Release notes

May 2023

Release highlights

BUILDING & INFRA LCA

- ✓ **Level(s) LCA tool with EN15804 +A2 EPDs** `new`
- ✓ **Level(s) Carbon tool with EN15804 +A2 EPDs** `new`
- ✓ **New RICS, GLA & Green Mark tool with EN15804 +A2 EPDs** `new`
- ✓ **New ISCA infrastructure tool for Australia** `new`
- ✓ New detailed report for Building Circularity, GLA

PRODUCT LCA & EPD SOFTWARE

- ✓ Improvements to Ecoinvent 3.8 data quality
- ✓ Reconfigured biogenic carbon balancing feature
- ✓ Private constructions with Ecoinvent 3.8 data

EARLY DESIGN & ECODESIGN

- ✓ Additional CLT & Glulam wooden structural frames for MENA region in Carbon Designer 3D

GENERAL IMPROVEMENTS

- ✓ Drag and drop projects into folders
- ✓ Easily unarchive projects

`new` = Completely new tool or major feature

One Click **LCA**

Building & Infrastructure LCA

New Level(s) LCA tool with EN15804 +A2 EPDs

Level(s) Life Cycle Assessment (LCA) tool with results for key environmental impact categories of EN 15804:2019+A2 standard is now available. This calculation tool supports only EPDs compliant with the +A2 amendment.

This tool will be automatically added to all licenses with the previous version of Level(s) Life Cycle Assessment tool. If you are interested in adding the tool to your subscription, please contact sales@oneclicklca.com

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New Level(s) Carbon tool with EN15804 +A2 EPDs

New version of the Level(s) Life Cycle Carbon tool is now available. This calculation tool enables whole life carbon (Global warming potential results only) calculations using EPDs according to both +A1 and +A2 amendments of the EN 15804 standard.

For the EPDs with results according to both amendments of the standard, the GWP categories of +A2 amendment will be prioritized. This may cause difference in the results of certain material resources compared to the previous version of the calculation tool.

This new tool is automatically added to all licenses with the previous version of Level(s) Life Cycle Carbon calculation tool. If you are interested in adding the tool to your subscription, please contact sales@oneclicklca.com

New RICS, GLA & Green Mark tool with EN15804 +A2 EPDs

A new version of RICS/GLA/Green Mark tool is now available, supporting EPDs according to EN 15804:2012 +A2:2019 standard. This calculation tool utilizes GWP-fossil impact category from the newly supported EPDs in addition to the EPDs according to the older amendment of the EN 15804 standard (+A1:2013).

For the EPDs with results according to both amendments of the standard, GWP-fossil will be prioritized. This may cause slight difference in the impacts of certain material resources compared to the previous version of the calculation tool.

This new calculation tool is available in all license levels for the UK and can be enabled to any existing or newly created project.

New ISCA infrastructure tool for Australia

New infrastructure LCA tool compliant with requirements set by the Infrastructure Sustainability Council of Australia (ISCA).

A new infrastructure LCA calculation tool for Infrastructure Sustainability Rating Scheme for Australia is now available. The scope of the tool consists of life cycle stages A1-A5 and B2-B4. This tool allows using of the generic database as defined in IS Materials calculator versions 2.0.10 and up as well as EPDs from the program operators part of ECO Platform. The results are provided in midpoint LCA indicators as well as in IS EnviroPoints v2.

This calculation tool is currently in the process of being evaluated for approval by Infrastructure Sustainability Council Australia (ISCA). Once approved, it can be used to achieve the credit Rso-6 (ISv2.0 or ISv2.1) and Mat-1 (ISv1.2).

If you are interested in adding the tool to your subscription or wish to enquire about ISCA approval status, please contact sales@oneclicklca.com

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New detailed report for Building Circularity, GLA

An updated version of the Material efficiency report for Building Circularity, Greater London Authority (GLA) is now available. This report will improve compatibility with the Circular Economy reporting template of the GLA calculation scheme.

In addition to the visual improvements, this version of the report includes subtotals for the circularity indicators of materials used in the calculation for each RICS classification and material type within them.

The new report is available in the results page of the calculation tool and is downloadable in Excel format.

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New data to help you calculate more accurately

We have created and updated lots of generic data:

✓ **36** new insulation resources: cellular glass, EPS & XPS

✓ New generic resource for diesel fuel.

✓ New generic profiles for "**C1 De-construction/demolition stage**", including separate profiles for buildings with concrete, steel. wooden and mixed frame.

✓ New construction site scenarios: "**Average construction site impacts, scenario for temperate and southern climate, EU**", "**Average construction site impacts, scenario for temperate and southern climate with biodiesel as primary fuel, EU**" and "**Average construction site impacts, scenario for temperate and southern climate, world**". Note: the old scenarios for **Tropical and Moderate (South / North)** climates have been deactivated.

You can find full details about updates to generic data in our Help Centre.

We have also added around **400** industry datapoints (EPDs) and updated another **100**. Details in Help Centre.

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Green materials benchmarks now available in plugin for Autodesk Revit

Links to the green material benchmarks have been added to the data cards of the resources in the One Click LCA plugin for Autodesk Revit.

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Early design & Ecodesign

Additional CLT & Glulam wooden structural frames for Middle East & North Africa region in Carbon Designer 3D

You now have more options when creating early building designs for the Middle East & North Africa region with Carbon Designer 3D using load-bearing structural frames based on Cross-Laminated Timber (CLT) or Glulam.

These frames are automatically available to all users with a subscription for the Carbon Designer 3D add-on. Please contact sales@oneclicklca.com to activate your subscription.

Product LCA & EPD Software

Improvements to Ecoinvent 3.8 data quality

We have improved the quality of Ecoinvent 3.8 data in our EPD generator tools with regards to GWP-biogenic and impact categories declaring use of energy.

For GWP-biogenic, we have removed biogenic CO2 emissions not related to the product biogenic carbon content itself. This means that the indicator now reports only the biogenic CO2 included in the product carbon content and other GHGs affecting the impact category (CO, CH4, etc).

For energy use, we have made a number of modifications:

✓ For treatment datasets, the primary energy use as raw material (both non-renewable (PENRM) and renewable (PERM)) values that are not zero were set to zero.

✓ For secondary materials, total primary energy use (non-renewable (PENRT) and renewable (PERT)) values were previously underestimated since the values of primary energy use as raw material values (PENRM & PERM) were not included. They were corrected by adding PERM & PENRM values to PERT and PENRT, respectively, and the results were recalculated. This procedure also corrects the negative primary energy use as energy values (renewable (PERE) and non-renewable (PENRE).

✓ For datasets with negative PENRE values due to lower economic allocation, such as natural gas and lignite, we have adopted recalculated and corrected PENRE values from Ecoinvent version 3.9. A similar approach has been extended to other datasets such as coal and peat, where 5% of PENRM values for mining, and 10% of PENRM values for market datasets including transportation were assumed for PENRE values.

✓ To ensure modelling consistency, PENRT values were assumed equal to ADPf (Abiotic Depletion Potential of fossil fuel) where the difference between them could be more than 0.1% except in datasets where this assumption could distort innate material energy (or lower heating calorific value of the product).

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Reconfigured biogenic carbon balancing feature

Balancing feature renamed as "Biogenic carbon balancing" with energy balancing removed.

To better satisfy the requirements of different LCA modelling methods relevant for different products, energy balancing has been removed from the balancing feature and it has been renamed "**Biogenic carbon balancing**". This means that the feature no longer applies any balancing to the energy as material impact categories.

Energy balancing will be re-introduced as a feature of its own in the future.

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Private constructions with Ecoinvent 3.8 data

You can now easily create private constructions with Ecoinvent 3.8 data.

One Click LCA supports organization-level private assemblies called private constructions. Such assemblies are created and managed by your organization, and can only be accessed by users from your organization to add them to calculation projects. Once an assembly is added to a project, it's visible to any party who has been given rights to access and use the same project.

You can read more about private constructions in our Help Centre.

Note: to create private constructions, you will need a subscription to our Expert license. If you are interested in adding this functionality to your subscription, please contact sales@oneclicklca.com

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General Improvements

General usability improvements

You can now easily unarchive your projects by yourself. Note: you must be a manager of the project in question to unarchive it.

You can now easily drag and drop your projects into folders on the main page to keep better track of them. Note: to create folders, you will need a subscription to our Expert license. If you are interested in adding this functionality to your subscription, please contact sales@oneclicklca.com

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