



Built Environment Carbon Database

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BECD version 1.0.0 - User Guide



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Account creation

Visit <https://carbon.becd.co.uk/> to access BECD through your web browser.

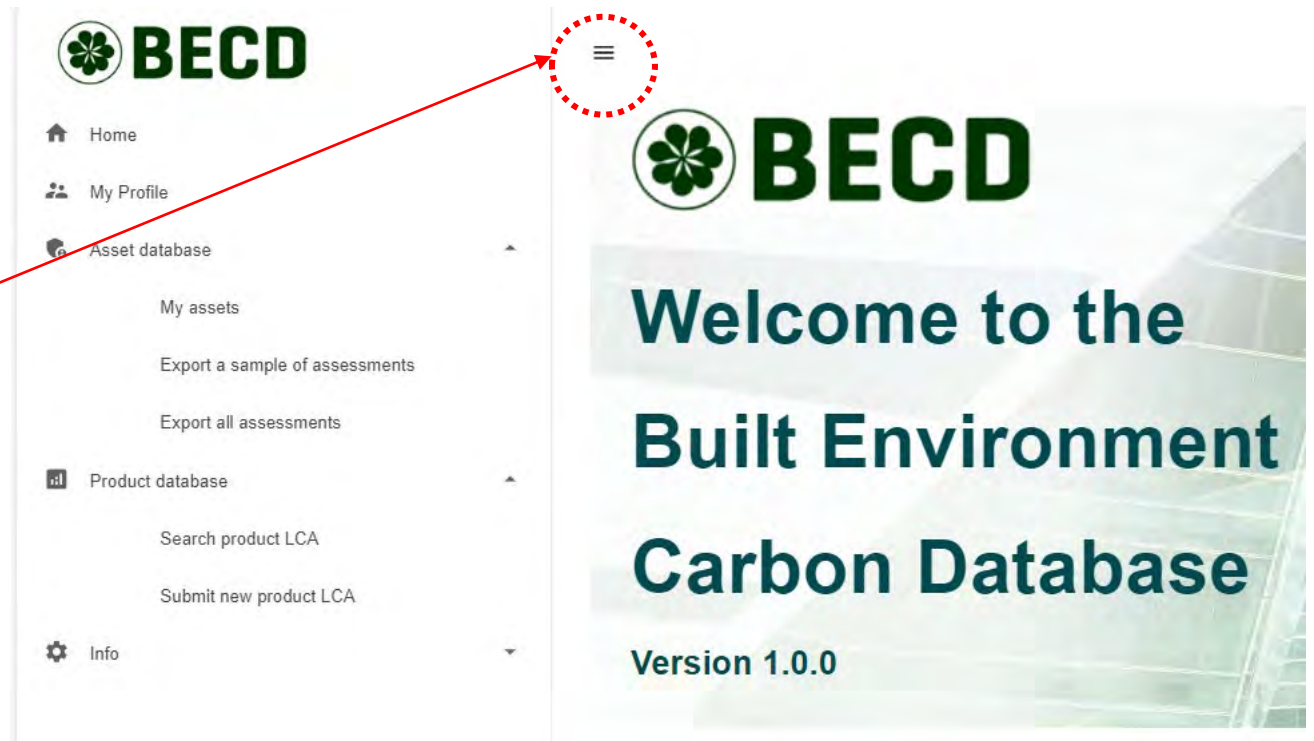
To access the database, you will need to create an account and verify it through your email address. Please check your spam folder if you have not received a verification email from noreply@becd.co.uk

By using BECD you agree to the terms and conditions found here: <https://www.becd.co.uk/user-agreement>



Once you have logged in, use the menu on the left panel to navigate. Click on "My profile" to view and edit your profile info.

Use this button to open and close the left menu panel.

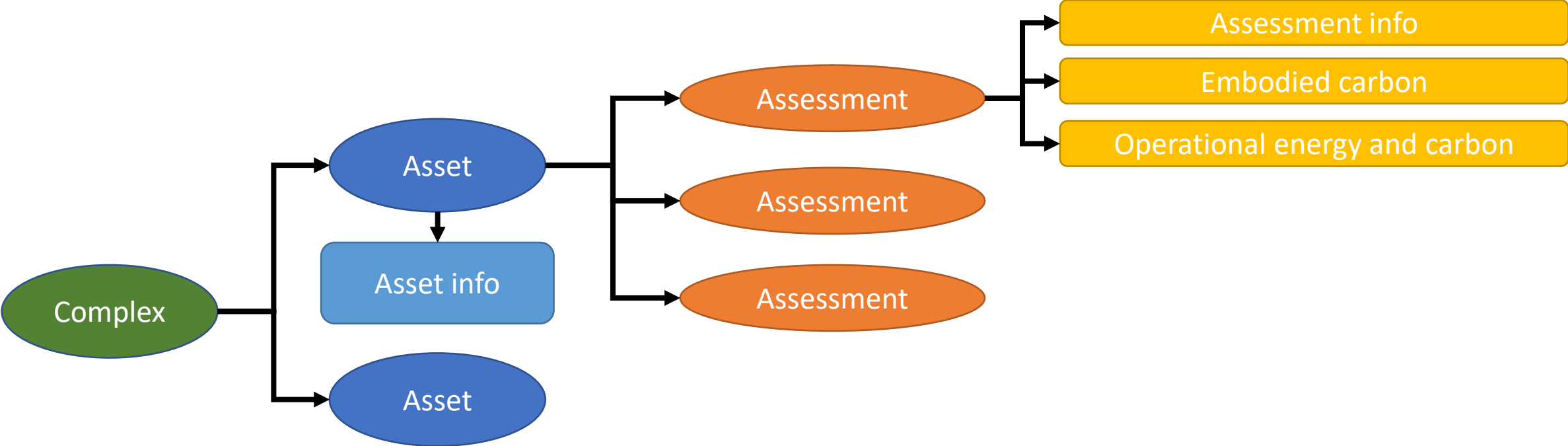


Asset database - Structure

This diagram describes how data is structured in the Asset section of BECD. Assets represent buildings, either existing or at the designs stage. A set of information is associated to each Asset, such as location and building type. Complexes represent groups of Assets, such as a row of terraced houses. Assets are created independently and can be attributed to an existing Complex after their creation.

Once created, an Asset can be associated with different Assessments. Each Assessment represents an evaluation of embodied and/or operational carbon emissions, which can happen at different stages of the Asset lifecycle. A second set of information is associated with each Assessment, such as scope, dimensions and emissions.

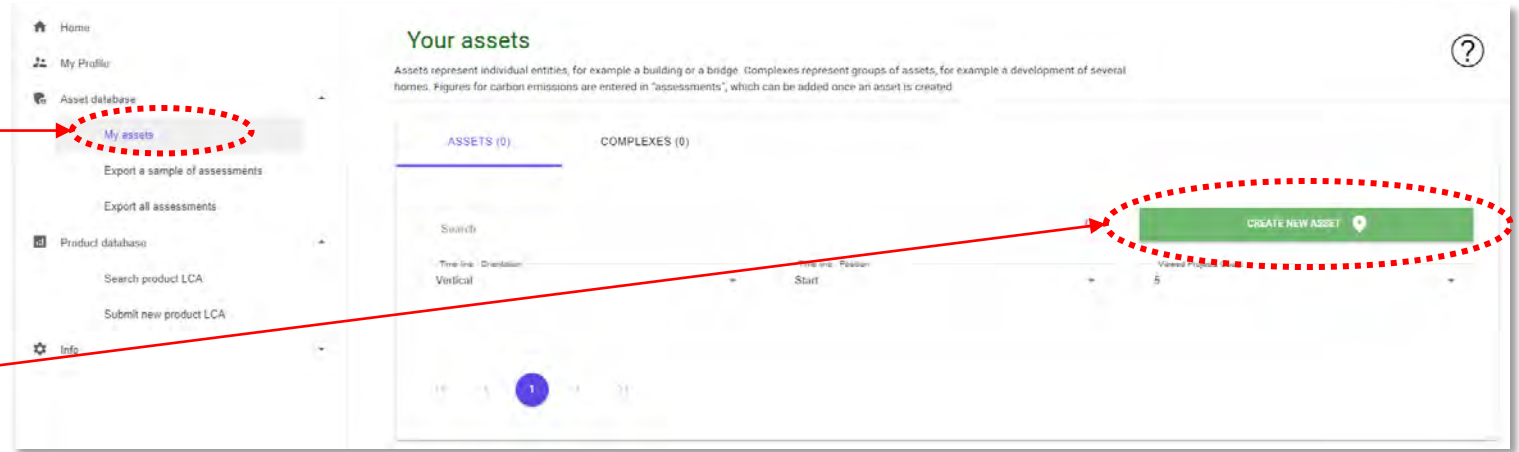
This structure enables entering new Assessments for the same Asset as its lifecycle progresses, and tracking changes in design, materials and carbon across different Assessments.



Asset database – Creating a new Asset

To create a new Asset, click on “My assets” on the left menu panel. This will open a list of all your existing Assets.

Click on “Create new asset” to open the page with the Asset information.

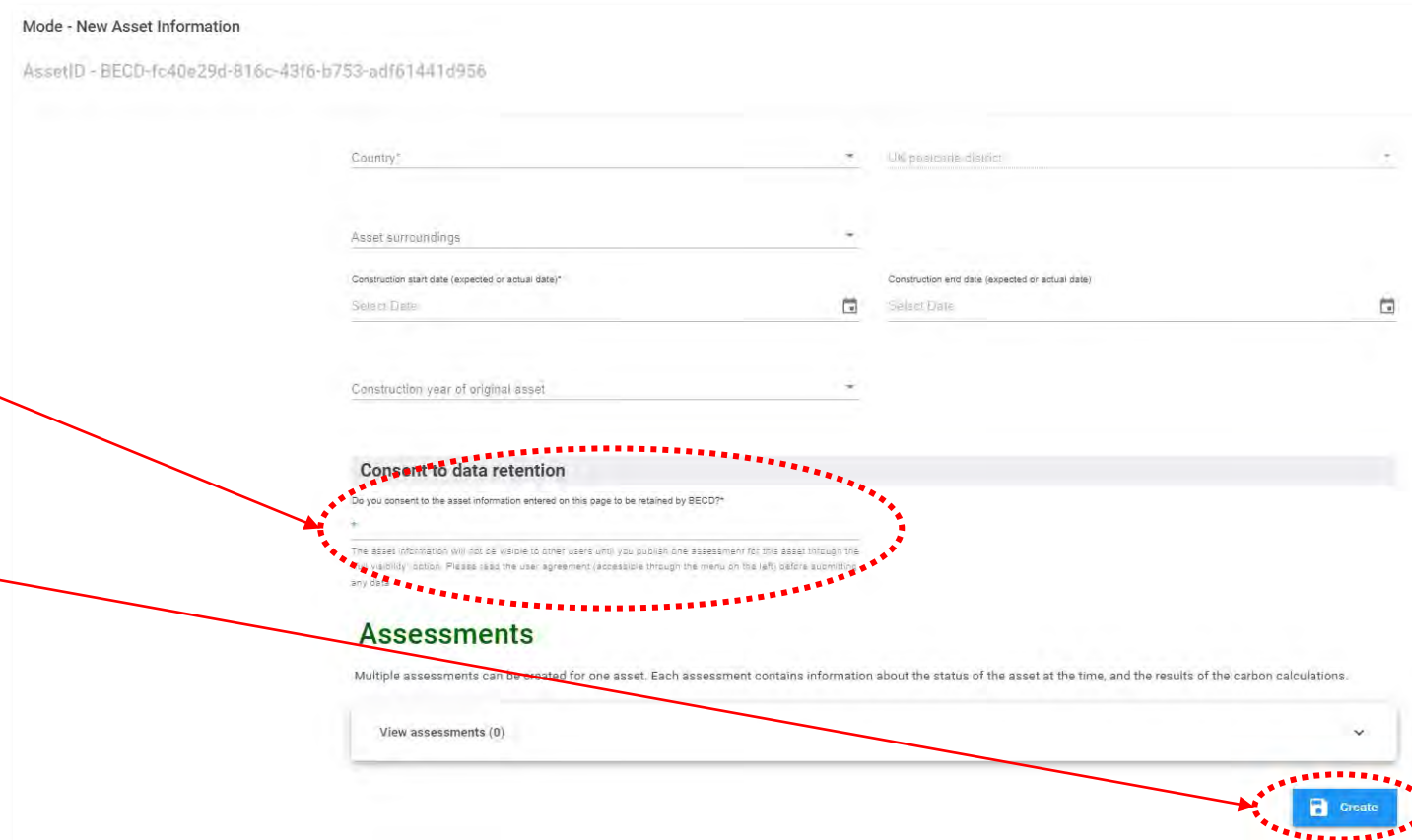


This page mainly contains information related to the Asset and that are not expected to change through the its lifecycle. Only fields marked with an asterisk are mandatory.

Make sure you select “Yes” in the drop-down menu under “Consent to data retention”.

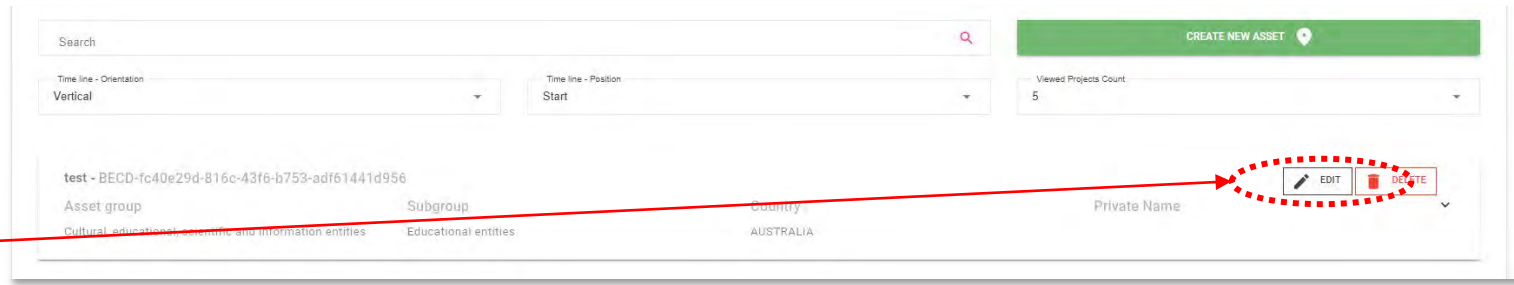
Once you have entered the information, click on the “Create” button to create the Asset. You need to create an Asset before you can create its first Assessment.

A new Asset’s information can be edited until it is published, which happens when the first Assessment of that Asset is published.

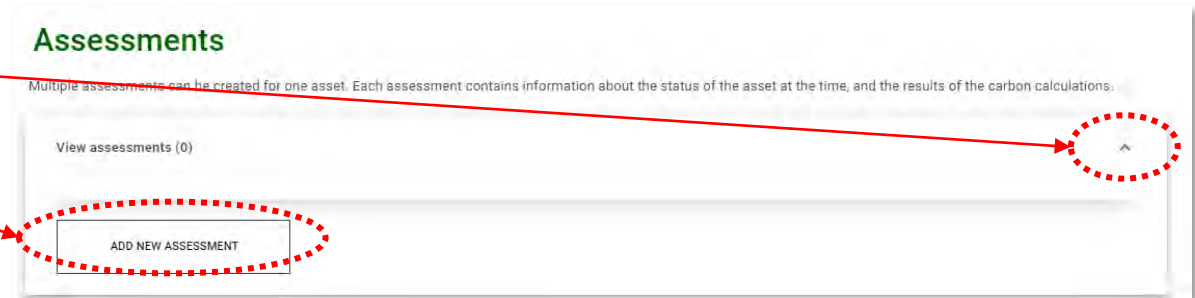


Asset database – Creating a new Assessment

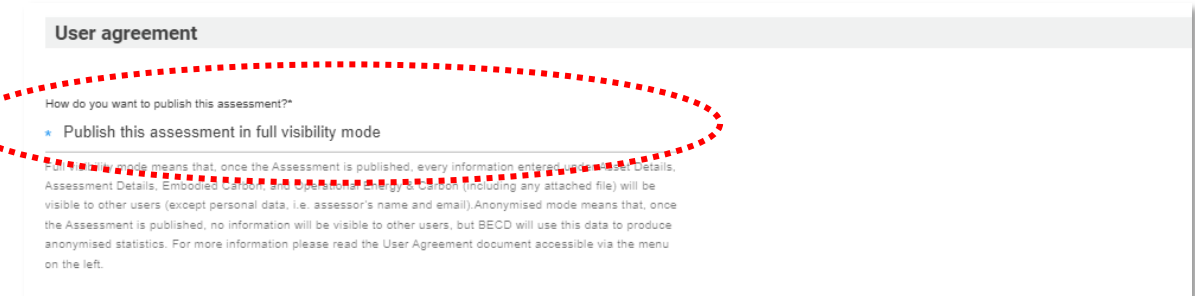
To add a new Assessment to an existing Asset, find the Asset in your Assets list and click on the “Edit” button. This will open the Asset information page.



Scroll to the bottom of the page and click on the arrow on the left of “Assessments” to expand the panel. Here all the Assessments of this Asset are listed. Click on the button to create a new one. This will open the Assessment information page.

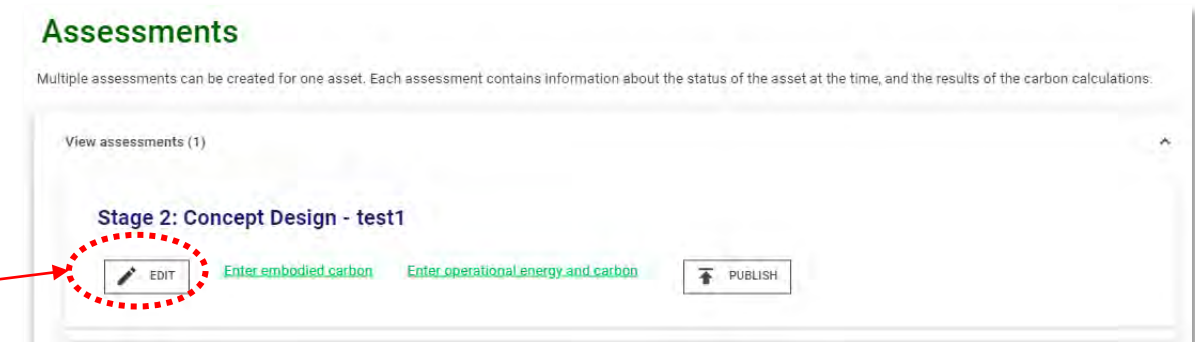


This page contains information about the both Asset and Assessment, and may change when a new Assessment is carried out. Only fields marked with an asterisk are mandatory.



Make sure you select your preferred option under “User agreement”. For a description of the available options, see the later section “Publishing an Assessment” in this guide.

Click on the blue button at the bottom of the page to create the Assessment. Until the Assessment is published, you will be able to return to this page to edit your choices and/or add attachments by clicking on the “Edit” button.



Asset database – Entering embodied carbon information

To open the Embodied Carbon page, click on the “Enter embodied carbon” button under the Assessment name.

You need to unlock the page by selecting “Yes” in the first drop-down menu. You will then be able to expand a panel that contains information about scope, methodology and units. Click on the “Update” button to save this information.

Emissions are entered in the reporting table, where figures are broken down by lifecycle module (columns) and building element (rows). This reflects the reporting structure set out in the [first edition \(2017\) of the RICS Professional Standard](#) on Whole Life Carbon.

An extra row has been added, named “whole asset”, to be used to enter embodied emissions aggregated at the Asset level only when a breakdown by building element is not available.

To enter emissions manually, unlock the relative building element row by selecting “Yes” in the relative drop-down menu, and click on the “Edit emissions” button.

To enter emissions via template spreadsheet, follow the instructions above the reporting table.

Once you have finished, use the button at the bottom of the page to go back to the Asset information page.

Assessments

Multiple assessments can be created for one asset. Each assessment contains information about the status of the asset at the time, and the results of the carbon calculations.

View assessments (1)

Stage 2: Concept Design - test1

EDIT

Enter embodied carbon

Enter operational energy and carbon

PUBLISH

Do you want to unlock this page to enter embodied carbon information?

Yes

Details of the embodied carbon assessment

CODE	ASSET ELEMENT	EMISSIONS INCLUDED?	ACTIONS	COVERAGE (%)	TOTAL BIOGENIC CARBON	A1 TO A3	A4	A5	B1
	Whole asset	Yes	EDIT EMISSIONS						
0.1	Demolition prior to construction (0.1 Toxic/Hazardous/Contaminated Material Treatment; 0.2 Major Demolition Works)	No	EDIT EMISSIONS						
0.2	Facilitating works (0.3 Temporary Support to Adjacent Structures; 0.4 Specialist Ground Works; 0.5 Temporary Diversion Works; 0.6 Extraordinary Site Investigation)	Yes	EDIT EMISSIONS						

Do you want to unlock this page to enter embodied carbon information?

Yes

Details of the embodied carbon assessment

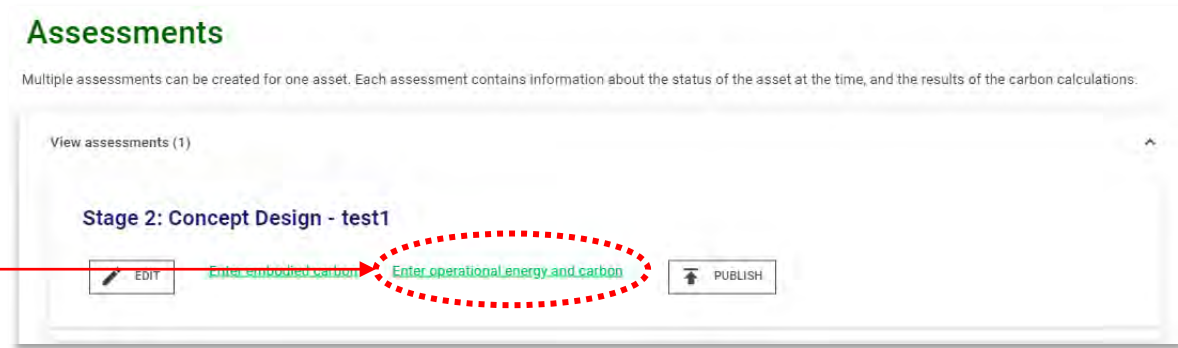
Use the RICS template

You can auto-complete this table by uploading an Excel template file. Simply download the file through the link above, populate it with the embodied carbon figures, and upload it through the button on the right. Please make sure emissions are entered in the correct units.

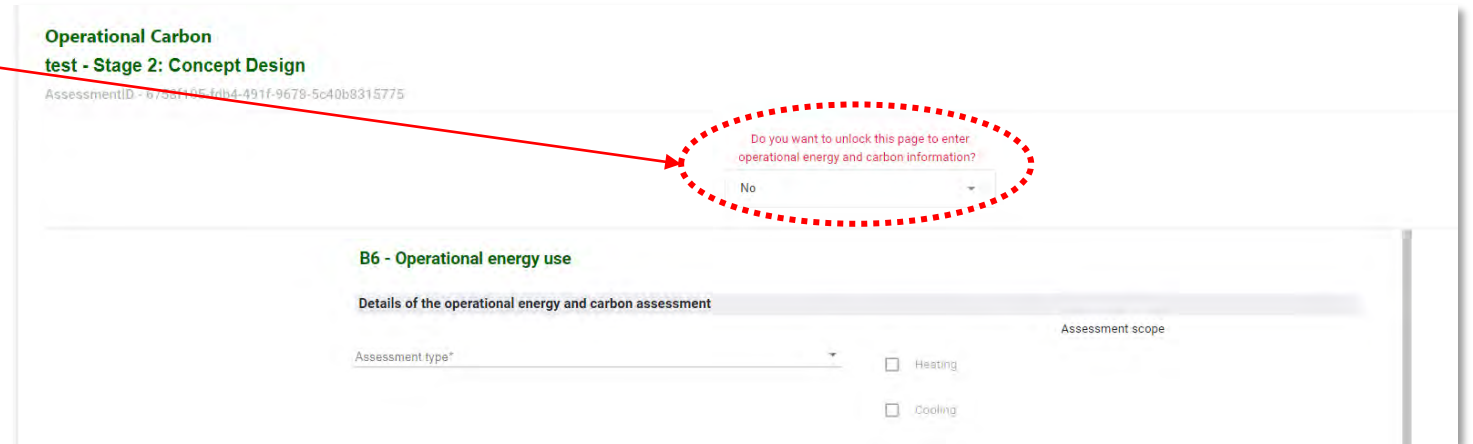
Choose File No file chosen

Asset database – Entering operational carbon information

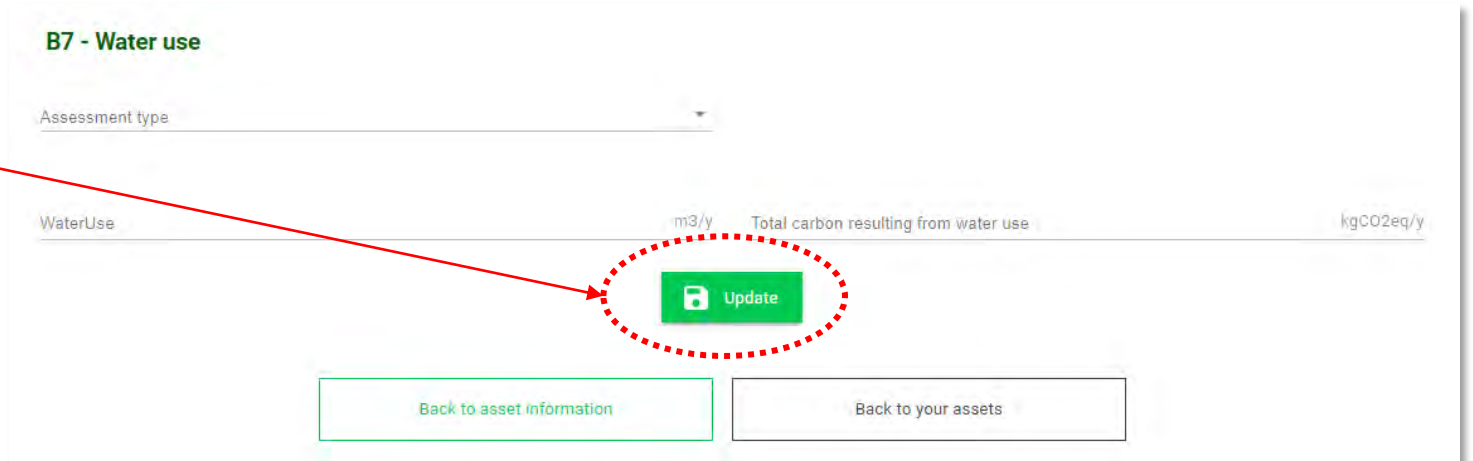
To open the Operational Energy and Carbon page, click on the “Enter operational energy and carbon” button under the Assessment name.



You need to unlock the page by selecting “Yes” in the first drop-down menu. This will allow you to edit the fields in this page.



Once you have finished entering the information, click on the “Update” button to save, and use the button at the bottom of the page to go back to the Asset information page.



Asset database – Important data points

Asset information

The 'Asset name' field will be visible to other users if you choose to publish any Assessment under this Asset in 'full visibility' mode. If you want to publish in 'full visibility' but do not want other users to easily identify your Asset, you can enter a generic name here, e.g. 'office 1'.

The 'Private name' field will be visible only to you, so you can enter the actual name/address of the Asset.

If you have previously created a Complex, you can attribute this Asset to that Complex through this field.

BECD classifies Asset type through the UniClass Entities tables. Please see the [UniClass website](#) for more guidance.

If you select the UK as location of the Asset, you will be required to enter the first part of the post code. If you do not want to disclose this information, or the Asset does not have a specific location, select 'unknown'.

Asset Details

Asset name* test

Asset Code BECD-95abc688-30b0-431a-9523-8b15d655fc29

Single/mixed use* Single use

Private name

Asset UPRN (unique property reference number)

Is this asset part of one of your complexes?

Asset type

UniClass Group* Administrative, commercial and protective service entities

UniClass Subgroup* Legislative entities

UniClass Section

Location and chronology

Country* UK - UNITED KINGDOM

UK postcode district

Asset surroundings

Construction start date (expected or actual date)* 2022

Construction year of original asset

Start typing to narrow the selection. If you do not wish to disclose the location of the asset, select "unknown"

_Unknown

AB1

AB2

AB3

AB4

AB5

AB9

Asset database – Important data points

Assessment information

The Assessment information page contains three tabs.

'Project sizing' includes fields such as cost, gross floor area, number of storeys, etc.

The screenshot shows the 'PROJECT SIZING' tab selected. It contains two main sections: 'Project cost' and 'Project dimensions'. The 'Project cost' section has a field for 'Project cost' with the value '0.00' and a currency symbol '£', and a dropdown menu for 'Is this cost estimated or actual?'. The 'Project dimensions' section has a field for 'Overall Gross Internal Area (GIA)' with the value '50' and a unit '(m²)', and a field for 'number of Workstations' with the value '0'. There are also links for 'Primary entity size info' and 'Secondary entity size (based on secondary normalisation unit, when applicable)'.

'Technologies' includes fields such as foundation type, heating service type, etc. Several fields in this tab are mandatory.

The screenshot shows the 'TECHNOLOGIES' tab selected. It contains a section titled 'Structure and cladding' with three rows of fields. Each row has a 'Primary' field and a 'Secondary' field. The 'Primary' fields are: 'Foundation type - Primary*', 'Ground floor type - Primary*', and 'Vertical structural element - Primary*'. The 'Secondary' fields are: 'Foundation type - Secondary', 'Ground floor type - Secondary', and 'Vertical structural element - Secondary'. All fields currently show 'Not applicable' and have an 'x' icon to clear the value.

The 'Retrofit works' tab becomes active only if you select a relevant field under 'Project type'.

Asset database – Publishing an Assessment

To publish an Assessment, click on the “Publish” button under the Assessment name.

“Publishing an Assessment” means that all the information associated with that Assessment (and the relative Asset) becomes part of the BECD sample.

- If you have chosen to publish the Assessment in “full visibility mode”, all the information associated with the Assessment (except personal names and email addresses) will be accessible to other BECD users through the export file.
- If you have chosen to publish the Assessment in “anonymised mode”, all the information associated with the Assessment will be accessible only to the BECD admin staff.

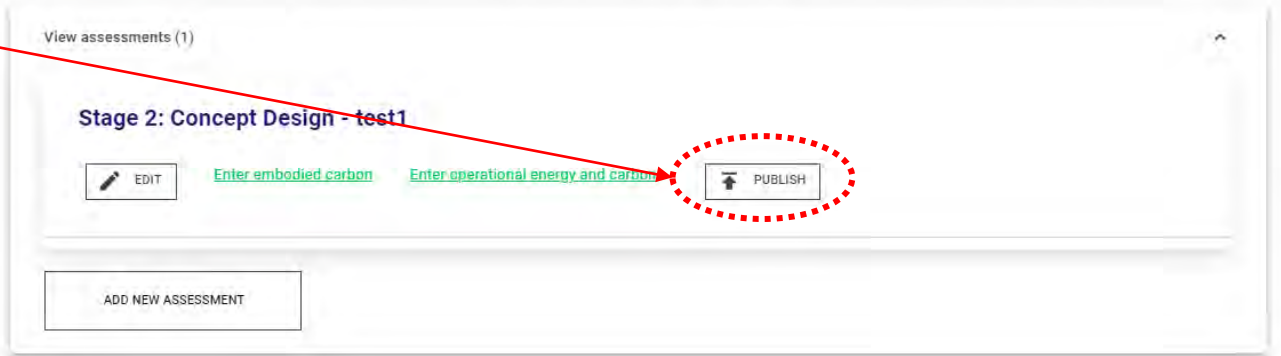
For more information about the publishing modes, please read the [BECD user agreement](#).

Once an Assessment is published, its information (and that of the relative Asset) is locked and cannot be edited directly by the user. Thus, you should publish an Assessment only when you are confident that all the relevant information has been entered correctly.

If you need to edit a published Assessment, click on the “Contact admin” button. This will open a panel where you can send a request to the BECD admin. If the reason to edit published information is justified, the BECD admin will bring that Assessment back to the unpublished status.

Assessments

Multiple assessments can be created for one asset. Each assessment contains information about the status of the asset at the time, and the results of the carbon calculations.



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Asset database – Exporting a sample of Assets

To create and download a file containing all the information entered about Assessments published in “full visibility mode”, select either one of the “export” options on the left side menu.

The “export a sample of assessments” option opens a page where you can see a list of the published Assessments. You can search and filter the list to narrow down the sample. By clicking on the “Export selected” button, you will download a CSV file containing all the selected Assessments and a ZIP file containing any file that’s been attached to those Assessments.

Home

My Profile

Asset database

My assets

Export a sample of assessments

Export all assessments

Product database

Search product LCA

Submit new product LCA

Info

Select a sample of the assessments published in “full visibility” mode to export into a CSV file

These are assessments that have been published by you and other BECD users in the “full visibility” mode, meaning that all data entered is visible (except name and email of the assessor). Assessments published in “anonymised” mode will not be included in this download. By downloading these files, you agree to the use of this data for the purposes described in the BECD user agreement, accessible [here](#).

Assessment Details

	Asset Name	Published Date	Asset Group	Asset SubGroup	Country	PostCode	Assessment Name	Assessment Stage
<input checked="" type="checkbox"/>	prod test 2	7/7/2023 3:43:17 PM	Cultural, educational, scientific and information entities	Educational entities	CUBA		asm test 2	Stage 2 Cancel
<input checked="" type="checkbox"/>	test1	9/30/2023 5:33:05 PM	Cultural, educational, scientific and information entities	Educational entities	AUSTRALIA		test1	Stage 2 Cancel
<input checked="" type="checkbox"/>	prod test1	6/28/2023 1:24:55 PM	Administrative, commercial and protective service entities	Administrative office entities	UNITED KINGDOM	E14	asm prod test	Stage 1: Prepara Briefing

Rows per page: 10 1-3 of 3

Export Selected ↓

The “export all assessments” options opens a page where you can download a CSV file containing all Assessments in the BECD sample, with an option to download a ZIP file containing any file that’s been attached to those Assessments.

Home

My Profile

Asset database

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Export a sample of assessments

Export all assessments

Product database

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Export all the assessments published in “full visibility” mode into a CSV file

These are assessments that have been published by you and other BECD users in the “full visibility” mode, meaning that all data entered is visible (except name and email of the assessor). Assessments published in “anonymised” mode will not be included in this download. By downloading these files, you agree to the use of this data for the purposes described in the BECD user agreement, accessible [here](#).

Export all assessments

Include a zip file containing all the attachments

Show Events

Export Data

Visit the [BECD user guide page](#) to access a description of the data fields contained in the CSV files.

Product database – Searching LCA datasets

Use the left side menu to access the list of LCA datasets contained in the Product section of BECD.

You can narrow down this list through keywords and filters.

Search product LCA dataset

Filters:

- Dataset type
- Dataset subtype
- Product location
- Reference year
- Start year
- End year
- Valid until
- Start year

Dataset type	Dataset name ↑	Dataset subtype
EPD	ABT Skanska Grön AsfaltBio Zero. Gällivare, Luleå, Umeå, Sundsvall, Borlänge och Södertälje asfaltverk.	Specific EPD
EPD	Leca® Letklinker 10-20; Hinge	Specific EPD
EPD	Leca® Murblock, Leca® Subblock, Leca® Block and Leca® Balkblock, Benders Sweden	Specific EPD
EPD	Massiv betongelement - Vegg, lavkarbonbetong	Specific EPD
EPD	weber muremartel KC 50/50/700 bakke 0-4 mm	Specific EPD
EPD	weberbase 130 lättbetongputs B	Specific EPD

Use the side bar at the bottom to scroll to the right of the main list to see all the available information about the LCA records and the links to their source.

ensioning Anchor System	Celsa Steel UK	2021
ensioning Anchor System	CCL International	2021

Rows per page: 20 1-20 of 14388

Clicking on the name of a dataset will show additional information (if available) below the main list.

Filters:

- Dataset type
- Dataset subtype
- Product location
- Reference year
- Start year
- End year
- Valid until
- Start year

Product location	Reference year	Valid until	Data location	Access	Original dataset UID	Link to source
SE	2021	2026	ECO Portal	Free	58871b96-bcdf-4438-b82f-d100c1df1fe5	Go to source...
DK	2020	2025	ECO Portal	Free	06f4050b-c80c-4920-978f-9d588f8ce12c	Go to source...
SE	2022	2027	ECO Portal	Free	f67cf9cc-0f6e-4f45-b61a-fe09b2f80622	Go to source...
NO	2022	2027	ECO Portal	Free	171d9a9e-3395-41d9-976f-1504153c20c9	Go to source...
DK	2022	2027	ECO Portal	Free	95233b2b-5b21-4868-a508-e2813bd4c78c	Go to source...

Product database – Submitting a new LCA dataset

Use this page to submit a new LCA dataset to the Product section of BECD. The new dataset must refer to an LCA for which there is available documentation online.

Before submitting a new record, please check that your product LCA is not already represented in BECD.

Once you have completed this page, a request will be sent to the BECD admin staff, who will verify that the information was entered correctly and that a valid URL to the LCA documentation was provided.

The screenshot shows a web interface for submitting a new product LCA dataset. On the left is a navigation sidebar with options: Home, My Profile, Asset database (with sub-options: My assets, Export a sample of assessments, Export all assessments), Product database (with sub-options: Search product LCA, Submit new product LCA), and Info. The main content area is titled 'Submit new product LCA dataset.' and includes a note: 'Enter the information for your product LCA dataset here. Fields marked with an asterisk are mandatory. Once you submit, the BECD admin will check the information before approving the new dataset and will contact you via email in case more information is needed.'

The form is divided into several sections:

- Dataset information:** Includes fields for Dataset name*, Dataset type*, Dataset sub-type*, Product reason*, Reference year (with a calendar icon), Valid Until (with a calendar icon), Version, Original dataset UID, Data location*, User*, and Registration Number*.
- LCA details:** Includes Functional unit - Quantity*, Functional unit - Unit of measurement*, Source Notes, LCA methodology report, Data source, Type of review, and Compliance system name.
- Methodology selection:** Four radio buttons are provided: GWP Fossil (A1-A3, in kgCO2eq), GWP Biogenic (A1-A3, in kgCO2eq), GWP LULUC (A1-A3, in kgCO2eq), and GWP total (A1-A3, in kgCO2eq).



Built Environment Carbon Database

www.becd.co.uk

Thank you for using BECD!

For more guidance, please see the video tutorials and frequently asked questions on the [BECD user guide page](#)

For technical support, please email becd-support@becd.co.uk

