR/FOC/EA cases involved
- Step up the disciplinary action towards poor performance of REA
- Consider to further tighten the assessment on REA application



# Summary of Prosecution Action Taken

<b>No. of Improvement Notice (IN) issued relating to EA, FOC, S1 &amp; 2 declarations</b>	114
<b>No. of prosecution for failing to conduct Energy Audit</b>	5
<b>Fine for each prosecution case</b>	\$2,000 - \$21,000

EMSD will progressively proceed enforcement actions towards developer / building owners / REA who contravene the BEEO's requirements



# Sampling Inspection

- **Purpose**

Through site check, to ascertain compliance with the BEC requirements in submissions of S2 Declaration, FOC & EA

- The number of sampling inspection will be increased progressively to ascertain the standards
- Enforcement action including disciplinary and prosecution will be initiated if necessary



# Sampling Inspection

## Irregularities

- Case 1

Type of submission	S2 Declaration
Type of Building	Educational
Works	A/C & electrical installation works
Non-compliance	<ul style="list-style-type: none"><li>● Certified in submission that there is chiller installation, but not found on site.</li><li>● Certified in submission that there is harmonic current correction device or connection point for circuit above 400A, but not found on site.</li></ul>
EMSD's follow-up	Issue IN to developer for rectification.

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# Sampling Inspection

## Irregularities

- Case 2

<b>Type of submission</b>	FOC
<b>Type of Premises</b>	Supermarket
<b>Works</b>	A/C installation works
<b>Non-compliance</b>	Installed motors of AHUs of rated efficiency not comply with the minimum nominal full-load motor efficiency specified in Table 7.5.1 of the BEC 2012
<b>EMSD's follow-up</b>	Issue IN to RP for replacement of the motors of the AHUs

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# Thank you

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