花惜资源節能

Topics

Common irregularities

- 1. Stage One Declaration
- 2. Stage Two Declaration
- 3. Form of Compliance
- 4. Energy Audit submission



Stage One Declaration





Deliver to the EMSD's office within 2 months after the day on which the consent to the commencement of building works for the superstructure construction is given:

Example

- Consent date: 05 September 2015
- Submission Date: 04 November 2015
- i.e. the declaration is arrived at the EMSD's office on or before 04 November 2015





• Consent Issue date: the one in Form BD103



- Submit a copy of Form BD103 also
- Both the developer and REA to sign with <u>dates</u> on the declaration form

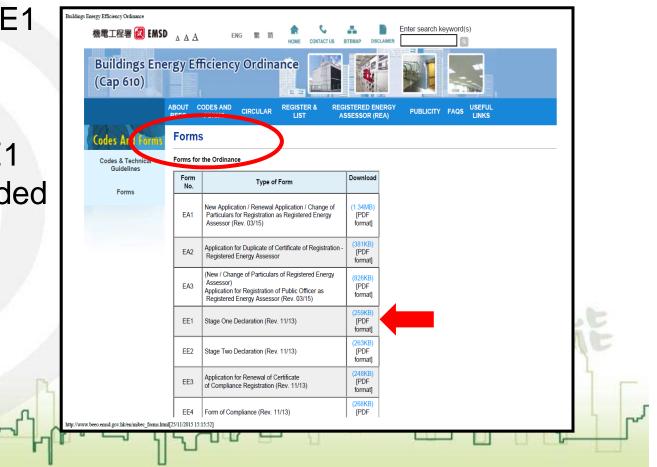
V.	Form BD103 (Con	tinued)							
	Our Ref. No.	Type of Plans	Date of Notice of Approval	Conse	nt Date	Name, Post & Signature	Consent Renewal Date	Name, Post & Signature	•
	BD 2/4016/10	Building Amendment# (Ground beams and slabs only)	3 April 2013	13 May 2	13 '				
	BD 2/4016/10 BD 2/4016/10	Building Building Amendment#	30 April 2010 4 April 2011, 20 January 2012, 31 August 2012, 17 October 2012, 12 December 2012, 8 February 2013, 3 April 2013	14 May 2	013				
	BD 4/4016/10 BD 4/4016/10 BD 3/4016/10	Drainage Drainage Amendment# Superstructure	22 November 2012 17 January 2013, 23 April 2013 22 April 2013						
÷		(above Ground Floor) #(Remaining Portion)		• ;	÷				-

Issue date of the consent





- Outdated Form EE1 and EE-SU
- ✓ Updated Form EE1 and EE-SU uploaded in BEEO website







- Incorrect BEC edition on P.2/6 and 3/6 of Form EE1
- ✓ Developer's signature date on or after 28 Aug 2014
 BEC 2012 (Rev.1)

tion	To: The Director of Electrical and Mechanical Services 致: 機電工程署署長
of	 In accordance with section 8 of the Buildings Energy Efficiency Ordinance (Chapter 610), we, as the Developer, declare that all building services installations to be provided by us in the building described in section A of this form (see note 4) at or before the time when a stage two declaration is made in respect of the building(s) / development are designed, and will be installed and completed, in accordance with the specified standards and requirements not lower than the Code of Practice for Energy Efficiency of Building Services Installations year)Edition. We also declare that all the information reported in this form and in all the attachments is true and correct. Rtikg建築物能源效益條例(第610章)第 8 條,我們作鳥發展業,現聲明本表格甲部所述的建築物在作出次 階段聲明之時或之前由我們在該建築物內提供的所有屋字裝備裝置(見須知事項4),均按照不低於《屋字 裝備裝置能源效益實務守則》(版本見上述英文段落)的指明標準及規定設計,並將會按照該等標準及規定裝 設及完成。 我們亦聲明在本表格塡報及所有附件內的一切資料至屬真確無訛。
or	Company Name of English Developer 英文 發展者公司名稱 Chinese 中文
	Representative Salutation Mr. / Miss / Ms.* Person (if any) 稱謂 Mr. / Miss / Ms.* 代表人(如有) English Name 英文姓名
- That	





 Date of declaration of REA should be indicated in on page 2/11 of Form EE-SU

Date of Declaration by Registered Energy Assessor in Form EE1 / EE2 / EE3 / EE4 *: 載於表格 EE1 / EE2 / EE3 / EE4 * 之能源效益評核人的聲明日期:
ls this submission to supersede a form submitted before? (Please give a "√" in the appropriate box) 此次提交是否代替之前所提交之表格?(請於適當空格內加上「√」號)
□ Yes 是 □ No 否 (If no, please ignore the following two items.) (如否,請不必理會以下兩項。)
If EMSD's reference no. for the form submitted before is known, please provide: 如知悉有關之前所提交之表格的機電工程署檔號,請提供:

 \wedge





 Separate submission of Form EE1 and EE-SU for multi-blocks development For a building complex consisting of a podium block and a single tower block, as shown in TG Figure 4.2.7.1, the complex is normally regarded as a single building block requiring a single COCR and thus single stage one and stage two declarations.

4.2.7.2 COCR Per Building Block

4.2.7.1 COCR Per Podium Tower Pair

For a building complex consisting of three blocks, namely tower 1, tower 2 and podium, as shown in TG Figure 4.2.7.2, a COCR should be obtained for each building block, namely for podium block, tower 1 block and tower 2 block, that is a total of 3 nos.

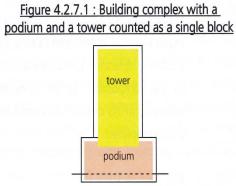
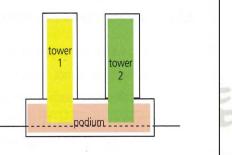


Figure 4.2.7.2 : Two towers with common podium counted as 3 nos. building blocks







Stage One Declaration Provide Supplementary Information

- Site Location Plan;
- Master layout plan; (no. of building blocks)
- Documents/plans about common areas especially for residential and industrial building
- General building layout plans (extent of applicability)
- Document showing the identity of developer (e.g. document from Land Registrar)





Stage Two Declaration







Technical Forms

(rease refer to section 5, code or mactice for chergy chiclency or building services installation 2012 cutton)

Please provide information i	wer Density & Lightin in table below for spaces gove nd/or the lighting control req	erned by t	the lighting	power	Requirements on LPD and points in BEC (Clauses 5.			Lighting control
Drawing No. of lighting	Name of space /	Area of	Installed	Installed no. of	LPD in BEC Table 5.	4	Min allowed no. of lighting	applicable are inc those for the oth which the Ordina
layout	Space Ref. No. *1	space (m ²)	LPD *2 (W/m ²)	lighting control points *3	Applicable type of space *4	Max allowed W/m ²	control points in BEC Table 5.5 ^{*3}	applicable ? (BE((please tick wh
			(Please ir	nsert additio	onal row if necessary)			
AGR-LTG-01	Disable Lav (<100W)	5.30	5.30	N/A	Toilet	N/A	N/A	🗆 Yes
AGR-LTG-01	Male Lav(<100W)	5.90	4.70	N/A	Toilet	N/A	N/A	🗆 Yes
AGR-LTG-01	Female Lav(<100W)	2.70	10.40	N/A	Toilet	N/A	N/A	🗆 Yes
AGR-LTG-01	Management office(Bareshell)	132.00	1.90	N/A	Bare shell for future fit-out	N/A	N/A	🗆 Yes
AGR-LTG-01	Water Tank pump rm(<100W)	40.00	2.10	N/A	Plant Room	N/A	N/A	Yes
AGR-LTG-01	FS Pump Room (<100W)	20.00	2.80	N/A	Plant Room	N/A	N/A	🗆 Yes
AGR-LTG-01	LV Switch Room	80.00	1.75	N/A	Switch Room	12.00	N/A	🗹 Yes
AGR-LTG-01	U/G HR Pump Rm (<100W)	33.00	1.70	N/A	Plant Room	N/A	N/A	🗆 Yes
								Yes
			í,n		An	TL.	<u>-</u>	
-	Form carrying le	•						
 Not the RE 	EA's capacity to	state	the ap	oplicat	oility			
10				-	人	と電き	程署 🙋	EMSD



- Provide drawings of proper size to ensure that the content is legible.
- Spaces provided with minimum lighting level to OP inspection only:
 - Should be highlighted and listed;
 - Lighting control points to be provided for office space (reduced no. of lighting control points to reduced LPD refer to TG)



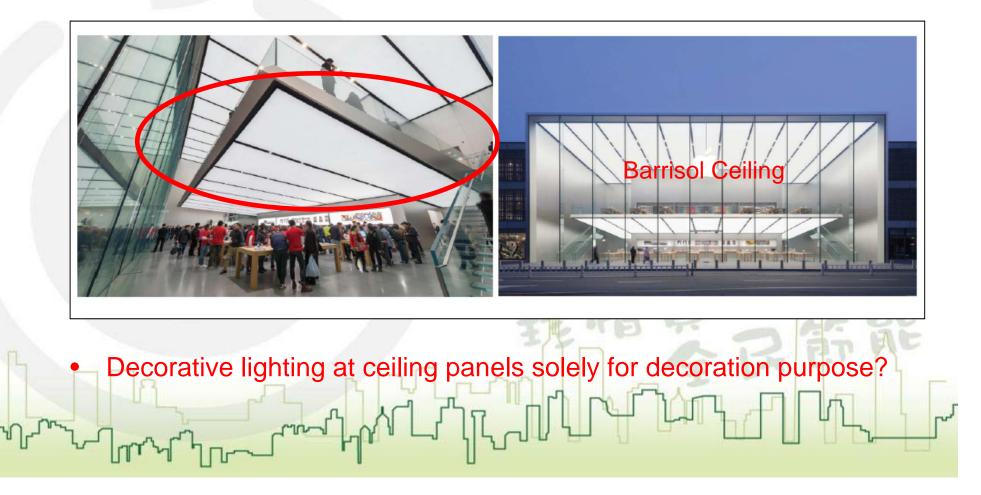


- Re-submission:
 - REA to provide statement that the submitted material had been reviewed to his satisfaction;
 - or sign the cover letter
- Belated resubmission will render the entire stage two declaration being rejected.





Special cases for discussion:





Case study



For the sole use as decorative light?

Not from:

- type of luminaire
- statement or declaration from the designer;
- provided with separated circuit/switch

But from the nature and usage:the lighting layout (relation w/ other lighting fittings);

photo (relation w/ the space)



Case study

- For the sole use as decorative light? (Mirror-wall Interface)
- Please submit drawings to show lightings at vertical plane surface for review

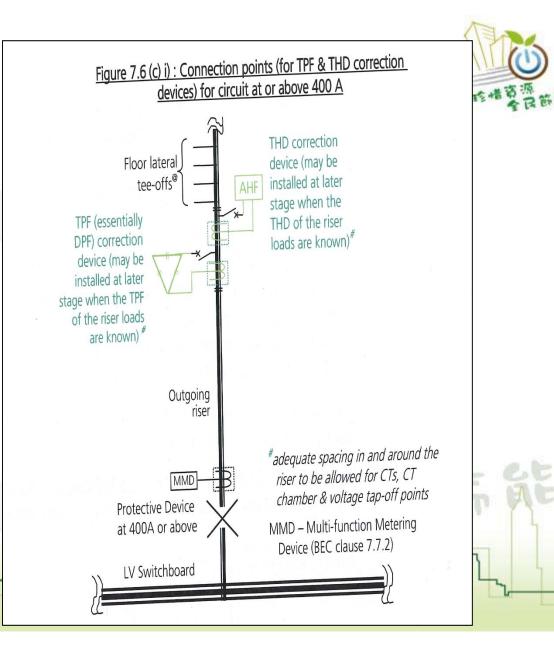






Case Study

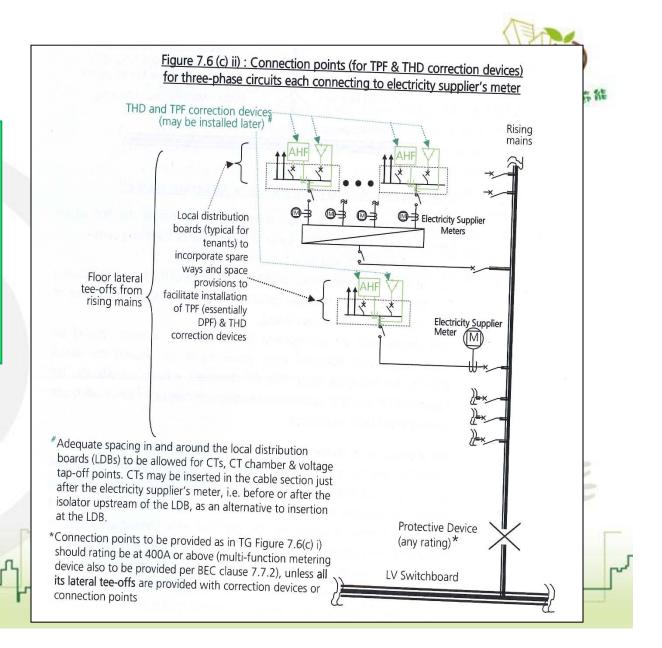
- Connection points (for Total Power Factor and Total Harmonic Devices for circuit at or above 400A missing
- REA/ Designer can choose to provide the connection points at lateral tee-offs or at each distribution boards downstream of tee-off





Case Study

 Connection points for Total Power Factor and Total Harmonic Devices for 3-phase circuits each connection to electricity supplier's meter







Form of Compliance (FOC)







- Incorrect BEC edition on P3/6 of Form EE4
- ✓ REA's signature date on or after 28 Nov 2014 **BEC 2012 (Rev.1)**

Section B 乙 部: Declaration 聲明 The above mentioned Responsible Person 上述的負責人 The Director of Electrical and Mechanical Services, and property management company (or if none, owner) 機電工程署署長、及物業管理公司(或如沒有,則業主) 抄 关: In accordance with section 18 of the Buildings Energy Efficiency Ordinance (Chapter 610), I, Registered Energy Assessor, certify that the building services installations in respect of which the major retrofitting works were carried out in the above anti/common area have been designed, installed and completed in accordance with the standards and requirements not lower than the Code of Practice for Energy Efficiency of Building Services Installations (year) Edition; and also confirm that I have, in the 30 days before the declaration, personally inspected the building services installations covered by this Form on (DD/WM/WVVV) and the results of the inspection are satisfactory. I also declare that all the information reported in this form and in all the attachments is true and correct. 根據建築物能源效益條例(第610章)第18條,本人作為註冊能源效益評核人,現核證於上述單位/公用 地方內進行主要裝修工程的屋字裝備裝置已按照不低於《屋字裝備裝置能源效益實務守則》(版本見上 述英文段落) 的標準及規定設計、裝設及完成;及確認本人已在作出本聲明之前的30日內,親自檢查此 表格所涵蓋的屋宇裝備裝置(檢查日期見上述英文段落)並滿意檢查結果。 本人亦聲明在本表格塡報及所有附件內的一切資料全屬真確無訛 Registered Energy Salutation



To:

致:

CC:

副本





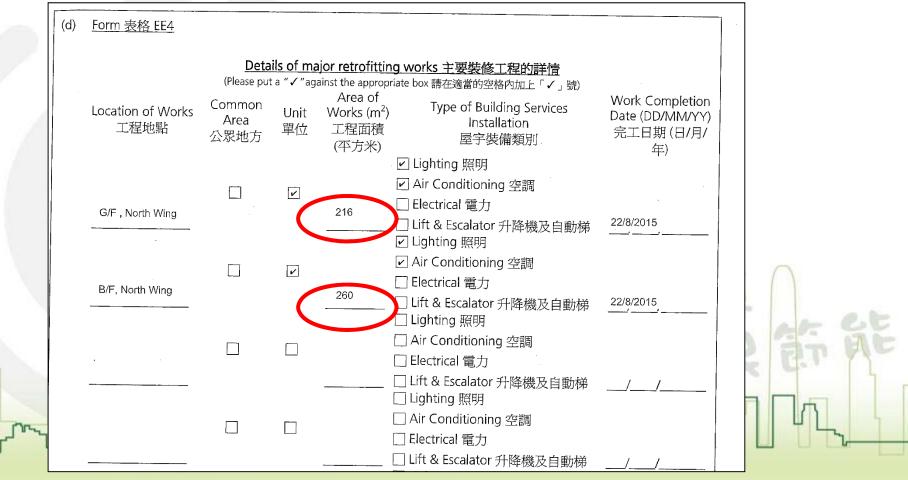
Table 10.1 f the Building Energy Code

Form EE-AC and EE-EL should be submitted

Majo	r Retrofitting Works and Energy Efficiency F	<u>equirements</u>	
	Condition for Applicability of BEC Requirement	Applicable BEC Requirement	BEC Clause No.
(ii) addition or replacement	applicable in any conditions	air- conditioning equipment efficiency	6.12
of a unitary	the work involving for the additional or replacement air-conditioning equipment the	frictional loss of water piping system	6.9
	addition or complete replacement of corresponding water side pumping system	energy metering	6.13
	ditto, the corresponding water side pumping system forming an independent system	pumping system variable flow	6.8
exceeding	the work involving addition or replacement of pipework, ductwork or AHU	thermal insulation	6.11
350kW	the work involving addition or replacement of water pump with new motor, of AHU with	motor efficiency	7.5.1
	new motor, or of fan with new motor in addition to the the work involving addition or addition or replacement	requirements as for (a	a) (i)



Page 4/9 of Form EE-SU



MRW??





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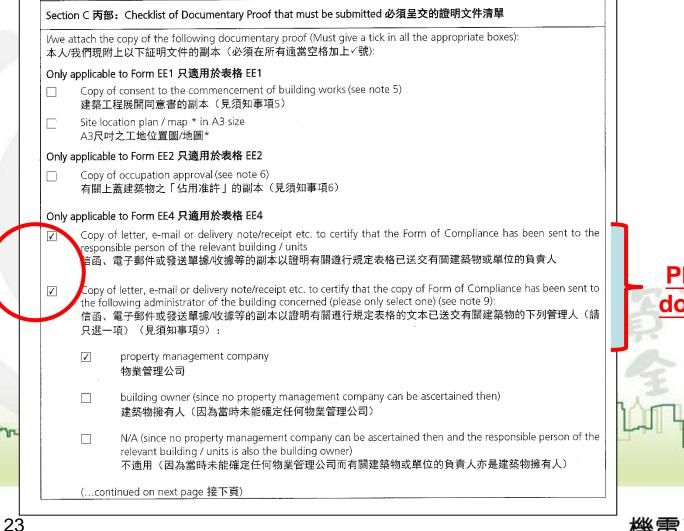


- Pursuant to section 18(5) of the BEEO, REA issue FOC
- Send a copy of FOC to DEMS
- Send a copy of FOC to property management company

(if no such property management company, send the copy to the building owner)



Form EE-SU





Please provide document proof







Form EE-SU



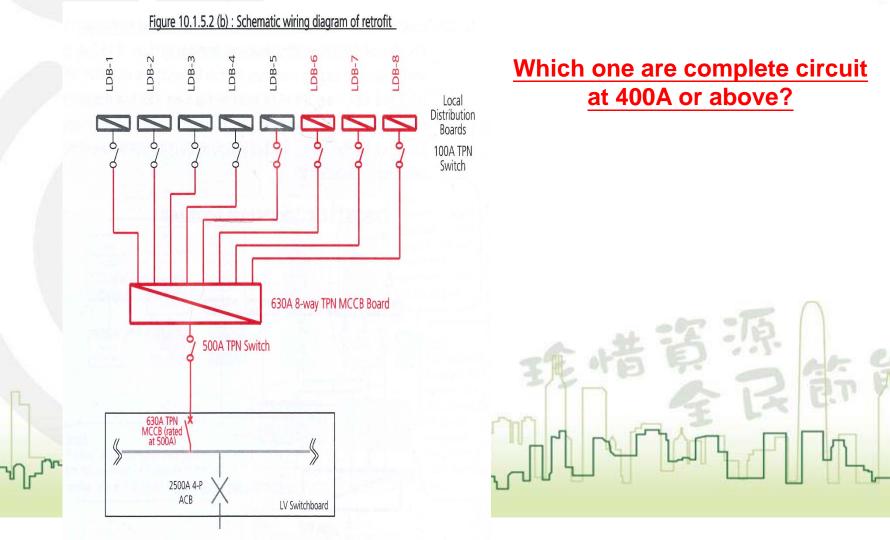
Form EE-SU

If no property manage	ement company	, please arrange the representative of responsible person indicated in the
		dorse the following confirmation. 行規定表格所示的負責人之代表簽署以下確認。
Organization Name of Responsible Person [#]	English 英文	ABC Company
負責人機構名稱"	Chinese 中文	
Name of Responsible Person's	English 英文	CHAN Tai Man
Representative [#] 負責人之代表名稱 [#]	 Chinese 中文	
([#] must be identical with	n the associated	Form of Compliance 必須和關聯的遵行規定表格完全相同)
the time of issuing the correct.	e associated Fo	erson, confirm that there was no relevant property management company at rm of Compliance. I also declare that the above confirmation is true and 規定表格之時並無有關的物業管理公司。本人亦聲明上述確認全屬真確無
記。		
HIC 0		Organization Chop 機構蓋章
EIL 0		
	IAN Tai	Man



3









For a works within an existing building, an REA <u>signed</u> and submitted all the following forms at the same time:

- •EE1 Stage One Declaration
- •EE2 Stage Two Declaration
- •EE3 Application for Renewal of COCR
- •EE4 FOC
- •EE5 Energy Audit Form (EUI left blank)
- •EE-SU Filling in works area of 400m2
- •EE7 Application for Duplication of COCR, FOC, EA Form

Is the building a prescribed building under the BEEO??





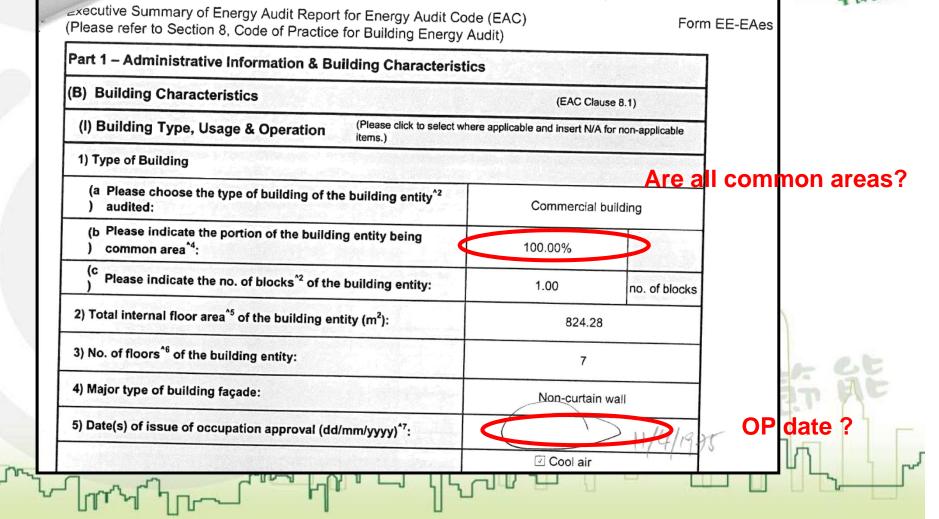
Energy Audit Submission





Energy Audit submission (Cont'd)







(B) Building Characteristics		(EAC Clause 8.1)		
(I) Building Type, Usage & Operation (Please click to select where applicable and	insert N/A for non-ap	plicable items.)		
1) Type of Building				
(a) Please choose the type of building of the building entity ^{^2} audited:	Comn	nercial building		
(b) Please indicate the portion of the building entity being common area ^{^4} :	26.8%			
(c) Please indicate the no. of blocks ^{^2} of the building entity:	1	no. of blocks		
2) Total internal floor area ^{^5} of the building entity (m ²):		36,510		
3) No. of floors ^{6} of the building entity:		35		
4) Major type of building façade:	C	Curtain wall		
5) Date(s) of issue of occupation approval (dd/mm/yyyy) ^{^7} :		5/7/2001		
		Cool air		
6) Type of central air-conditioning ^{^8} provided:	✓	Chilled water		
by type of central an-conditioning provided.		Condenser water		
		Not applicable		

- BEEO common area [sub-item 1)(b)]
 - buildings with "common area" with Deed of Mutual Covenant (DMC) and separately owned units (Remark ^4)
 - buildings without "common area" single ownership, "0" to be inserted, but still can have "commonly used areas" (see later slide)
- Total internal floor area of the building entity [item 2)]
 - To include tenant units area (Remark ^5), irrespective of CBSI served or non-served
- Central air-conditioning (AC) [item 6)]

30

 10% CBSI energy consumption criterion, may tick more than one sub-item (Remark ^8)

Energy Audit submission (Cont'd)



Form EE-EAes

Executive Summary of Energy Audit Report for Energy Audit Code (EAC) (Please refer to Section 8, Code of Practice for Building Energy Audit)

