

## BREEAM In-Use International scheme update to V6.0

This document details the changes that have been made from the BREEAM In-Use International 2015 scheme to the BREEAM In-Use International V6 scheme. These changes reflect learnings from the operation of the BREEAM In-Use International 2015 scheme, feedback from stakeholder consultation and ongoing wider industry engagement.

### Overview

The update will streamline the BREEAM In-Use process for all building types undergoing assessment, delivering the value associated with BREEAM In-Use certification more efficiently. It will also allow the BREEAM In-Use scheme to better respond to market drivers, such as the need to assess and certify the sustainability performance of operational residential buildings and align with other certification and reporting systems. A residential version of BREEAM In-Use is currently out as a pilot version and feedback received will be considered before its final launch.

The update sees a revision to the BREEAM In-Use certification cycle, this has been updated to provide flexibility to modify an assessment whilst the assessment is certified, and to increase the length of the certificate's validity and enhance performance of the asset throughout if desired.

The BREEAM In-Use scheme will continue to be available internationally, providing a sustainability framework to assess the operational performance of existing commercial and residential buildings.

### Consultation

While all BREEAM Schemes are underpinned and driven by science and research, BRE Global is committed to seeking feedback and comments from our clients, the BREEAM Assessor community and other stakeholders. We welcome any feedback on the draft scheme. Please visit the website for details on how you can get involved.

## Operational Updates

### BREEAM In-Use Certification cycle

The certification cycle within BREEAM In-Use International V6 has been updated to provide flexibility to modify an assessment whilst the assessment is certified, and to increase the length of the initial certification period. Please see below for an explanation of the key elements of the new cycle:

#### Assessment registration

As with BREEAM In-Use International 2015, the measurement registration will be valid for up to 12 months, or until certification is requested – whichever is sooner.

#### Initial Certification submission – 3 Year Certificate validity

At the point at which the Assessor submits the assessment to BRE Global for certification, the open measurement will be locked (whilst the assessment is undergoing QA checks by BRE Global). Upon successful completion of the QA check BRE Global will issue a **3-year certificate** to the Assessor. This will feature the Issue Date (e.g. 20<sup>th</sup> March 2020) and the Expiry Date (e.g. 20<sup>th</sup> March 2023).

The introduction of a 3-year certification cycle will reduce the frequency of assessment verification being required by an Assessor. The removal of certificate 'renewals' eliminates the administrative process of

‘Confirmation of no significant changes’, which is currently required by the Portfolio Owner and Assessor on an annual basis. Increasing the length of the certificate also reduces the risk of an asset ‘falling out’ of certification.

### Open measurement (Post certification)

At the point at which the 3-year certificate is issued to the BREEAM In-Use Assessor, the assessment within the BREEAM In-Use online platform will automatically ‘re-measure’ (open) to enable modifications to the assessment if required. This will allow users to continue tracking asset performance for the duration of the certificate’s validity and enhance performance of the asset throughout the period if desired.

The online platform will provide notifications when changes made to the performance overall are approaching what BREEAM defines as a ‘Significant Change’. The threshold for what is determined as a ‘Significant Change’ has been amended from a change of 5% or more (to the overall score per assessment Part) to a change of 10% or more (to the overall score per assessment Part).

The following list details the types of changes that can be made during the open measurement:

- Introduction of a new Part
- Changes to the assessment that are determined to be ‘Significant’
- Changes to the assessment that are determined to be ‘Not Significant’
- Changes to the Basic Building Details.

### Mid-cycle certification submissions

If at any point during the first 2 years of the certification, a client wants to recognise the changes that have been made to the assessment, the assessment can be submitted to BRE Global for an **update** to the certificate. This will enable clients to make various amendments to their assessment during the certification cycle without causing unnecessary high costs and complexity. This supports a continuous improvement approach that is at the core of the BREEAM methodology.

BRE Global has introduced a Desk Based Audit verification option for Assessors. This provides an alternative verification route in situations where minor changes (Not significant) to assessments are to be recognised on the certificate.

A QA check will be conducted by BRE Global for all mid-cycle submissions. When the certificate is issued, the existing certificate will be updated to reflect the changes to the assessment - the certificate initial expiry date will remain fixed.

### Amendment of Version numbering

BREEAM schemes globally are moving away from using the ‘year published’ as the version and towards more simple number structures. The updated scheme will be called BREEAM In-Use International V6.

## Technical Update

### General changes

The following areas have been updated to improve the readability of the manual.

### Renaming of Parts

Part 2 has been renamed as 'Management Performance' (previously 'Building Management') to better align and reflect its aim and overall purpose. This also provides further consistency with Part 1 (Asset Performance).

### Revision of Scope: Eligibility criteria

The eligibility criteria have been reformatted and edited to include criteria for assessments which may contain vacant space. This has been introduced to ensure that an accurate energy benchmark can be calculated.

### Articulation of value

Summary, context and value statements have been provided for each Category and each Issue within the Category. This provides more understanding as to why the questions have been asked and what each Issue aims to achieve.

### Streamlining of Answer Options

The options to select "Don't know" or "Other" answer options have been removed from all issues (except the Energy category).

### Introduction of two new categories:

Two new categories have been introduced in the updated scheme which will replace the Materials and Waste categories in the BREEAM In-Use International 2015 scheme.

### Resilience

BREEAM recognises that resilience is becoming a key aspect in understanding the sustainability of a building. As such, we have added a new Resilience category for Asset Performance and Management Performance. This category encourages the consideration, and consequently, proactive management of any physical or climate-related risks to the asset. Some issues in this category have been moved from the existing Materials category and some are new to this version of the standard. Please see Table 5 and 6 below for more details.

### Resources

In recent years the construction industry has improved recycling and reuse rates of construction waste. The circular economy concept has provoked many in the industry to rethink how we see resources – towards a circular rather than a linear 'take-make-waste' model. What was previously seen as 'waste' is now considered to be a potential source of resources that can be exploited rather than disposed of. BREEAM has brought the issues previously in the 'Materials' and 'Waste' categories together into a single 'Resources' category. Following consultation, it is likely that the category title may change to 'Physical Resources', however the draft Technical Manual currently refers to 'Resources'. Please see Table 5 and 6 below for more details.

### Part 3 (Occupier Management) removed

For this release, there has been no technical update to the Part 3 section, as a result this Part has been excluded from the updated scheme manual. For any users wishing to assess against 3 Parts of BREEAM In-Use International (Inc. Occupier Management), the BREEAM In-Use International 2015 will be left open for registrations for a period of up to one year following the launch of BREEAM In-Use International V6. BREEAM

is planning to review and potentially update the Part 3 section as the next stage in development of the scheme.

### Category weightings

Category weightings are fundamental to any asset sustainability assessment method and provide a means of defining and ranking the relative importance and impact of sustainability issues. BREEAM uses an explicit category weighting system to determine the overall BREEAM score. The process for defining the BREEAM category weightings is set out in the BREEAM Briefing Paper ‘New Methodology for Generating BREEAM Category Weightings’, available on the BREEAM website. The methodology has been applied in stakeholder consultation activities to generate consensus-based weightings for all categories across the BREEAM family of schemes, including BREEAM In-Use. The outputs from this exercise have been reviewed by BRE Global for the purposes of application in the BREEAM In-Use International V6 scheme and have been adapted slightly to take account of the scope of the updated scheme and the introduction of the Resources and Resilience categories. Please see table 1 below which highlights the changes to the environmental category weightings.

Table 1: Environmental category weighting changes

Environmental category	Part 1		Part 2	
	2015	2019	2015	2019
Management	0	0	15%	11%
Health and Wellbeing	17%	20%	15%	17%
Energy	26.5%	25%	31.5%	27%
Transport	11.5%	5%	0	0
Water	8%	11%	5.5%	9%
Materials	8.5%	N/A	7.5%	N/A
Resources	N/A	13%	N/A	11%
Waste	5%	N/A	0	N/A
Resilience	N/A	13%	N/A	11%
Land use and ecology	9.5%	4%	12.5%	7%
Pollution	14%	9%	13%	7%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

### Minimum standards

To ensure that performance against fundamental environmental issues is not over-looked in pursuit of a particular rating, BREEAM sets minimum standards of performance in key areas, for example, energy and water. As part of the update the minimum standards have been reviewed and where necessary new minimum standards have been introduced. To achieve a particular BREEAM rating, the minimum overall percentage score must be achieved as well as the minimum standards. Tables 2 and 3 below provide the details on issue that include minimum standards.

Table 2: Suggested minimum standards for Part 1 (Asset Performance)

BREEAM issue	Minimum standards by BREEAM In-Use rating: Asset Performance					
	Acceptable	Pass	Good	Very Good	Excellent	Outstanding
Wat 01 – Water monitoring	None		Answer option C (Criterion 1, 2 & 4 only)			
Rsc 02 – Reuse and recycling facilities	None					Answer options C & D (Criterion 1-3)
Rsl 03 – Flood risk assessment	None			Answer option B (Criterion 2)		

Table 3: Suggested minimum standards for Part 2 (Management Performance)

BREEAM issue	Minimum standards by BREEAM In-Use rating: Management Performance					
	Acceptable	Pass	Good	Very Good	Excellent	Outstanding
Man 02 – Management engagement and feedback	None				Answer option E (Criterion 3-4)	
Man 04 – Environmental policies and procedures	None			Answer option B (Criterion 1)		
Rsc 05 – Sustainable procurement	Answer options C, D, E & F (Criterion 4 & 9 only)					

### Introduction to exemplary-level credits

Exemplary-level credits have been introduced in the updated scheme to recognise developments that go beyond best practice in a particular aspect of sustainability. These additional credits are awarded to recognise sustainability-related benefits or performance levels not currently recognised by standard BREEAM assessment issues and criteria. This rewards assets and operators that go beyond best practice in a particular aspect of sustainability.

Each exemplary-level credit achieved adds 1% to an asset's overall score. The maximum number of 'exemplary-level credits' that can be awarded for any one asset is 10 per Part; therefore, the maximum additional score available is 10% per Part. Exemplary-level credits can be awarded regardless of the asset's final BREEAM rating, i.e. they can be awarded at any BREEAM rating level, and no assessment can exceed 100% for the overall score. Table 4 below shows the issues that include exemplary-level credits:

Table 4: Suggested exemplary-level credits per Issue

Part	Issue	Answer Option	Credits
Asset Performance	Hea 01 – Daylighting	Option E	1
Asset Performance	Hea 03 – Internal and external lighting levels	Option E	1
Asset Performance	Hea 04 – Lighting control	Option E	1
Asset Performance	Hea 12 – Inclusive design	Option F	1
Asset Performance	Ene 10 – Demand side management	N/A	4
Asset Performance	Tra 01 – Alternative modes of transport	Option H	1
Asset Performance	Wat 01 – Water monitoring	Option G	1
Asset Performance	Rsc 02 – Reuse and recycling facilities	Option E	1
		Option F	1
Asset Performance	Rsc 04 – Future adaptation	Option D	1
Asset Performance	Rsl 03 – Flood risk assessment	Option G	1
Asset Performance	Lue 02 – Ecological features of planted area	Option I	1
Management Performance	Hea 17 – Acoustics conditions	Option E	1
Management Performance	Ene 24 – Reduction of carbon emissions	N/A	5
Management Performance	Rsc 05 – Sustainable procurement	Option G	1
		Option H	1

### Technical Manual restructure

The Technical Manual has gone through significant restructuring to enhance understanding and improve readability. As a result, some issues have been merged, moved, renamed, renumbered or, where necessary, deleted. Table 5 below provides an overview of changes to the assessment issues:

Table 5: Changes to assessment issues

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
2	Man 01 – Building user guide	Man 01 – Building user guide <ul style="list-style-type: none"> <li>• No change</li> </ul>
2	Man 02 – Building user education	Man 02 – Management engagement and feedback <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Merge of original Issues Man 02, Man 03, Hea 23, Hea 24 and Pol 14</li> </ul>
2	Man 03 – Building user information	Man 03 – Maintenance policies and procedures <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Merge of original Issues Man 04, Man 05, Man 06, Man 09, Man 12, Pol 09 and Pol 10.</li> </ul>
2	Man 04 – Operation and maintenance manuals	Man 04 – Environmental policies and procedures <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Merge of original Issues Man 07, Man 08.</li> </ul>
2	Man 05 – Maintenance procedures	Man 05 – Green Lease <ul style="list-style-type: none"> <li>• Original Issue Man 11 renumbered</li> </ul>
2	Man 06 – Maintenance policy Man 07 – Environmental policies and responsibilities Man 08 – Environmental policies Man 09 – Operating procedures Man 10 – Leak testing Man 11 – Green lease Man 12 – Building controls review	Renumbered, deleted or merged into either Man 03, Man 04 or Man 05 (see above)
2	Man 13 – Building adaptation	Rsc 04 – Future adaptation <ul style="list-style-type: none"> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
1	Hea 01 – Glazing	Hea 01 – Daylighting

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
		<ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 02 – Glare control	Hea 02 – Control of glare from sunlight <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 03 – Thermal control	Hea 07 – User comfort controls <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 04 – Ventilation control	Merged into Hea 07, see above
1	Hea 05 – Microbial contamination	Merged into Hea 18, see below
1	Hea 06 – Water provisions	Hea 13 – Drinking water provision <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 07 – Indoor and/or outdoor space	Hea 11 – Provision of rest areas <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 08 – Illuminance levels (Lux)	Hea 03 – Internal and external lighting levels <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1	Hea 09 – Lighting control	Hea 04 – Lighting control <ul style="list-style-type: none"> <li>Renumbered</li> </ul>
1	Hea 10 – Inclusive design	Hea 12 – Inclusive design <ul style="list-style-type: none"> <li>Renumbered</li> </ul>
1	Hea 11 – Ventilation requirements	Hea 08 – Ventilation system air intakes and exhausts <ul style="list-style-type: none"> <li>Renamed</li> </ul>
1		Hea 05 – High frequency lighting control gear <ul style="list-style-type: none"> <li>New issue added</li> </ul>
1		Hea 06 – View out <ul style="list-style-type: none"> <li>New issue added (based on BIU 2015 Part 3 issue Hea 28)</li> </ul>
2	Hea 12 – Fresh air rates	Issue deleted
2	Hea 13 – Operating temperature	Hea 14 – Thermal comfort <ul style="list-style-type: none"> <li>Renamed</li> </ul>
2	Hea 14 – Internal environment: CO2 monitoring	Hea 09 – Carbon dioxide sensors



Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
		<ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
2	Hea 15 – Internal environment: CO monitoring	Hea 10 – Carbon monoxide detection <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
2		Hea 15 – Smoking policy <ul style="list-style-type: none"> <li>• New issue added</li> </ul>
2	Hea 16 – Internal environment: NOx monitoring	Issue deleted
2	Hea 17 – Internal environment: refurbishment/renovation/redecoration	Hea 16 – Indoor air quality management <ul style="list-style-type: none"> <li>• Merge of original issues Hea 17, Hea 18, Hea19, Hea 21</li> </ul>
2	Hea 18 – Volatile organic compounds	Merged into Hea 16, see above
2	Hea 19 – Control of chemicals	Merged into Hea 16, see above
2	Hea 20 – Acoustic conditions	Hea 17 – Acoustic conditions <ul style="list-style-type: none"> <li>• Renumbered</li> </ul>
2	Hea 21 – Deep cleaning	Merged into Hea 16, see above
2	Hea 22 – Legionella risk management	Hea 18 – Legionella risk management <ul style="list-style-type: none"> <li>• Merge of original issues Hea 05, Hea 22</li> </ul>
2	Hea 23 – Occupant satisfaction	Man 02 – Building user education <ul style="list-style-type: none"> <li>• Moved and merged into Man 02</li> </ul>
2	Hea 24 – Occupant satisfaction feedback	Man 02 – Building user education <ul style="list-style-type: none"> <li>• Moved and merged into Man 02</li> </ul>
1	Ene 01 – Heating, ventilation and air conditioning (HVAC)	Ene 01 – Building services <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Ene 02 – Ventilation strategy	Ene 02 – Percentage of mechanical ventilation <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Ene 03 – Heat loss	Ene 03 – Fabric performance <ul style="list-style-type: none"> <li>• Renamed</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
1	Ene 04 – Pressure/air leakage test	Ene 04 – Air permeability of the fabric <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Ene 05 – Heating	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 06 – Boiler efficiency	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 07 – Heat pump efficiency	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 08 – Fuel usage for heat generation	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 09 – Heat distribution	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 10 – Heat emitter type	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 11 – Mechanical and electrical heating equipment	Ene 06 – Heating <ul style="list-style-type: none"> <li>• Merged original issues Ene 05, Ene 06, Ene 07, Ene 08, Ene 09, Ene 10, Ene 11</li> </ul>
1	Ene 12 – Cooling system	Ene 05 – Cooling <ul style="list-style-type: none"> <li>• Merged original issues Ene 12, Ene 13, Ene 14, Ene 15</li> </ul>
1	Ene 13 – Efficiency of cooling system	Ene 05 – Cooling <ul style="list-style-type: none"> <li>• Merged original issues Ene 12, Ene 13, Ene 14, Ene 15</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
1	Ene 14 – Cooling distribution	Ene 05 – Cooling <ul style="list-style-type: none"> <li>Merged original issues Ene 12, Ene 13, Ene 14, Ene 15, Ene 17, Ene 18</li> </ul>
1	Ene 15 – Heating, ventilation and air conditioning (HVAC) efficiency	Ene 05 – Cooling <ul style="list-style-type: none"> <li>Merged original issues Ene 12, Ene 13, Ene 14, Ene 15, Ene 17, Ene 18</li> </ul>
1	Ene 16 – Refrigerant cooling system	Issue deleted
1	Ene 17 – Cooling emitter type	Ene 05 – Cooling <ul style="list-style-type: none"> <li>Merged original issues Ene 12, Ene 13, Ene 14, Ene 15, Ene 17, Ene 18</li> </ul>
1	Ene 18 – Glazing	Ene 05 – Cooling <ul style="list-style-type: none"> <li>Merged original issues Ene 12, Ene 13, Ene 14, Ene 15, Ene 17, Ene 18</li> </ul>
1	Ene 19 – Mechanical and electrical cooling equipment	Ene 05 – Cooling <ul style="list-style-type: none"> <li>Merged original issues Ene 12, Ene 13, Ene 14, Ene 15, Ene 17, Ene 18</li> </ul>
1	Ene 20 – Specific fan power	Ene 08 – Ventilation <ul style="list-style-type: none"> <li>Merged original issues Ene 20, Ene 21, Ene 22</li> </ul>
1	Ene 21 – Leakage tests	Ene 08 – Ventilation <ul style="list-style-type: none"> <li>Merged original issues Ene 20, Ene 21, Ene 22</li> </ul>
1	Ene 22 – Mechanical and electrical ventilation equipment	Ene 08 – Ventilation <ul style="list-style-type: none"> <li>Merged original issues Ene 20, Ene 21, Ene 22</li> </ul>
1	Ene 23 – Water heating	Ene 09 – Water heating <ul style="list-style-type: none"> <li>Merged original issues Ene 23, Ene 24</li> </ul>
1	Ene 24 – Water heating energy sources	Ene 09 – Water heating <ul style="list-style-type: none"> <li>Merged original issues Ene 23, Ene 24</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
1	Ene 25 – High frequency ballast	Ene 07 – Internal lighting <ul style="list-style-type: none"> <li>• Merged original issues Ene 25, Ene 26, Ene 27, Ene 28</li> </ul>
1	Ene 26 – Internal lighting types	Ene 07 – Internal lighting <ul style="list-style-type: none"> <li>• Merged original issues Ene 25, Ene 26, Ene 27, Ene 28</li> </ul>
1	Ene 27 – Automatic lighting controls	Ene 07 – Internal lighting <ul style="list-style-type: none"> <li>• Merged original issues Ene 25, Ene 26, Ene 27, Ene 28</li> </ul>
1	Ene 28 – Occupancy sensors	Ene 07 – Internal lighting <ul style="list-style-type: none"> <li>• Merged original issues Ene 25, Ene 26, Ene 27, Ene 28</li> </ul>
1	Ene 29 – Legislation	Ene 12 – Local energy performance asset rating <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Ene 30 – Onsite renewables	Ene 13 – Solar PV panels Ene 14 – Solar thermal panels <ul style="list-style-type: none"> <li>• Split into separate issues</li> </ul>
2	Ene 31 – Energy consumption start date	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 32 – Energy consumption end date	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 33 – Electricity consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 34 – Natural gas consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 35 – LPG consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 36 – Gas oil consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 37 – Solid fossil fuel consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
2	Ene 38 – Biodiesel consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 39 – Biogas consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 40 – Wood/Waste wood consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 41 – District heating consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 42 – Carbon intensity district heating	Ene 20 – Carbon intensity of district heating and cooling <ul style="list-style-type: none"> <li>• Merged original issues Ene 42, Ene 44</li> </ul>
2	Ene 43 – District cooling consumption	Ene 19 – Energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 31 to Ene 41, Ene 43</li> </ul>
2	Ene 44 – Carbon intensity district cooling	Ene 20 – Carbon intensity of district heating and cooling <ul style="list-style-type: none"> <li>• Merged original issues Ene 42, Ene 44</li> </ul>
2	Ene 45 – Electricity exported	Ene 21 – Electricity generated and exported <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Ene 46 – Non-standard energy uses	Ene 22 – Non standard energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 46 to 61</li> </ul>
2	Ene 47, 50, 53, 56 & 59 – Non-standard energy use	Ene 22 – Non standard energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 46 to 61</li> </ul>
2	Ene 48, 51, 54, 57 & 60 – Non-standard energy consumption	Ene 22 – Non standard energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 46 to 61</li> </ul>
2	Ene 49, 52, 55, 58 & 61 – Non-standard energy consumption floor area	Ene 22 – Non standard energy consumption <ul style="list-style-type: none"> <li>• Merged original issues Ene 46 to 61</li> </ul>
2	Ene 62 – Energy consumption monitoring	Ene 23 – Energy consumption reporting <ul style="list-style-type: none"> <li>• Merged original issues Ene 62, Ene 63</li> <li>• Renamed</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
2	Ene 63 – Energy consumption data use	Ene 23 – Energy consumption reporting <ul style="list-style-type: none"> <li>• Merged original issues Ene 62, Ene 63</li> <li>• Renamed</li> </ul>
2	Ene 64 – Sub-metering: main energy sources	Ene 15 – Monitoring energy uses <ul style="list-style-type: none"> <li>• Merged original issues Ene 64, Ene 65</li> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
2	Ene 65 – Sub-metering: other energy sources	Ene 15 – Monitoring energy uses <ul style="list-style-type: none"> <li>• Merged original issues Ene 64, Ene 65</li> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
2	Ene 66 – Sub-metering: tenanted areas	Ene 16 – Monitoring tenanted areas <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
1	Tra 01 – Cyclist facilities	Tra 01 – Alternative modes of transport <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Tra 02 – Proximity to public transport	Tra 02 – Proximity to public transport <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Tra 03 – Proximity to amenities	Tra 03 – Proximity to amenities <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Tra 04 – Pedestrian and cyclist safety	Tra 04 – Pedestrian and cyclist safety <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 01 – Water meter	Wat 01 – Water monitoring <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Wat 02 – Water efficient equipment: WCs	Wat 02 – Water efficient equipment: toilets <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Wat 03 – Water efficient equipment: urinals	Wat 03 – Water efficient equipment: urinals <ul style="list-style-type: none"> <li>• No change</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
1	Wat 04 – Water efficient equipment: hand washing basins	Wat 04 – Water efficient equipment: hand washing basins <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 05 – Water efficient equipment: showers	Wat 05 – Water efficient equipment: showers <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 06 – Water efficient equipment: white goods	Wat 06 – Water efficient equipment: white goods <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 07 – Leak detection system	Wat 07 – Leak detection system <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 08 – Leak prevention	Wat 08 – Leak prevention <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 09 – Isolation valves	Wat 09 – Isolation valves <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Wat 10 – Reducing mains water consumption	Wat 10 – Reducing utility-supplied water consumption <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Wat 11 – Annual consumption	Wat 11 – Water consumption <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Wat 12 – Water consumption: monitoring and reporting	Wat 13 – Water consumption: reporting <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Removed monitoring content</li> </ul>
2	Wat 13 – Drinking water	Hea 19 – Drinking water management <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Health and Wellbeing category</li> </ul>
2	Wat 14 – Refurbishment	Wat 14 – Water strategy <ul style="list-style-type: none"> <li>• Merge of original issues Wat 14, Wat 15 and Wat 17</li> </ul>
2	Wat 15 – Water strategy	Wat 14 – Water strategy <ul style="list-style-type: none"> <li>• Merge of original issues Wat 14, Wat 15 and Wat 17</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
2	Wat 16 – Water recycling	Wat 12 – Water recycling <ul style="list-style-type: none"> <li>• No change</li> </ul>
2	Wat 17 – Aspects and impacts	Wat 14 – Water strategy <ul style="list-style-type: none"> <li>• Merge of original issues Wat 14, Wat 15 and Wat 17</li> </ul>
1	Mat 01 – Condition survey	Rsc 01 – Condition survey <ul style="list-style-type: none"> <li>• Merge of original issues Mat 01 and Mat 08</li> </ul>
1	Mat 02 – Security advice	Rsl 05 – Security advice <ul style="list-style-type: none"> <li>• Moved to Resilience category</li> <li>• Moved to Part 2 (Management Performance)</li> </ul>
1	Mat 03 – Intruder alarm system	Rsl 01 – Alarm systems <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Resilience category</li> <li>• 24hr security guard criteria moved into Rsl 06, see below</li> <li>• Moved to Part 2 (Management Performance)</li> </ul>
1	Mat 04 – Alarm system monitoring	Rsl 06 – Alarm system monitoring and security guards <ul style="list-style-type: none"> <li>• Moved to Resilience category</li> <li>• Requirement for alarm monitoring in Mat 04 has been combined with the requirement for a 24hr security guard in Mat 03</li> <li>• Moved to Part 2 (Management Performance)</li> </ul>
1	Mat 05 – Natural hazards	Rsl 04 – Hazard preparedness and mitigation <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Resilience category</li> <li>• Moved to Part 2 (Management Performance)</li> </ul>
1	Mat 06 – Future adaptation	Rsc 04 – Future adaptation <ul style="list-style-type: none"> <li>• Moved to Resources category</li> <li>• Merged with original Issue Man 13</li> </ul>
1	Mat 07 – Designing for robustness	Rsl 02 – Durable and resilient features



Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
		<ul style="list-style-type: none"> <li>• Renamed</li> <li>• Moved to Resilience category</li> </ul>
2	Mat 08 – Condition survey	Merged into Rsc 01 – Condition survey, see above
2	Mat 09 – Sustainable procurement policy	Rsc 05 – Sustainable procurement <ul style="list-style-type: none"> <li>• Merge of original issues Mat 09 and Mat 10</li> </ul>
2	Mat 10 – Sustainable procurement	Merged into Rsc 05, see above
2	Mat 11 – Risk management	Rsl 07 – Fire risk management <ul style="list-style-type: none"> <li>• Merge of original issues Mat 11 and Mat 12</li> </ul>
2	Mat 12 – Risk management	Rsl 07 – Fire risk management <ul style="list-style-type: none"> <li>• Merge of original issues Mat 11 and Mat 12</li> </ul>
2	Mat 13 – Emergency plan	Rsl 08 – Emergency plan <ul style="list-style-type: none"> <li>• Moved to Resilience category</li> </ul>
2	Mat 14 – Hazard management	Rsl 04 – Hazard preparedness and mitigation <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Wst 01 – Storage of operational waste	Rsc 02 – Reuse and recycling facilities <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Le 01 – Planted area	Lue 01 – Planted area <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Le 02 – Ecological features of planted area	Lue 02 – Ecological features of planted area <ul style="list-style-type: none"> <li>• No change</li> </ul>
1	Le 03 – Ecology report	Lue 03 – Ecology report <ul style="list-style-type: none"> <li>• No change</li> </ul>
2	Le 04 – Biodiversity action plan	Lue 04 – Biodiversity action plan <ul style="list-style-type: none"> <li>• Merged with original issue Le 05</li> </ul>
2	Le 05 – External landscaping/maintenance	Lue 04 – Biodiversity action plan <ul style="list-style-type: none"> <li>• Merged with original issue Le 04</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
1	Pol 01 – Pollution prevention	Pol 01 – Minimising watercourse pollution <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Pol 02 – Flood risk assessment	Rsl 03 – Flood risk assessment <ul style="list-style-type: none"> <li>• Moved to Resilience category</li> </ul>
1	Pol 03 – Impact mitigation	Pol 02 – Surface water runoff impact mitigation <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Pol 04 – Impacts of refrigerants	Pol 05 – Global warming impact of refrigerants <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Pol 05 – Leak detection systems	Pol 06 – Refrigerant leak detection systems <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
1	Pol 06 – NOx emissions	Pol 04 – Local air quality <ul style="list-style-type: none"> <li>• General principles of air quality monitoring included in a new issue</li> <li>• Specific content relating to onsite combustion of fuels leading to NOx emissions moved to Health and Wellbeing category</li> </ul>
2	Pol 07 – Night time light pollution	Pol 07 – Reduction of night time light pollution <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Pol 08 – Chemical storage	Pol 03 – Chemical storage <ul style="list-style-type: none"> <li>• Moved to Part 1 (Asset Performance)</li> </ul>
2	Pol 09 – Bunding	Pol 08 – Inspection of watercourse pollution prevention features <ul style="list-style-type: none"> <li>• Renamed</li> <li>• Merged with original issue Pol 10</li> </ul>
2	Pol 10 – Light-liquid separators	Merged with original issue Pol 09, see above
2	Pol 11 – Refrigerants	Pol 09 – Refrigerant replacement <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Pol 12 – Land contamination mitigation	Pol 10 – Land contamination mitigation <ul style="list-style-type: none"> <li>• No change</li> </ul>

Part	BREEAM In-Use International 2015 Issue	BREEAM In-Use International V6 Issue
2	Pol 13 – Emergency preparedness and response	Pol 11 – Response to pollution incidents <ul style="list-style-type: none"> <li>• Renamed</li> </ul>
2	Pol 14 – Complaints	Man 02 – Management engagement and feedback <ul style="list-style-type: none"> <li>• Moved to Management category</li> </ul>

## Summary of technical changes

Table 6 below summarises the key technical differences and changes between BREEAM In-Use International 2015 and BREEAM In-Use International V6. Whilst it does not outline in detail every change, it aims to signpost the areas of the manual that have been updated. It does not elaborate on or explain the change in detail. For full details please see the BREEAM In-Use International: Commercial V6 consultation manual.


**Key:** Type of change


Significant change
Moderate change
Minor Change
No Change
New Issue / category

AP = Asset Performance

MP = Management Performance

Table 6: Key technical changes for BREEAM In-Use International V6

Part	Issue	Title	Type of change	Credits		Minimum standards		Exemplary level Credits	Description of key changes to the issue
				2015	V6	2015	V6		
				Management					
MP	Man 01	Building user guide	No change	2	2	No	No	No	- n/a
MP	Man 02	Management engagement and feedback	Moderate	15 (cumulative)	9	No	Yes	No	<ul style="list-style-type: none"> <li>- This issue combines a range of issues relating to the communications to and from Building Management including:                             <ul style="list-style-type: none"> <li>○ Building user education</li> <li>○ Building user information</li> <li>○ Occupant satisfaction</li> <li>○ Complaints procedure</li> </ul> </li> <li>- There is no longer a separate issue for feeding back on Occupant satisfaction surveys. This is now required to achieve the credits</li> <li>- There is only 1 credit now available for having a Complaints procedure. This is a basic requirement which is relatively easy to achieve. Therefore, is being rewarded accordingly.</li> </ul>
MP	Man 03	Maintenance policies and procedures	Moderate	14 (cumulative)	13	No	No	No	<ul style="list-style-type: none"> <li>- This issue combines a range of issues relating to policies and procedures including:                             <ul style="list-style-type: none"> <li>○ Operation and maintenance manuals</li> <li>○ Maintenance procedures</li> </ul> </li> </ul>

									<ul style="list-style-type: none"> <li>○ Maintenance policy</li> <li>○ Building controls review</li> </ul> <p>- All maintenance policies must now be proactive</p>
MP	Man 04	Environmental policies and procedures	Moderate	12 (cumulative)	6	No	Yes	No	<ul style="list-style-type: none"> <li>- This issue combines a range of issues relating to the environmental policies of the building including:                             <ul style="list-style-type: none"> <li>○ Environmental policies and responsibilities</li> <li>○ Environmental policies</li> <li>○ Operating procedures</li> </ul> </li> </ul>
MP	Man 05	Green lease	Significant	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Credits are now available if smaller percentages of tenants are covered, to encourage asset owners to start the process</li> <li>- There is now encouragement for tenants to share environmental data</li> <li>- This issue can now be filtered out if it is not applicable</li> </ul>
 <h2 style="margin: 0;">Health and Wellbeing</h2>									
AP	Hea 01	Daylighting	Significant	2	4	No	No	1	<ul style="list-style-type: none"> <li>- Issue renamed from 'Glazing'</li> <li>- Requirements aligned with BREEAM In-Use International Residential Pilot and adapted to provide a more robust assessment of the levels of daylight within a commercial asset</li> </ul>
AP	Hea 02	Control of glare from sunlight	Moderate	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Issue renamed from 'Glare control' to clarify that issue only applies to glare from sunlight</li> </ul>

									<ul style="list-style-type: none"> <li>- Requirements aligned with approach in BREEAM New Construction schemes</li> </ul>
AP	Hea 03	Internal and external lighting levels	Moderate	4	4	No	No	1	<ul style="list-style-type: none"> <li>- Issue renamed from 'Illuminance levels (lux)'</li> <li>- Requirements to follow a 'Procedure for measuring illuminance' introduced</li> <li>- Introduction of different performance levels</li> </ul>
AP	Hea 04	Lighting control	Moderate	4	4	No	No	1	<ul style="list-style-type: none"> <li>- Requirements aligned with approach in BREEAM New Construction schemes, including exemplary level requirements for manual dimming controls</li> <li>- Introduction of different performance levels</li> </ul>
AP	Hea 05	High frequency lighting control gear	New issue	N/A	4	No	No	No	<ul style="list-style-type: none"> <li>- New issue based on BREEAM-NL In-Use assessment issue 'HEA101 High frequency lighting'</li> </ul>
AP	Hea 06	View out	New issue	N/A	4	No	No	No	<ul style="list-style-type: none"> <li>- New issue based on BREEAM In-Use International 2015 Part 3 'View out' assessment issue and requirements in BREEAM New Construction and Refurbishment schemes</li> </ul>
AP	Hea 07	User comfort controls	Significant	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Merging of 'Thermal control' and 'Ventilation controls' assessment issues, with issue renamed accordingly, as significant overlap between the content of the two issues</li> <li>- Additional content and requirements added to provide clarity on how to assess the issue</li> </ul>
AP	Hea 08	Ventilation system air	Moderate	2	2	No	No	No	<ul style="list-style-type: none"> <li>- Issue renamed from 'Ventilation requirements' to better reflect the criteria</li> </ul>

		intakes and exhausts								<ul style="list-style-type: none"> <li>- Requirements aligned with the approach in BREEAM UK New Construction 2018 scheme</li> </ul>
AP	Hea 09	Carbon dioxide sensors	Moderate	2	4	No	No	No		<ul style="list-style-type: none"> <li>- Issue relocated from Part 2 and renamed from 'Internal environment: CO2 monitoring'</li> <li>- Requirements aligned with the approach in BREEAM New Construction schemes</li> </ul>
AP	Hea 10	Carbon monoxide detection	Significant	2	2	No	No	No		<ul style="list-style-type: none"> <li>- Issue relocated from Part 2 and renamed from 'Internal environment: CO monitoring'</li> <li>- Additional content and requirements added to clarify when and where carbon monoxide detectors are required</li> </ul>
AP	Hea 11	Provision of rest areas	Minor	4	3	No	No	No		<ul style="list-style-type: none"> <li>- Issue renamed from 'Indoor and/or outdoor space' to better reflect issue aim</li> <li>- Answer options rationalised, and new content added to provide clarity on how to assess the issue</li> </ul>
AP	Hea 12	Inclusive design	Significant	3	4	No	No	1		<ul style="list-style-type: none"> <li>- Issue completely rewritten to provide more detail on how to comply with the criteria</li> </ul>
AP	Hea 13	Drinking water provision	Minor	2	2	No	No	No		<ul style="list-style-type: none"> <li>- Issue renamed from 'Water provisions' to reflect the focus on drinking water</li> <li>- Minor changes to requirements to improve clarity and to ensure water is available to asset visitors</li> </ul>
MP	Hea 14	Thermal comfort	Significant	2	8	No	No	No		<ul style="list-style-type: none"> <li>- Issue renamed from 'Operating temperature'</li> <li>- Issue rewritten to ensure requirements focus on occupant thermal comfort rather than simply on operating temperatures</li> </ul>



MP	Hea 15	Smoking policy	New issue	N/A	1	No	No	No	<ul style="list-style-type: none"> <li>- New issue to ensure assets have a specific policy on smoking covering internal and external areas</li> </ul>
MP	Hea 16	Indoor air quality management	New issue	N/A	7	No	No	No	<ul style="list-style-type: none"> <li>- New issue that combines elements of BREEAM In-Use International 2015 Part 2 assessment issues 'Internal environment: refurbishment/renovation/redecoration', 'Volatile organic compounds', 'Control of chemicals' and 'Deep cleaning'</li> <li>- New requirements for cleaning ventilation system components, regular monitoring of indoor air quality and provision of information to asset users</li> </ul>
MP	Hea 17	Acoustic conditions	Significant	4	8	No	No	1	<ul style="list-style-type: none"> <li>- Requirements aligned with approach in BREEAM New Construction schemes</li> <li>- Introduction of different performance levels</li> </ul>
MP	Hea 18	Legionella risk management	Significant	2	4	No	No	No	<ul style="list-style-type: none"> <li>- Merging and renaming of previous 'Microbial contamination' and 'Legionella management' assessment issues</li> <li>- New and updated content to clarify what needs to be assessed and by who</li> </ul>
MP	Hea 19	Drinking water management	Minor	2	2	No	No	No	<ul style="list-style-type: none"> <li>- Issue moved from Water category and renamed from 'Drinking water'</li> <li>- Content aligned with Hea 13 Drinking water provision</li> </ul>




**Energy**

AP	Asset energy rating			100	40	No	No	No	
	Ene 01	Building services	No change						- n/a
	Ene 02	Percentage of Mechanical ventilation	Minor						- Issue now asks for the percentage of the floor area that is mechanically ventilated. This provides a more detailed input for the energy calculator, so the results more accurately reflect the asset performance.
	Ene 03	Fabric Performance	Significant						- Additional questions now cover the Roofs, Walls and Ground floors, as well as the areas of each of these. - Additionally, the G-value of the glazing and any over shading is also captured. This allows a much better estimate of the building's fabric performance in the energy calculator, so the results more accurately reflect the asset performance.
	Ene 04	Air permeability of the fabric	Moderate						- Additional question on thermographic surveys. - This allows assets that have not undergone an air leakage test to improve the energy performance score if they have carried out a thermographic survey instead.
	Ene 05	Cooling	Minor						- District cooling is now an option, so the results should more accurately reflect the building.
	Ene 06	Heating	Minor						- District heating is now an option, so the results should more accurately reflect the building.

	Ene 07	Internal lighting	Minor						<ul style="list-style-type: none"> <li>- The answers for High frequency ballasts, Daylight sensors and Occupancy sensors are now entered directly, rather than selecting a range. This should more accurately reflect the asset performance.</li> </ul>
	Ene 08	Ventilation	Moderate						<ul style="list-style-type: none"> <li>- Additional questions ask about Variable speed drivers. This provides a more detailed input for the energy calculator, so the results should more accurately reflect the building.</li> </ul>
	Ene 09	Water heating	Minor						<ul style="list-style-type: none"> <li>- Issue now ask for the percentage of the water heated from a centralised system. This provides a more detailed input for the energy calculator, so the results should more accurately reflect the building.</li> </ul>
AP	Ene 10	Demand side management	New Issue	-	0	-	-	4	<ul style="list-style-type: none"> <li>- This issue recognises building's ability to help balance electricity grids. This can avoid excessive levels of reserve power, which make the entire grid more efficient.</li> <li>- This can also provide revenue opportunities for buildings by providing this as a service to the grid operator.</li> </ul>
AP	Ene 11	Installed controls	New Issue	-	4	-	-	-	<ul style="list-style-type: none"> <li>- This issue covers the level of control for a range of systems throughout the building and rewards for being able to manage building services better.</li> <li>- It will also highlight areas of improvement that can be achieved more easily than replacing whole systems.</li> </ul>

AP	Ene 12	Local energy performance asset rating	Significant	3	3			-	<ul style="list-style-type: none"> <li>- This issue now goes into more detail about the local asset rating, differentiating between different asset rating around the world according to their robustness.</li> <li>- It also rewards buildings for not just having an asset rating but also ensure that that rating is better than the local asset energy benchmark.</li> </ul>
AP	Ene 13	Solar photovoltaic (PV) panels	New Issue	-	4	-	-	-	<ul style="list-style-type: none"> <li>- This issue provides a simple assessment of the amount of solar PV installed on an asset compared to the asset's potential.</li> </ul>
AP	Ene 14	Solar Thermal panels	New Issue	-	1	-	-	-	<ul style="list-style-type: none"> <li>- This issue rewards assets that have solar thermal panels, where there is space to install them.</li> </ul>
AP	Ene 15	Monitoring energy uses	No change	8 (cumulatively)	8	No	No	No	<ul style="list-style-type: none"> <li>- This issue combines separate monitoring of both main and other energy uses.</li> </ul>
AP	Ene 16	Monitoring tenanted spaces	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- n/a</li> </ul>
AP	Ene 17	External lighting	New Issue	-	4	-	-	-	<ul style="list-style-type: none"> <li>- This issue covers the efficiency of External Lighting and Car park lighting that is associated with the asset.</li> <li>- If either are not present, and not required, the issue can be filtered out.</li> <li>- This will give a more accurate picture of the total energy use of an asset and potentially highlight further areas of improvement.</li> </ul>

AP	Ene 18	Energy efficient transport systems	New Issue	-	2	-	-	-	<ul style="list-style-type: none"> <li>- This issue covers the efficiency of Lifts, Elevators and Moving walks.</li> <li>- If these are not present the issue can be filtered out.</li> <li>- This will give a more accurate picture of the total energy use of an asset and potentially highlight further areas of improvement.</li> </ul>
MP	Operational energy rating			40	50	No	No	No	
	Ene 19	Energy consumption	Minor						<ul style="list-style-type: none"> <li>- This issue combines all of the energy consumption issues into a single place, making the data entry much quicker</li> <li>- It also permits the use of the Energy allocation calculator to generate inputs into BIU v6, to allow building that do not have complete data to still achieve a score</li> </ul>
	Ene 20	Carbon intensity of district heating and cooling	No change						<ul style="list-style-type: none"> <li>- This combines the District heating and cooling intensities into a single issue</li> </ul>
	Ene 21	Electricity generated and exported	Minor						<ul style="list-style-type: none"> <li>- Data is now gathered on energy generated on-site as well as what is exported.</li> <li>- Energy that is generated and used on-site is already accounted for in Ene 19 Energy consumption. This additional data will provide an insight into how an asset is achieving its performance level. Either through passive design measure or on-site</li> </ul>

									renewables, therefore which areas might have the greatest scope for improvement
	Ene 22	Non-standard energy consumption	No change						- This issue combines all of the Non-standard energy issues into a single place, making the data entry much quicker
MP	Ene 23	Energy consumption reporting	No change	4	4	No	No	No	- n/a
MP	Ene 24	Reduction of carbon emissions	New issue	-	0	No	No	5	<ul style="list-style-type: none"> <li>- This issue compares the carbon emissions of the building 3 years apart and awards credits based on the annual reduction.</li> <li>- Building that have not previously been certified under BREEAM In-Use will be able to enter the data for an earlier year.</li> <li>- To encourage buildings to track their carbon emissions, and avoid penalising building that are less than 3 years old, these are exemplary level credits</li> </ul>
		<b>Transport</b>							
AP	Tra 01	Alternative modes of transport	Significant	4	4	No	No	1	<ul style="list-style-type: none"> <li>- Addition of answer options for provisions for other modes of transport than cycling, such as electric car recharging stations and car sharing spaces</li> <li>- Generally, criteria have been updated to better align with New Construction schemes</li> </ul>

										- Specific guidance added about how to apply cycle provision criteria to sites with multiple buildings
AP	Tra 02	Proximity to public transport	Minor	8	8	No	No	No		- Question changed from considering 'public transport networks' to 'public transport nodes' and question has been adjusted accordingly
AP	Tra 03	Proximity to amenities	Minor	4	4	No	No	No		- Additional amenities added to better align with New Construction schemes
AP	Tra 04	Pedestrian and cyclist safety	Minor	2	2	No	No	No		- Additional answer option to provide an intermediate credit to reward improvements being implemented to assets where full compliance with the issue is not possible
		<b>Water</b>								
AP	Wat 01	Water monitoring	Minor	6	6	No	Yes	1		- Clarification added from technical query responses
AP	Wat 02	Water efficient equipment: toilets	Minor	4	4	No	No	No		- Specific note added for assets with no facilities
AP	Wat 03	Water efficient equipment: urinals	Moderate	4	4	No	No	No		- Change in answer options to remove types of controls and now only concentrates on flush volume - Removal of answer option of no urinals present receiving full credits - Guidance added for urinal troughs

									<ul style="list-style-type: none"> <li>- Specific note added for assets with no facilities</li> </ul>
AP	Wat 04	Water efficient equipment: hand basins	Moderate	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Flow rate boundaries for highest credits changed to reflect current best practice from ≤6 litres/min to ≤4 litres/min</li> <li>- Removal of the need for automation on all taps, only for top credits</li> <li>- Removal of requirement for any automatic control type, now only accepting taps with proximity sensors</li> <li>- Specific note added for assets with no facilities</li> </ul>
AP	Wat 05	Water efficient equipment: showers	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Answer option percentage ranges increased</li> <li>- Now linked in assessment criteria to Tra 01</li> <li>- Exception for medical reasons added</li> <li>- Specific note added for assets with no facilities</li> </ul>
AP	Wat 06	Water efficient equipment: white goods	Moderate	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Change to baseline levels to reflect best practice</li> <li>- Specific note added for assets with no facilities</li> </ul>
AP	Wat 07	Leak detection system	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Clarifications added from BREEAM knowledge base/technical query responses</li> </ul>
AP	Wat 08	Leak prevention	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- n/a</li> </ul>
AP	Wat 09	Isolation valves	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Answer option percentage ranges increased</li> <li>- Specific note added for assets with no facilities</li> </ul>




AP	Wat 10	Reducing utility-supplied water consumption	Minor	2	4	No	No	No	- Examples of uses of non-utility supplied water added
MP	Wat 11	Water consumption	Minor	4	4	No	No	No	- Clarification added from BREEAM knowledge base
MP	Wat 12	Water recycling	Moderate	4	4	No	No	No	- Changed to a free text box entry input - Now linked in assessment criteria to Wat 11
MP	Wat 13	Water strategy	Significant	4	4	No	No	No	- Removal of strategy element of question and just concentrating on reporting now - Changed top credit to needing to publish an annual public report
MP	Wat 14	Water consumption reporting	New Issue (Merge)	n/a	8	n/a	No	No	- Merging of original issues Wat 14, Wat 15 & Wat 17



### Resources

AP	Rsc 01	Condition survey	Moderate		7	No	No	No	- Combination of original issues Mat 01 & 08. - Introducing the need for recommendations on maintenance, repair, replacement and refurbishment for the remaining life of the asset
AP	Rsc 02	Reuse and recycling facilities	Significant		8	No	Yes	2	- Moved away from basing the credits on the number of waste streams because opportunities for this vary from one asset to another. Now based on providing adequate space for the actual/estimated waste from

									the asset for the building management and, separately, for the occupant's operations.
AP	Rsc 03	Resources inventory	New		4	No	No	No	- Addition of construction waste and material storage spaces answers.
AP	Rsc 04	Future adaptation	Moderate		4	No	No	1	- Introducing circular economy principles through implementing a resources inventory.
MP	Rsc 05	Sustainable procurement	Significant		8	No	Yes	2	- Exemplary level credit added for having a building specific functional adaptation strategy study.
									- Answer options split out to recognise different uses and scope that the sustainable procurement plan can cover.
									- Covers a broader range of sustainability considerations for products and services.
									- Plan to be more supportive and proactive in assisting sustainable procurement.
									- All timber-based products must be legal.
MP	Rsc 06	Optimising reuse and recycling	New issue (Merge)		6	No	No	No	- New issue on gathering waste data in a standardised way; supporting and encouraging occupant participation in reuse/recycling; and setting effective targets.
									- Merge of Part 3 original issues Wst 08 – Waste sent to landfill, Wst 09 – Waste diverted from landfill
									- & Wst 10 – Waste sent for incineration
			<h2>Resilience</h2>						

AP	Rsl 01	Alarm systems	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Intruder alarms were previous within original issue Mat 03</li> <li>- They have now been separated from the requirement to have a 24hr security guard which is in Rsl 05</li> </ul>
AP	Rsl 02	Durable and resilient features	Moderate	2	8	No	No	No	<ul style="list-style-type: none"> <li>- More specific durable and resilient design features are included that align with BREEAM New Construction</li> </ul>
AP	Rsl 03	Flood risk assessment	Moderate	4	4	No	Yes	1	<ul style="list-style-type: none"> <li>- Credits are now available for Flood risk assessments that only cover River and Tidal flooding, allowing more national flood maps to be used</li> <li>- Exemplary level credit for including climate change in the Flood risk assessment</li> </ul>
MP	Rsl 04	Hazard preparedness and mitigation	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- n/a</li> </ul>
MP	Rsl 05	Security advice	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Previously original issue Mat 05</li> </ul>
MP	Rsl 06	Alarm system monitoring and security guards	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- The requirement for Alarm system monitoring has been combined with the requirement for a 24hr security guard</li> </ul>
MP	Rsl 07	Fire risk management	Minor	4 (cumulative)	4	No	No	No	<ul style="list-style-type: none"> <li>- The two original issues for Fire risk management (Mat 11, Mat 12) have been combined</li> <li>- A Fire risk assessment is now required to get the Fire risk management credits</li> </ul>
MP	Rsl 08	Emergency plan	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- n/a</li> </ul>

		Land Use and Ecology							
AP	Lue 01	Planted Area	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Changed answer option input to account for numerical data collection</li> <li>- Addition of methodology section to explain how to measure the asset footprint and percentage (%) of planted area</li> </ul>
AP	Lue 02	Ecological features of planted area	Minor	2	2	No	No	1	<ul style="list-style-type: none"> <li>- Increase in the diversity of permitted ecological features.</li> <li>- Decrease in credit allocation per ecological feature implemented</li> </ul>
MP	Lue 03	Ecology report	Moderate	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Addition of time scales to the ecology report</li> <li>- The asset now has to implement some of the actions in the ecology report before it can be considered for any credits.</li> <li>- Optional offsetting of ecological enhancement has been included.</li> </ul>
MP	Lue 04	Biodiversity management plan	Significant	4	6	No	No	No	<ul style="list-style-type: none"> <li>- This issue has been combined with original Le 05.</li> <li>- Increase in the credit allowance and a two-route option has been implemented – one for more complex sites.</li> <li>- The option for offsetting the ecological enhancement has continued to be used.</li> </ul>
		Pollution							

AP	Pol 01	Minimising watercourse pollution	Minor	4	4	No	No	No	<ul style="list-style-type: none"> <li>- Requirements for Light liquid separators and Grease separators have been split to provide clarity</li> <li>- If these are not applicable to the asset the issue can be filtered out</li> </ul>
AP	Pol 02	Surface water run-off impact mitigation	No change	2	2	No	No	No	<ul style="list-style-type: none"> <li>- This issue was previously Pol 03 the name has changed to align with BREEAM New Construction</li> </ul>
AP	Pol 03	Chemical storage	Minor	4	2	No	No	No	<ul style="list-style-type: none"> <li>- This issue has been moved from Part 2 to Part 1</li> <li>- The number of credits has been reduced as this is a relatively basic requirement</li> <li>- The issue can now be filtered out if it is not applicable</li> </ul>
AP	Pol 04	Local air quality	Significant	4	4	No	No	No	<ul style="list-style-type: none"> <li>- This issue was previously Pol 06</li> <li>- The issue now goes beyond asking if NOx is produced and sets limits on how much can be produced</li> <li>- Limits for Particulates and VOC have also been set to address other aspects of Local air quality</li> </ul>
AP	Pol 05	Global warming potential of refrigerants	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- This issue was previously Pol 04</li> <li>- The issue can now be filtered out if it is not applicable</li> </ul>
AP	Pol 06	Refrigerant leak detection systems	No change	4	4	No	No	No	<ul style="list-style-type: none"> <li>- This issue was previously Pol 05</li> <li>- The issue can now be filtered out if it is not applicable</li> </ul>

MP	Pol 07	Reduction of night time light pollution	Moderate	4	4	No	No	No	- The Aim of the issue and Answer options remain similar. However, much more detail is now provided on how to reduce light pollution
MP	Pol 08	Inspection of watercourse pollution prevention features	Minor	4 (cumulative)	3	No	No	No	- This issue now combines; Bunding and Light-Liquid separators. Grease separators have also been included; these were previously included however only via a technical enquiry. - The separate answers can now be filtered out if not applicable
MP	Pol 09	Refrigerant replacement	Minor	2	2	No	No	No	- Refrigerants with a low environmental impact have now been defined as having a GWP of less than 10. This aligns with our definition in Pol 05.
MP	Pol 10	Land contamination mitigation	No change	4	4	No	No	No	- n/a
MP	Pol 11	Response to pollution incidents	No change	2	2	No	No	No	- This issue was previously Pol 13 - The title has been changed to better reflect what the issue addresses