A guide to using the ‘Decarbonising Construction Landscape Map’

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This guide has been produced to help users to understand how to navigate the landscape map and find information that is useful or relevant to them.

Please read the Map Overview and Map Description for more information about the content of the landscape map and how it has been generated.
The project overview gives a brief introduction to the landscape map, highlighting the purpose behind creating it. Please note the information about copyright licence.
The challenge of decarbonising construction is being addressed in a variety of ways by many organisations. This landscape map is a visual representation of many of the groups, institutions and initiatives that are active in the transitioning the construction industry to net zero. The purpose of this map is to provide an overview of activities and direct users to organisations or information that may be useful in their own learning or journey to decarbonising construction.

For this map, ‘construction’ includes the full spectrum of buildings and infrastructure across the lifecycle of the project, from strategic planning to end-of-life, including assessment of existing assets and refurbishment/retrofit. Some organisations on this map address very specific aspects, such as operational energy in buildings, or domestic retrofit, whilst others address a range of aspects. To explore the topics/themes that constitute decarbonising construction, have a look at this mindmap and read this article.
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This is the description of the landscape map, including information about the process behind generating the map and how to give comments or feedback.

This is only visible when no elements on the map are selected – click on blank space to activate.

Click on these three dots to show/hide the map description.
This is the visualisation of the organisations included on the landscape map. Each coloured circle is an element and represents an organization according to the legend.

By default, these are grouped according to organization type. Relevant sub-groups/workstreams are shown connected to the main organization.
These buttons allow you to customize which elements and connections to display on the map.
Use these buttons to zoom out, zoom in, or ‘zoom to fit’ (that will fit the selected contents to the screen)
To see detailed information about a specific element, click on the element and then the three dots to show the ‘Element overview’
The Institution of Civil Engineers (ICE) is a professional membership body for civil engineers. “We help the industry learn and share our knowledge, so we can maintain the natural and built environment. We also promote the essential contribution that civil engineers make to society worldwide.” (source)

**Brief Description of work related to carbon**

The ICE has set up the Carbon Project: Towards Net Zero for Infrastructure to galvanise action around net zero. This has three workstreams (Measurement; Capability building; Systems-level reductions) and produces resources such as blogposts and papers.

**Element name**

**Element type**

**Overview of the organization and work relating to decarbonising construction**

**Tags**

Additional information fields, such as acronym, website, links to knowledge databases, or publication type depending on element type.
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As far as possible, links to original source information and other relevant information have been included to allow for users to investigate further.
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Use this button to ‘focus’ on a specific element. The ‘focus’ feature can be used to show the selected element only.
The arrows above and below the focus button can be used to expand or contract the focus, showing elements connected to the selected element.

Clear the focus to return to the full map view.
Buttons along the top can be used to change which elements and connections are shown on the map, and the way the elements are grouped.

Show/Hide reports: toggle to display the reports that have been included on the landscape map and are linked to organisations shown. This is not a comprehensive library of all publications by all the organisations, just a selection of relevant reports/publications.
Show/Hide affiliate connections: will display the secondary links between organisations, groups, and/or reports. These could illustrate partnership relationships, support for work conducted or other relationships.
Connect by tags (incl./excl. reports): instead of showing the elements connected by their type and relationship to each other, show the elements connected by tag, or topics within the decarbonising construction.
‘Tags’ have been added to elements to help find relevant information depending on what aspect users may be interested in. There are several ways that the tags can be used.

From the main map view, select an element, and bring up the ‘Element overview’. Select which tag you are interested in, then click the focus button.
This will show all elements that have the selected tag. In this case, 25 elements have the tag ‘Infrastructure’.

Connections between elements are not visible in this view. Clear the focus to return to the full map view.
From the main map view, there is a drop-down menu that allows one to select the tags that you are interested in. You can select as many or few as desired. This will show all elements that have the selected tag(s).
Again, this will show all elements that have the selected tag. In this case, 25 elements have the tag ‘Infrastructure’.

Select as many tags to view as desired.

To return to the full map view, go back to the drop-down menu and click ‘Select all/none’. Make sure that **none** of the tags are selected to ensure that all connections become visible again.
Using ‘tags’, to navigate the map

**OPTION 3**

Another way to use tags:

From the main map view, use the view toggle buttons to connect elements by tags instead of by relationships.
Elements are now connected by their ‘tags’, allowing you to see other organisations and/or reports working on similar topics.
To allow for exploration of publications and reports on decarbonising construction, a separate ‘map view’ has been created that shows only the reports and publications that are included on the landscape map (organisations are hidden).
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For this map, ‘construction’ includes the full spectrum of buildings and infrastructure across the lifecycle of the project, from strategic planning to end-of-life, including assessment of existing assets and refurbishment/retrofit. Some organisations on this map address very specific aspects, such as operational energy in buildings, or domestic retrofit, whilst others address a range of aspects. To explore the topics/themes that constitute decarbonising construction, have a look at this mindmap and read this article.

Please note the following:

- The primary focus is on carbon reduction and climate change mitigation in the built environment and does not include other aspects of sustainability in the built environment, such as nature based solutions, biodiversity, health and well-being, community and so
This will display the ‘Reports’ view of the map. Each coloured circle represents a report or publication with the type coloured according to the legend.
The default view shows reports connected by tags – all reports (small coloured circle) with a particular tag are connected to an element named with that tag (large grey circle).
Use the focus feature to explore specific subjects and see the relationships to other topics/tags.
The challenge of decarbonising construction is being addressed in a variety of ways by many organisations. This landscape map is a visual representation of many of the groups, initiatives, and initiatives that are actively working to decarbonise the construction industry. The map provides an overview of active projects, organisations, or information, or a learning or journey to decarbonising construction.

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The reports can also be connected by the type of document or publication using the buttons along the top.
For more information, please contact the Laing O’Rourke Centre:
comms@construction.cam.ac.uk