



Release notes Sept 7, 2022



Release highlights

GENERAL IMPROVEMENTS

- ✓ API returns impacts for all LCA stages for both building LCA and product LCA projects

BUILDING & INFRA LCA

- ✓ **New simplified global life-cycle carbon tool for non-expert users** new
- ✓ Speed up planning across your company with private templates for Carbon Designer 3D

PRODUCT LCA & EPD SOFTWARE

- ✓ **Balance biogenic carbon for A1 raw materials & A3 packaging with a simple, automated feature**
- ✓ Easily model losses in material quantity during A5 installation

GLOBAL DATA & COMPLIANCE

- ✓ **Thousands of new datapoints to help you calculate carbon emissions more accurately**
- ✓ Whole life carbon assessment tool now compliant with Green Mark in Singapore new

new = Completely new tool or major feature



Building & infrastructure LCA

New simplified global life-cycle carbon tool

Based on customer feedback, we have made available a simplified tool for the assessment of life-cycle carbon emissions for building projects. The tool can be used globally and is designed for non-expert users so they can quickly and easily get a first estimate of project emissions.

The tool can also be used by sustainability managers at large, multi-national corporations to encourage broader awareness and adoption of life-cycle assessment tools and practices within their organizations.

This new tool is a simplified version of the existing Life Cycle Global Carbon tool with data entry queries only for **Materials**, **Energy**, **Calculation period** and **Area**. All other queries have been removed for simplicity and we have also simplified the **Materials** query. The results page and other results reporting have been updated accordingly.

If you are interested in this tool, please reach out to sales@oneclicklca.com for details.

Private templates for Carbon Designer 3D

With private templates, you can create baseline buildings with selected materials to speed up and harmonise planning across your company.

Any design in Carbon Designer 3D can be saved fully or partially as a private template in the company account. Once saved, any account user can then apply the private template (in step 5) when creating new designs. Private templates store the selection of constructions (shares) and materials from a specific Carbon Designer 3D design, as well as building parts as defined by the user.

Example use cases for private templates:

- ✓ Create partially or fully adjusted baseline buildings to include desired public or private constructions or material data
- ✓ Create baseline building for a new region and apply it, e.g. on top of the International region
- ✓ Create alternative scenarios for desired building parts, e.g. alternative envelope solutions matching alternative energy consumption scenarios or energy regulations
- ✓ Create custom structural scenarios, i.e. a range of templates affecting the structural elements

The feature is now enabled for all Expert users that have access to Carbon Designer 3D and for users whose license was expected to have the full version of Carbon Designer 3D.

Private templates for Carbon Designer 3D (cont'd)

Private templates are managed in the same way as private constructions & datapoints.

The main users of the company account can publish any number of private templates.

Other company account users can submit suggested templates and then main users can approve them.

More info on how to use and manage the templates can be found in our Help Centre [here](#).

Main > Company account

One Click LCA Ltd company account

Get more tools Save Cancel

General information Licenses and users **Data management** Brand and EPD visuals Quick start templates Sales and Administration

Data management

	Count		
Upload custom EPD in INIES XML format		Edit	?
Private constructions		Edit	?
Private datasets		Edit	?
Private classifications		Edit	?
Enabled data lists		Edit	?
Favorite materials		Edit	?
Carbon Designer 3D templates	0 + 1	Edit	?

Finland: New reference building for Carbon Designer 3D with SYKE carbon impacts



A new, alternative reference building for Finland is available in Carbon Designer 3D. This new regional reference building is based on co2data.fi data from the Finnish Environment Institute (SYKE).

The new regional reference building can be accessed through the local tool Building low-carbon assessment method 2021 (Rakennuksen vähähiilisyyden arviointimenetelmä 2021).

Note that this new regional reference building and the underlying co2data.fi data includes only carbon impacts. Hence, if you wish to perform LCA calculations with more impact categories in Finland, please use the original regional reference building which remains available.





Global data & compliance

Thousands of new new datapoints to help you calculate carbon emissions more accurately

We have added around 2500 industry datapoints since mid-July.

We have also added 7 new MEP constructions (mechanical, electrical and piping) with variations for buildings of different sizes and covering the following systems:

- ✓ Fire protection
- ✓ Water distribution
- ✓ Gas installation
- ✓ Sewage evacuation
- ✓ Lighting

Note: New One Click LCA public constructions are generally available in all tools automatically. That said, tools follow different certification schemes and data restrictions may apply in some cases.

Singapore: whole life carbon assessment tool now compliant with Green Mark



Our **whole life carbon assessment tool** is now compliant with the **Singapore Green Mark certification standard**.

In addition to the Singapore Green Mark 2021 Certification Standard, this tool also meets the RICS professional statement and guidance (Whole life carbon assessment for the built environment 1st edition, November, 2017) and London Plan Guidance on Whole Life-Cycle Carbon Assessments.

The BCA Green Mark is an internationally recognised green building certification scheme tailored to the tropical climate. It encourages the industry and professionals to collaborate and develop green building solutions, raising Singapore's built environment's sustainability standards.



France: updates to RE2020 tool

Improvements have been made in the calculation of some results displayed in the software or in the RSEE, and there is a new update for private data import :

The latest standardised XML schema for importing private data (from configurators) has been integrated, which means that you can now import XML files from configurators Bankiz, VICAT or VINCI Construction. The biogenic carbon storage value from the private data will be used in the calculation of StockC thanks to this update.

The RSEE has been updated so that the main indicators displayed at zone level, which were previously displayed in $\text{kgéqCO}_2/\text{m}^2$ of building area, are now in $\text{kgéqCO}_2/\text{m}^2$ area of each zone. The Mipv modulation that wasn't displayed, although it was correctly included in the calculation, is now visible in the RSEE.

The calculation of StockC (stored biogenic carbon) has been refined for materials that get replacements, as in these cases biogenic carbon storage was counted also for replacements which is no longer the case. The updated results can be seen both on the result page and in the RSEE.

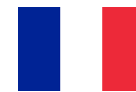
France : mises à jour de l'outil RE2020

Des améliorations ont été apportées dans le calcul de certains résultats affichés dans le logiciel ou dans le RSEE. On retrouve également une mise à jour concernant les données privées (configurateurs) :

Le dernier schéma XML officiel pour l'importation de fiches configurées a été intégré, ce qui signifie que vous pouvez également importer les fiches XML des configurateurs Bankiz, VICAT ou VINCI Construction. La valeur du stockage de carbone biogénique de la fiche configurée sera prise en compte dans le calcul de StockC grâce à cette mise à jour.

Le RSEE a été mis à jour afin que les principaux indicateurs affichés au niveau des zones soient en $\text{kgéqCO}_2/\text{m}^2$ de surface de la zone, au lieu d'être divisés par la surface du bâtiment. La modulation Mipv apparaît maintenant dans le RSEE, bien que sa valeur était déjà prise en compte dans les calculs.

Le calcul du StockC (carbone biogénique stocké) a été affiné pour les matériaux qui obtiennent des replacements, car dans ces cas, le stockage de carbone biogénique a également été comptabilisé pour les replacements, ce qui n'est plus le cas. Les résultats mis à jour sont visibles à la fois sur la page des résultats et dans le RSEE.



Japan: updated life-cycle carbon tool



We have made available a new tool named “**Life-Cycle Carbon, Japan 2022**”. The new tool includes new Japan-specific data for **transportation scenarios (reference: CFP_PCR for construction) and repair rates (reference: calculation conditions from CASBEE_LCCO2 calculation sheet)**.

The tool has been added to all existing customer licenses. Users can also add the new tool to any of the existing projects and all inputs will be present automatically. The old tool will be deprecated in 6 months, but old projects will be still accessible.

For more information, please contact us by email

- ✓ lca@sfc.co.jp (in Japan)
- ✓ sales@oneclicklca.com (outside Japan).

日本向けの新ツール「ライフサイクルカーボン、日本 2022（推奨版）」をリリースしました。

新ツールでは、輸送シナリオ*と修繕率*について日本独自のデータがデフォルト搭載されています。

新ツールはすでに日本国内の全ユーザーのライセンスに自動的に導入されており、新規プロジェクト作成のツール選択画面から選択することができます。また、プロジェクトのページからツールを追加することで、旧ツールで算定した既存プロジェクト内にも新ツールの算定結果を表示させることが可能です。その場合にも、旧ツールの算定結果は保持されます。

移行期間として今後6か月間は新旧ツールの両方が提供されます*が、その後旧ツールのサービスは停止されます。なお、旧ツールを使用して算定した既存プロジェクトの結果はサービス停止後も閲覧が可能です。

*参照：“CFP_PCR 建築物”（輸送シナリオ）、“CASBEE_LCCO2計算シート 算定条件”（修繕率）

*新ツールのリリース後にご契約いただいたお客様には新ツールのみが提供されます。

ご不明な点がございましたら、以下のメールアドレス宛にご連絡ください。

日本国内のお客様：lca@sfc.co.jp

日本国外のお客様：sales@oneclicklca.com

New End-of-Life method for infrastructure projects

The End-of-Life (EoL) methods “**Market scenarios, user-adjustable**” and “**Use EPD EoL scenario, user-adjustable**” can now be used for infrastructure projects and the first method is the new default.

The method “**Market scenarios, user-adjustable**” has been the default for building and infrastructure projects since June, but that did not affect the results in infrastructure projects until now. **This means that projects created since 14th June have already this method selected as the default and resaving the projects will change the results in C and D LCA stages.**

Users can still use the old method in new projects by selecting the “**Material locked**” option and in general switch between the available options in EoL settings in LCA parameters.

The main differences between the new and previous default methods are:

- ✓ The new method has updated impact profiles with different EoL scenarios for the two main types of project location geographical area: (a) more regulated markets where recycling and waste incineration are commonly prioritized over landfilling, and (b) markets where landfilling is the most common scenario.
- ✓ The new method allows Expert license users to see and switch the default End-of-Life scenario for each resource directly in the materials query in the relevant tools. Users select from a range of eligible waste treatment scenarios, including reuse.
- ✓ The new method allows module D calculations to take into account local heating practices
- ✓ The new method is not relevant for tools that mandate a specific EoL calculation methodology
- ✓ More details regarding the differences of the methods can be found [here](#) and [here](#)



Other global data & compliance improvements

The End-of-life calculation method “Material-locked” has been improved so that fully recycled material resources will no longer get D impacts calculated. Affected resources have been deactivated and new alternatives with the same names have been published. The change is not expected to cause changes in impacts in any of the existing projects.

The MilieuPrestatie Gebouwen (MPG) LCA tools now support the use of private classification systems for materials, allowing you to group and visualize materials and impacts in your preferred set up. More info on how to use the feature can be accessed [here](#). This is an Expert license feature.



Product LCA & EPD software

Balance biogenic carbon for A1 raw materials & A3 packaging with a simple, automated feature

A feature for greatly speeding up the process of balancing biogenic carbon calculations for A1 raw materials and A3 packaging in your LCA model.

The feature contains an additional question on your data input rows in the **Manufacturing materials** and **Ancillary and packaging materials** sections respectively. You simply choose in which module the biogenic carbon needs to be balanced.

This allows for very quick handling of the balancing of biogenic carbon flows according to EN 15804 and EN 16485. Help is also provided to guide you to choose the correct LCA modules.

2. Ancillary and packaging materials - A3 9 kg CO₂e - 40 %

Packaging materials Compare answers Create a group Move materials Add to compare

Input here packaging materials used to ship and protect the product, if any

Start typing or click the arrow

Resource	Quantity	Mass/unit	CO ₂ e	Comment	Classification	Company classification	Transport, kilometers	Transport, leg 2, kilometers	Use for +A1/+A2/TRACI	Allocation, %	Balancing biog. carbon
Eur-flat pallet production (Referen ?)	1 unit	1.0 kg	7.1kg - 30%	Packaging, pallet (weight of	Packaging, pallet	No classification	Market for transport	Market for transport	All	100	A3 Change

Ancillary materials Compare answers Create a group Move materials Add to compare

Easily model losses in material quantity during A5 installation

You now have access to a new feature to model material loss during A5 installation. Hence, you can save time as you are no longer required to model the A1-A3 inputs separately in the A5 materials.

You can now easily model potential losses in material quantity during installation.

- ✓ Assign a single **loss percentage** in the **Installation into the building** - section of the **Construction (A4-A5)** - query
- ✓ This **loss percentage** is then used as a multiplier for inputs from A1-A3 and A4 to calibrate emissions accordingly
- ✓ These calibrated values are then presented in the **A5 module** in EPD results

2. Installation into the building - A5 ☁ 0.32 Tons CO₂e 📦 296025 kg mass

Material loss during installation [Compare answers](#) ▾

Enter here as percentage the share of product lost during the installation and construction activities.

Answer	Comment	Classification
<input type="text"/> %	<input type="text"/>	<input type="text"/>

Other product LCA & EPD software improvements

Quality of life improvements for report generation, including formatting and visual improvements to EPDs generated with 'EPD generator for EPD Hub'. If you wish, you can of course still edit the reports manually.

Update to the ILCD export XML to answer demands from International EPD System to provide digital EPD data.

Improvements to the new EPD description questions documenting allocation, averaging and cut-off rules, including better help and inclusion to the import functionality.



General improvements

API returns impacts for all LCA stages & other quality improvements

When you use our API to calculate project LCA results, the API response can now include impacts for all LCA stages, as available in the tool you apply. This improvement applies to both building LCA and product LCA.

|| Please contact us via email (sales@oneclicklca.com) should you need more information about the API, e.g. if you already use the API and would like to activate this improvement, or if you don't use our API yet but would like to start doing so.

We have also again implemented some security improvements and many smaller fixes requested by customers.