



Circular Letter No.: 2019.159 (Revision 1 – with Track Changes)

Issue Date: 26 June 2019

Revision Date: 11 September 2019

Application: BEAM Plus NB Version 1.1 & 1.2
BEAM Plus EB Version 1.1 & 1.2
BEAM Plus BI Version 1.0

Effective Date: 11 September 2019

**Comprehensive Review on Performance-Based Energy Benchmarking (2019) for
EU 1 & 2 Under BEAM Plus New Buildings Version 1.1 & 1.2,
BEAM Plus Existing Buildings Version 1.1 & 1.2 and BEAM Plus Interiors Version 1.0**

1. Electrical and Mechanical Services Department (EMSD) gazetted the 2018 Edition of the Code of Practice for Energy Efficiency of Building Services Installation (BEC 2018) on 16 November 2018, with the code taking effect on 16 May 2019¹. The tightened and new requirements on the four prescribed building services installation as stipulated in BEC 2018 edition are formulated to meet the latest technology advancement and the development of international standards².
2. BEAM Society has always taken a proactive approach in reviewing the latest statutory requirement and the industry trend to ensure that the benchmarking criteria of our tools on energy consumption is appropriate for the industry while meeting Government's policy objective on further enhancing the energy efficiency of buildings to help combat climate change.
3. Having reviewed all relevant factors affecting the benchmarking criteria of our tool on energy consumption, this Circular Letter announces an update to the benchmarking criteria for the following projects that shall adopt BEC 2018 in the baseline energy simulation/calculation:
 - i. **BEAM Plus New Buildings v1.1/1.2**
 - Projects that are required to comply with BEC 2018 in a Stage One Declaration signed by the developer on or after 16 May 2019;
 - Projects that are required to comply with BEC 2018 in a Form of Compliance signed by the developer on or after 16 August 2019;
 - Projects that falls under Section 4 of the Building Energy Efficiency Ordinance and are submitting for the first BEAM Plus assessment on or after **16 May 2019** **16 November 2019**.

¹ Government Press Releases on New edition of Code of Practice for Energy Efficiency of Building Services Installation and Code of Practice for Building Energy Audit gazetted, <https://www.info.gov.hk/gia/general/201811/16/P2018111600270.htm>

² The Building Energy Efficiency Ordinance (Cap 610) Technical Circular No. 1/2018 Launch of the BEC and EAC 2018, https://www.emsd.gov.hk/bceo/en/pee/BEEO%20Technical%20Circular%20No.%201_2018.pdf

- ii. BEAM Plus Existing Buildings v1.1/1.2
BEAM Plus Interiors v1.0
 - Projects that are submitting for the first BEAM Plus assessment on or after 16 August 2019.
4. **Annex A** provides the updated benchmarking criteria for EU 1 & 2 under BEAM Plus New Buildings v.1.1 & 1.2 and BEAM Plus Existing Buildings v.1.1 & 1.2. **Annex B** provides the updated benchmarking criteria for EU 1 under BEAM Plus Interiors v.1.0.
5. Approved PA Projects: For projects that fall under paragraph (3) but have already completed PA with certain energy benchmarking criteria being approved, the Applicant may either continue to adopt the same energy benchmarking criteria for FA or voluntarily comply with this Technical Circular. For the avoidance of doubt, the Applicant shall provide PA evidences (e.g. extract of the PA report, documents submitted for assessment in PA, etc) in subsequent assessments to support the intention of using the same energy benchmarking as in PA.



Mr KM So
Chairperson of Standards Sub-committee

Annex A –**Updated benchmarking criteria for EU 1 & 2****under BEAM Plus New Buildings v.1.1 & 1.2 and BEAM Plus Existing Buildings v.1.1 & 1.2****EU 1 - Reduction of CO₂ Emissions**

Credit	(a) Commercial and Hotel Buildings	(b) Educational Buildings	(c) Residential Buildings	(d) Other Building Types
0	<1%	<1%	<2%	<1%
1	-	-	2%	-
2	-	-	3%	1%
3	1%	-	4%	2%
4	3%	1%	5%	3%
5	5%	2%	6%	4%
6	7%	4%	7%	5%
7	9%	6%	8%	6%
8	11%	8%	9%	7%
9	13%	10%	10%	8%
10	16%	12%	11%	9%
11	19%	14%	13%	11%
12	22%	16%	14%	13%
13	25%	19%	16%	15%
14	28%	22%	18%	17%
15	32%	25%	20%	19%

EU 2 – Peak Electricity Demand Reduction

Credit	(a) Commercial and Hotel Buildings	(b) Educational and Residential Buildings	(c) Other Building Types
0	<10%	<5%	<7%
1	10%	5%	7%
2	19%	9%	11%
3	26%	12%	14%

Annex B –
Updated benchmarking criteria for EU 1
under BEAM Plus Interiors v.1.0

EU 1 – Energy Performance

Credit	HVAC&R	Lighting - Performance-Based Approach	Lighting - Prescriptive-Based Approach
0	<1%	<8%	<8%
1	1%	8%	8%
2	5%	13%	13%
3	9%	18%	18%
4	13%	23%	23%
5	17%	28%	28%
6	20%	33%	33%
7	-	38%	-
8	-	43%	-