Release notes

April 2023

Release highlights

EARLY DESIGN & ECODESIGN

✓ **New Middle East and North Africa region in Carbon Designer 3D** `new`

✓ New Glulam wooden structural frames for all regions in Carbon Designer 3D

BUILDING & INFRA LCA

✓ Lots of new generic materials data: furniture, hemp fibre products, recycled concrete and alternative fibres for concrete rebars

✓ EPDs with +A2 data available in the RE2020 tool for France

✓ Performance improvements to plugins for Rhino & Grasshopper

`new` = Completely new tool or major feature

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Early design & Ecodesign

New Middle East and North Africa region & Glulam structural frames in Carbon Designer 3D

Middle East and North Africa region is now available in Carbon Designer 3D, reflecting current construction practices in the area.

The new Middle East and North Africa region is also recommended for Central Asia. The update includes hundreds of new constructions specific to the region, e.g. foundations, external walls, floors slabs, load bearing walls, walls and floor finishes and roof slabs.

You can now also create early building designs with Carbon Designer 3D using load-bearing **structural frames based on Glulam Timber** with the naming "**Glulam timber column-beam frame and CLT slabs. Max column spacing 7.5 m**". This load-bearing wall frame is available in all regions but most appropriate for regions with no or low seismicity.

Finally, **Underground floors** are now visible in the 3D model in Carbon Designer 3D.

These updates 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.

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New data to help you calculate more accurately

We have created lots of new generic materials data:

- ✓ **19** new furniture resources: tables, tabletops, table legs, sofas.

- ✓ **32** new concrete reinforcement resources: steel fibre, glass fibre, plastic fibre, organic fibre, hemp fibre, recycled concrete aggregate (RCA) etc.

- ✓ **1** new wood resource: laminated veneer lumber (LVL).

- ✓ **106** new glulam timber constructions: external walls, floor slabs, roof slabs, columns and beams.

- ✓ **215** new constructions for Middle East & North Africa region: foundations, external walls, floors slabs, load bearing walls, walls and floor finishes, roof slabs, etc.

- ✓ **16** new MEP constructions for apartment buildings: lighting, electronics, water, power etc.
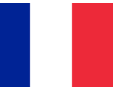
We have also updated other generic data:

- ✓ New fuel resources to replace old ones: coal, oil, gas, peat, wood, waste, solar, hydro, wind, nuclear and geothermal

- ✓ New tap water resources to replace old ones: conventional and reverse osmosis treated

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

We have also added around **700** industry datapoints (EPDs) and updated another **150**. Details in Help Centre.

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EPDs with +A2 data available in RE2020 tool

EPDs with +A2 data now available in the RE2020 tool.

As more EPDs with +A2 data get published in the INIES database, we will also make them available in the RE2020 tool. Impacts from these EPDs are directly taken into account in the results as the tool has already been updated to comply with the latest standard.

We now support private EPDs compliant with NF EN 15804+A2 & PCR edition 4 standards produced by official INIES EPD generator tools [in French : configurateurs]. It is still possible to upload +A1 private EPDs from these EPD generator tools on your company account, as both +A1 and +A2 data can be used in the RE2020 tool. As a reminder, it is not mandatory to have +A2 data in your project to be compliant.
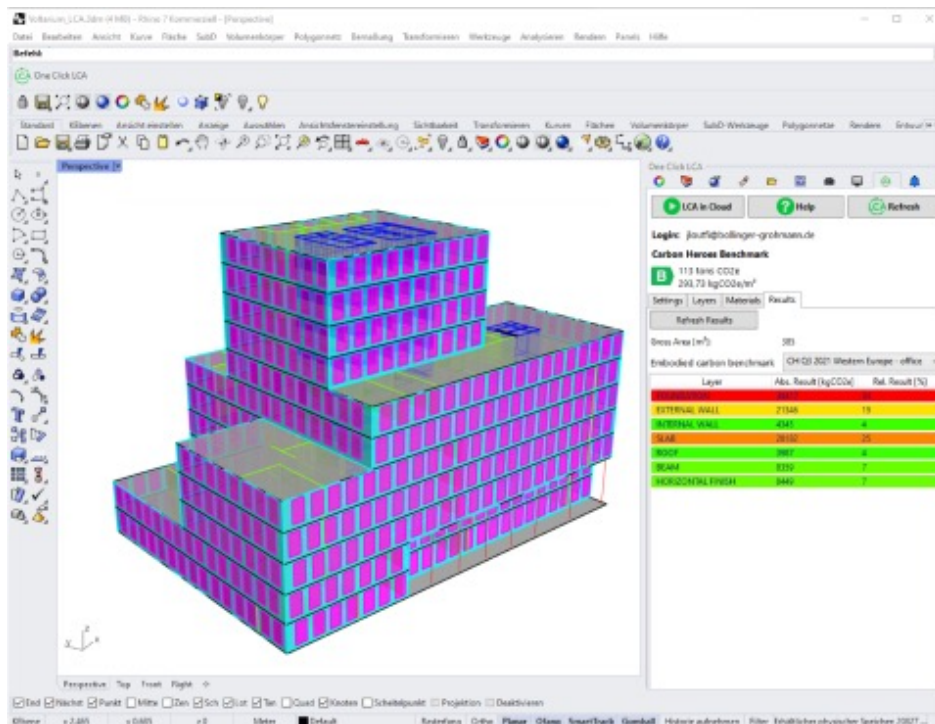
The benchmark of materials in the INIES database has been updated to include +A1 and +A2 data, as the carbon impact (GWP) indicator of each data standard is considered as equivalent in the RE2020 calculation method. Then, the integration of +A2 data will not reduce the opportunity of carbon optimisation when selecting materials thanks to the benchmark.

Les premières données environnementales +A2 compatibles avec l'outil RE2020 sont disponibles. Comme nous avons commencé leur intégration, de plus en plus de données +A2 seront disponibles lorsqu'elles seront publiées dans la base de données INIES. Leurs impacts sont directement pris en compte dans les résultats puisque l'outil a déjà été mis à jour pour se conformer à la dernière norme.

Nous supportons désormais les fiches configurées conformes aux normes NF EN 15804+A2 & PCR éd. 4 produites par les configurateurs officiels. Il est toujours possible de télécharger des fiches configurées +A1 provenant de ces configurateurs sur votre compte d'entreprise, puisque les données +A1 et +A2 peuvent toutes deux être utilisées dans l'outil RE2020. Pour rappel, il n'est pas obligatoire d'avoir des données +A2 dans votre projet pour être conforme.

Le benchmark de la base de données INIES a été mis à jour pour inclure les données +A1 et +A2, car l'indicateur d'impact carbone (Potentiel de réchauffement climatique) de chaque norme de données est considéré comme équivalent dans la méthode de calcul RE2020. Ainsi, l'intégration des données +A2 ne réduira pas l'opportunité d'optimisation carbone lors de la sélection des matériaux grâce au benchmark.

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Performance improvements to plugins for Rhino & Grasshopper

We have released new versions (1.2.3.0) of the One Click LCA plugins for Rhino and Grasshopper to improve their performance with most recent updates to Rhino software.

As a reminder, these plugins let you first import data from Rhino to your One Click LCA account to calculate impacts, and then export the results back into Rhino (licence level limitations apply).

You can find full details about the Rhino and Grasshopper plugins in our Help Centre.

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