



# Release notes October 2023



# Release highlights

## BUILDING & INFRA LCA

- ✓ New Germany DGNB 2023 compliance tool **new**
- ✓ MEP Carbon Tool to decarbonize MEP systems
- ✓ Carbon Heroes Benchmarks now display results for average & 70th percentile projects
- ✓ Cubic Yard as unit for construction groups in Life Cycle Carbon - North America tool

## EARLY DESIGN & ECODESIGN

- ✓ Data centre buildings in Carbon Designer 3D **new**
- ✓ Faster design creation in Carbon Designer 3D

## GENERAL IMPROVEMENTS

- ✓ New User Manager role to manage company users for enterprise customers

## PRODUCT LCA & EPD SOFTWARE

- ✓ New Luminaires EPD Generator for easy & cost-efficient light fixture EPDs at scale **new**
- ✓ New EPD Generator for French regulations with results per Functional Unit (FU) **new**
- ✓ LCA Commons LCI data for North America available in all EPD generators (BETA) **new**
- ✓ Create EPDs in German language with EPD Generator for EPD Hub
- ✓ Create private EPD in all EPD generators
- ✓ Usability improvements in Concrete EPD Generator

**new** = Completely new tool or major feature



# Building & Infrastructure LCA

# New tool available for DGNB 2023



New building LCA tool for Germany compliant with requirements set by DGNB 2023 is now available.



A new building LCA calculation tool for DGNB 2023 in Germany is now available and you can use it for the ENV1.1 credit for indicators 2.2, 2.5 and 3.1 in the DGNB scheme.

As a planning and optimisation tool for assessing sustainable buildings and districts, the DGNB System seeks to increase real sustainability in construction projects. DGNB 2023 is a further development of the 2018 version with many updates. In pursuit of greater climate protection, Klima+ bonuses introduced in 2022 are converted into regular points with more focus on the GWP Global Warming Potential. E.g. the ENV1.1 credit for disclosure of LCA, which is achievable with this new tool by One Click LCA, puts higher focus on GWP. In addition, e.g. requirements for future climate targets have been sharpened and compatibility with both QNG quality label and EU Taxonomy has been considered. Read more on the [DGNB website](#).

This tool is automatically added to all building LCA licenses in Germany. If you are interested in adding the tool to your subscription or wish to enquire about the DGNB 2023 tool, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

# MEP Carbon Tool to decarbonize MEP systems

Overall building decarbonization requires MEP but direct MEP impacts are high. Carbon from MEP can be 50% of retrofit and a 25% of new commercial building whole life carbon. Yet MEP systems are essential for reducing operational carbon emissions. **Not considering MEP means neglecting your climate strategy.**

MEP impacts come from manufacturing and system installation, replacement over the building lifetime, energy consumption, HVAC refrigerant leakages.

## The MEP Carbon Tool provides data & solutions to decarbonise MEP systems

Modelling MEP requires completely different data and scope than traditional whole building LCA, which often only considers structure and enclosure. The MEP Carbon Tool provides an easy to use and comprehensive solution for MEP carbon accounting and optimisation. Key features & updates include:

- ✓ Ready to go, high-level MEP assemblies (e.g. electrification per m2 for offices)
- ✓ Generic product-level MEP datasets for when supplier is not yet chosen
- ✓ Manufacturer specific MEP product EPDs & TM65 data
- ✓ Datasets for refrigerants, operating energy, water & end of life impacts
- ✓ Database is constantly updated with new EPDs & other relevant data
- ✓ You can also add any of your private data to the system (Expert license)
- ✓ Compatible with other building LCA tools for regulatory or certification LCAs

Read more in [Help Centre](#). This tool is available as stand-alone and add-on. If you are interested in the tool, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

### MEP designer / consultant benefits

- ✓ **Differentiate.** Capability to tackle MEP climate impact holistically positions you as a leader in sustainable MEP solution design.
- ✓ **New services.** Clients building data centres, offices, cool warehouses and brown to green retrofits will need design decarbonization & specification services when they realise carbon impacts of MEP.
- ✓ **Win low carbon jobs.** With whole life carbon capability, you can win more demanding jobs by differentiating in bids against traditional energy simulation alone.

# Carbon Heroes Benchmarks now display results for average & 70th percentile projects

**Carbon Heroes Benchmarks now display results for average and 70th percentile projects.**

To help you better understand the relative performance of your building project, the Carbon Heroes Benchmarks now display result values for average and 70th percentile projects.

For clarity, 70th percentile means that a building project with the given results had environmental impacts greater than 70% of benchmarked projects. Conversely, 30% of benchmarked projects had greater impacts than the project with given results.

Carbon Heroes Benchmarks provides you access to unique benchmark analysis from thousands of buildings using One Click LCA for life cycle assessment. You have access to benchmarks based on most recent data (updated in August 2023) from many countries, for lots of building types per country, and separately both with and without MEP equipment impacts.

Read more about Carbon Heroes Benchmarks in [Help Centre](#).

# Cubic Yard as unit for construction groups in Life Cycle Carbon - North America tool

The Cubic Yard (cu yd) unit is now available as an option when grouping materials into a construction. This is how to use it:

- ✓ Set your user account Unit system to "Imperial" and save settings.
- ✓ Create a new project, and design
- ✓ Select tool **Life Cycle Carbon - North America (Imperial units)**
- ✓ Input any 2 or more materials
- ✓ Create a group with those materials
- ✓ Go to "Reference quantity" and click for dropdown for options
- ✓ Select "**cu yd**" from available options

This feature is automatically added to all users with a license to the **Life Cycle Carbon - North America (Imperial units)** tool. If you are interested in adding the tool to your subscription as an add-on, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

# New data to help you calculate more accurately

**We have created 104 new generic datapoints:**

- ✓ 12 new MEP constructions for data centres
- ✓ 92 new structural constructions with bigger sections for data centres (e.g. columns, beams, shear walls)

You can find full details about updates to generic data in our [Help Centre](#).

We have also added more than **20 000** industry datapoints (EPDs). Details in [Help Centre](#).





# Early design & Ecodesign

# Design data centres in Carbon Designer 3D

**Data centre is now available as a new building type in Carbon Designer 3D. The Data centre includes lots of new easy-to-use MEP and structural constructions specific to the building type.**

The data centre building type and associated data is available with all regions in Carbon Designer 3D and compatible building LCA tools. The MEP constructions are also available in the MEP Carbon Tool to facilitate your decarbonisation of data centres. New data in this release:

- ✓ 12 new MEP constructions for data centres
- ✓ 92 new structural constructions with bigger sections for data centres (e.g. columns, beams, shear walls)

This new building type and associated data is automatically available to all users with a subscription to the Carbon Designer 3D add-on. Please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com) to activate your subscription.

# Faster design creation in Carbon Designer 3D

**Design creation is now 50-90% faster with Carbon Designer 3D.**

As part of our ongoing efforts to significantly improve usability and productivity of our tools, we have now also improved the performance of Carbon Designer 3D so that design creation is now 50-90% faster.

These performance improvements are automatically available to all users with a subscription to the Carbon Designer 3D add-on. Please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com) to activate your subscription.



# Product LCA & EPD Software

# New Luminaires EPD Generator for easy & cost-efficient light fixture EPDs at scale (1/2)

The Luminaires EPD Generator is a new tool specifically tailored for light fixtures to help you create Environmental Product Declarations (EPDs) easily, quickly and affordably.

Lighting accounts for 15% of global electricity consumption and 5% of worldwide greenhouse gas emissions. Buyers know this and are looking for ways to reduce their impact. Luminaire EPDs provide reliable environmental data that buyers value and help them choose your products.

This tool is built using lots of automation, templates and pre-verified data so you can generate fully compliant, third-party verified EPDs and publish them with EPD Hub, even without a big budget and lots of experience with EPDs.

## What is different about the new Luminaires EPD Generator?

- ✓ Tailor-made for light fixtures, with required generic data and all qualifying raw material EPDs
- ✓ Ready to use EPD templates for a variety of luminaires and related components
- ✓ Lots of productivity features to make EPD creation easier, faster and less costly (see next page)
- ✓ Integrated EPD publishing and 3rd party verification with [EPD Hub](#)
- ✓ Outstanding training and customer support provided by One Click LCA
- ✓ Compliant with ISO 21930:2022 and EN 15804:2012+A2:2019

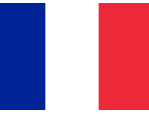
This tool is available as an add-on. Please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com) to activate.

# New Luminaires EPD Generator for easy & cost-efficient light fixture EPDs at scale (2/2)

The new Luminaires EPD Generator makes it much easier, faster and less costly to create EPDs due to a multitude of automations, simplifications and usability improvements.

- ✓ Use a **wide range of templates for luminaires and related components** created by industry sustainability experts and use these templates to easily add bill of materials and other parameters
- ✓ If you prefer, **import product bill of materials** directly from your product lifecycle management system
- ✓ Use the **manufacturing site feature to model your manufacturing sites** and have them verified by a certified EPD Hub auditor only once, and then easily re-use this data for all your EPDs and designs
- ✓ Model **components used across a range of products as private datasets** and have them verified by a certified EPD Hub auditor only once, and then easily re-use this data for all your EPDs and designs
- ✓ **Use the streamlined inputs for Service life and product characteristics** that are tailored for Luminaires to save time when creating an EPD
- ✓ **Publish EPDs instantly once created** without separate verification for each EPD to save both time and cost (available once the ongoing Luminaires EPD Generator verification as an end to end tool by EPD Hub is complete)

# New EPD Generator for French regulations with results per Functional Unit (FU)



EPD Generator for French regulations is a new tool designed specifically to create EPDs in compliance with regulation in France and publish these EPDs with EPD Hub, INIES or PEP Ecopassport. The tool comes with Ecoinvent 3.8 data, automation to speed up EPD creation, and some features unique to France.



The EPD Generator for French regulations is now available for manufacturers who publish FDES, i.e. Environmental Product Declarations (EPDs), in accordance with French regulation. You can now easily generate EPDs with One Click LCA and then submit them to [EPD Hub](#), [INIES](#) or [PEP Ecopassport](#) for verification and publishing.



The tool includes all productivity and usability features, as well as Ecoinvent 3.8 data, available e.g. in the EPD Generator for EPD Hub v2. Features specific to French regulation include:



- ✓ Input the Functional Unit (FU) for the product
- ✓ Calculate all impacts both per Declared Unit (DU) and Functional Unit (FU)
- ✓ Generate the resulting EPD in French
- ✓ Easily generate a background report

This tool is available as an add-on. Please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com) to activate.



# LCA Commons LCI data for North America available in all EPD generators (BETA)



LCI datasets from Federal LCA Commons are available in all EPD generators by the end of October. This is a BETA release and availability may change.

Around 1000 LCI datasets from the Federal LCA Commons database for a variety of products and processes relevant for the construction industry will be available in all One Click LCA EPD generators by the end of October.

The Federal LCA Commons is a digital home for the aggregation, description, and standardization of Life Cycle Inventory (LCI) data. It is a collaborative effort between local organisations in North America, including United States Department of Agriculture (USDA), National Agricultural Library (NAL), National Renewable Energy Laboratory (NREL) and Environmental Protection Agency (EPA). Read more on the Federal LCA Commons [website](#).

This data will be automatically available with all licenses to EPD generator tools. This is a BETA release and availability of these datasets may change in the future. If you are interested in adding an EPD generator to your subscription or want to consult about future LCA Commons data availability, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

North American data from Federal LCA Commons is available in the following categories:

- ✓ Manufacturing
- ✓ Energy
- ✓ Transportation
- ✓ Mining
- ✓ Waste management
- ✓ Construction
- ✓ Agriculture, forestry & fishing





# Create EPDs in German language with EPD Generator for EPD Hub



## Create EPDs in German language with EPD Generator for EPD Hub.

To help you better distribute your environmental credentials in Germany and the DACH region, we have added a German language EPD template in EPD Hub v2 tool.

This feature is now available with all licenses including the EPD Generator for EPD Hub v2 tool but is **not automatically activated**. If you wish to activate this feature on your existing license for the EPD Generator for EPD Hub v2 tool, or are interested in adding the EPD Generator for EPD Hub v2 tool to your subscription, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

# Create private EPD in all EPD generators

You can now create private EPDs, also known as private resources, from your project results in all EPD generator tools. This can be useful e.g. if you wish to use the private EPD data as input in another life cycle assessment project.

This feature is now automatically available with all Expert licenses for EPD generator tools. If you are interested in upgrading your subscription or adding an EPD generator to your subscription, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

JE > EPD Generator for EPD Hub V2

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Create PDF

Input data ▾

Compare designs ▾

Compare data (10)

More actions ▾

erator for EPD Hub V2 [Project basic information](#)

ators - EN 15804+A2, PEF [Download Results Summary](#)

4+A1, CML / ISO 21930 [Download Results Summary](#)

.1. / ISO 21930 [Download Results Summary](#)

d Results Summary

Summary

## Reports

Detailed report

Generate EPD as a Word document

Generate EPD in German as a word document

Generate Carbon Footprint as a Word document

Générer la FDES +A2

Jump to a verification point

Download ILCD+EPD

Save as private resource

Send data to another user

Export to Autocase

## EPD Hub submission

Download digital EPD

Download EPD Hub digital content zip file

Submit to EPD Hub

# Usability improvements in Concrete EPD Generator

Several usability improvements are now available in the Concrete EPD Generator:

- ✓ You can now enter **Production loss** as a single data entry for the whole product.
- ✓ We have simplified the Manufacturing - A3 section by removing the question for **Waste generated**. The manufacturing waste impacts are now accounted for in the **Production loss** of materials and ancillary materials (see above).
- ✓ You can now enter **End of life** as a single data entry for the whole product.
- ✓ Additional **Exposure classes** can be defined as free text (only for information purposes)

The Concrete EPD Generator is an optimised tool specifically tailored for concrete and helping you create Environmental Product Declarations (EPDs) easily, quickly and affordably.

These improvements are now automatically available with all licenses including the Concrete EPD Generator tool. If you are interested in adding the Concrete EPD Generator tool as an add-on to your subscription, please contact [sales@oneclicklca.com](mailto:sales@oneclicklca.com).

# || General updates

# New User Manager role for enterprise customers to manage all users company account

We are introducing a new **User Manager** role for enterprise customers to manage all employees who are users of their company account in One Click LCA. This new role also receives all notifications related to the company account.

This new role is available to Enterprise plan subscriptions only.

Read more about user roles and rights management in [Help Centre](#).