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| 4 | ENERGY USE | 4.3 ENERGY EFFICIENT EQUIPMENT | |
| | | EU 9 ENERGY EFFICIENT APPLIANCES | |
| | EXCLUSIONS | Buildings where appliances are not provided by the developer. | 1 |
| | OBJECTIVE | Encourage the wider use of energy efficient appliances. | |
| | CREDITS ATTAINABLE | 2 | |
| | PREREQUISITES | None. | |
| | CREDIT REQUIREMENT | 1 credit when 60% of total rated power of appliances and equipment are certified energy efficient products. 2 credits when 80% of total rated power of appliances and equipment are certified energy efficient products. | |
| | ASSESSMENT | The Client shall provide details of all the appliances installed in the building and evidence as to the efficiency ratings of each type and size of the appliances; and quantify the rated power of certified energy products as the percentage of total rated power of appliances and equipment. The eligible appliances and equipment include the products with efficiency Grade 1 or 2 under the Energy Efficiency Labelling [1,2] or USEPA Energy Star Rated [3] or certified under an equivalent labeling scheme. Where the target percent of total power of appliances and equipment are certified efficient product, the credit(s) shall be awarded. | 2 3 |
| | BACKGROUND | To make it easier for the public to choose energy efficient products, EMSD operates Mandatory and Voluntary Energy Efficiency Labelling Schemes for appliances and equipment used both in the home and office. The scheme aims to save energy by informing potential customers of the product's level of energy consumption and efficiency rating, so that buyers can take these factors into consideration when making their purchasing decision. The scheme now covers nineteen types of household appliances and office equipment. Eleven types of these are electrical appliances including refrigerators (Voluntary Scheme), washing machines, non-integrated type compact fluorescent lamps, dehumidifiers, electric clothes dryers, room coolers (Voluntary Scheme), electric storage water heaters, television sets, electric rice-cookers, electronic ballasts and LED Lamp. The seven types of office equipment comprise photocopiers, fax machines, multifunction devices, laser printers, LCD monitors, computers and hot / cold bottled water dispensers. There is also one type of gas appliance for domestic gas instantaneous water heaters. Products in more than 40 categories are eligible for the Energy Star. They use less energy, save money, and help protect the environment. | |

- 1 Electrical and Mechanical Services Department. Voluntary Energy Efficiency Labelling Scheme. http://www.emsd.gov.hk/emsd/eng/pee/eels_pub.shtml
- 2 Electrical and Mechanical Services Department. Mandatory Energy Efficiency Labelling Scheme. http://www.emsd.gov.hk/emsd/eng/pee/eels_mpub.shtml
- 3 US Environmental Protection Agency. Energy Star Qualified Products. http://www.energystar.gov/index.cfm?fuseaction=find_a_product



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Application: BEAM Plus NB Version 1.1 & 1.2
BEAM Plus EB Version 1.1 & 1.2

Effective Date: 27 July 2018

EU 9 (NB) Energy Efficient Appliances
EU 7 (EB) Energy Efficient Appliances

The Circular Letter announces the following amendments to the assessment criteria of the credit.

1. The appliances and equipment that are subject to the assessment under this credit are as follows: 4

- a. EMSD's Mandatory Energy Efficiency Labelling Scheme; and
- b. EMSD's Voluntary Energy Efficiency Labelling Scheme.

For the avoidance of doubt, the assessment will only assess appliances and equipment that are governed by the abovementioned schemes and their scope and grading standards at the time of the first assessment submission¹.

2. Any other appliances and equipment that are not governed by the schemes mentioned in paragraph (1) shall be **EXCLUDED** from the assessment. In other words, these appliances and equipment shall not be accounted into the rated power calculation. 5

3. For the clarity of the assessment, the Applicant should provide a list summarizing all appliances and equipment that will be/have been provided for the project and clearly demarcate the appliances and equipment that are included/excluded in the rated power calculation. 6
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4. Approved PA projects: For projects that have already completed PA and have accounted appliances and equipment that are not governed by the schemes mentioned in paragraph (1) in the rated power calculation, the Applicant may opt to follow one of the following approaches in the subsequent assessment(s):
- a. Include these appliances and equipment in the rated power calculation for the subsequent assessments (FA or Re-assessment in the PA stage); or
 - b. Voluntarily comply with this Technical Circular.

¹ First assessment submission refers to the date when the initial assessment is formally accepted by BSL. For example, if the project has both PA and FA, then it would be the date when BSL formally accepts the project for PA submission. If the project has only FA, then it will be the date when BSL formally accepts the project for FA submission.

If the Applicant decides to proceed the subsequent assessment(s) with approach (a), the Applicant shall provide the relevant documentations (e.g. extract of the PA report, rated power calculation submitted during PA, etc.) in subsequent assessment(s) to support the intention to account the same type(s) of appliances and equipment as in PA.



Mr KM So
Chairperson of Standards Sub-committee

EU 9 Energy Efficient Appliances

#66. EU 9, For BEAM Plus New Buildings V1.1 and 1.2 / EU 7, For BEAM Plus Existing Buildings V1.1 and 1.2, Can instantaneous electric water heater be excluded in the calculation as it is not covered under the Energy Efficiency Labelling Schemes of EMSD?

Yes, instantaneous electric water heater can be excluded in the calculation.

(Obsolete as of 27 July 2018)

#67. EU 9, For BEAM Plus New Buildings Version 1.1 and 1.2 / EU 7, For BEAM Plus Existing Buildings Version 1.1 and 1.2, What is the guideline regarding the applicability of this credit?

The objective of this credit is to encourage the wider use of energy efficient appliances. Therefore, this credit is restricted to those buildings where large scale electrical appliances are provided by the developer. An example of this is a hotel/ residential building where microwave oven and refrigerators are installed by the developer.

(Released on 9 August 2016)

EU 10 Testing and Commissioning

EU 12 Metering and Monitoring

Water Use

WU P1 Water Quality Survey

WU P2 Minimum Water Saving Performance

WU 1 Annual Water Use

WU 5 Water Efficient Appliances

Indoor Environmental Quality

IEQ P1 Minimum Ventilation Performance

IEQ 1 Security

IEQ 2 Plumbing and Drainage

IEQ 4 Waste Disposal Facilities

IEQ 5 Construction IAQ Management

IEQ 6 Outdoor Sources of Air Pollution

IEQ 7 Indoor Sources of Air Pollution

IEQ 9 Increased Ventilation

IEQ 10 Background Ventilation

IEQ 11 Localised Ventilation

IEQ 12 Ventilation in Common Areas

IEQ 14 Thermal Comfort in Naturally Ventilated Premises

IEQ 15 Natural Lighting

IEQ 16 Interior Lighting in Normally Occupied Areas

IEQ 17 Interior Lighting in Areas Not Normally Occupied

IEQ 18 Room Acoustics

IEQ 19 Noise Isolation

IEQ 20 Background Noise

IEQ 21 Indoor Vibration

IEQ 22 Access for Persons with Disability

IEQ 23 Amenity Features