



# Release notes December 2022 19.12.2022



# Release highlights

## EARLY DESIGN & ECODESIGN

- ✓ New regional reference building available for Spain in Carbon Designer 3D **new**

## BUILDING & INFRA LCA

- ✓ Option to disable material localisation with new manufacturing localisation method version 2.1
- ✓ Benchmarking of products in the French INIES database is re-enabled

## PRODUCT LCA & EPD SOFTWARE

- ✓ EPD Generator for EPD Hub v2 with Ecoinvent 3.8 data is available **new**
- ✓ New downloadable PDF report available in the Product Carbon tool

## GLOBAL DATA & GENERAL

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

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



# Early design & Ecodesign

# Carbon Designer 3D: New regional reference building available for Spain



A new reference building is available for Spain region in Carbon Designer 3D which reflects common choices e.g. for structure, materials and energy consumption.

- ✓ 5 different climate zones regions available (A, B, C, D and E)
- ✓ External wall and roof slab constructions available for each climate zone, based on the average U-values
- ✓ Default constructions are based on reference buildings made available via the Verde certification standard in 2022
- ✓ Spanish local generic data is used where available, esp. for hollow bricks and concrete





# Building & Infrastructure LCA

# Option to disable material localisation with new manufacturing localisation method version 2.1

In November, we made manufacturing localisation method version 2.1 the default selection as in most cases it provides many benefit over the old versions. The method v2.1 seeks to localise impacts from all sources, including selected material datapoints with EPDs.

This approach might however not be optimal e.g. in projects where materials are sourced from outside the project target country. To get more realistic results in this type of projects, you can now select to use the new option to “**Disable material localisation**” for the project in the LCA parameters settings also for manufacturing localization method v2.1.

When this option is selected, no localisation is applied to material datapoints with actual EPDs and method v2.1 is used only for compensating environmental data of generic datapoints by One Click LCA.

# France: updates to FEC/RE2020 tools

## Benchmark of construction products and equipment in the INIES database is re-enabled

The benchmark of materials in the INIES database is no longer prohibited, following the request of the DHUP, which allows us to restore this functionality in our software.

It will soon be available on both the **Energie Carbone (E+C-)** and **RE2020** tools. The benchmark makes it easier to select materials for the eco-design of buildings by comparing the impact of materials with those of other elements of the same family.

Matériaux de construction ✓ Énergie et eau ✓ Chantier Fluides frigorigènes ✓ Production locale d'énergie ✓ Description du bâtiment

Effacer Matériaux Pays Source des données Type Origine CO2e Unité Propriétés Data Purposes

Rez-de-chaussée, chapes intermédiaires, toits et poutres ⓘ Créer un groupe Déplacer les matériaux Ajouter pour comparer

Commencez à taper ou cliquez sur la flèche

- KNAUF INSULATION laine de verre ECOSE Naturoil 035 120 mm, R=3.43 m2K/W, L=0.035 W/mK, 120 mm, 2.29 kg/m2, 19.08 kg/m3, Lambda=0.035 W/(m.K), KNAUF INSULATION laine de verre ECOSE Naturoil (Insulation SAS) - INIES
- IBR Nu 300 mm, R=7.5 m2K/W, L=0.04 W/mK, 300 mm, 3.835 kg/m2, 12.78 kg/m3, Lambda=0.04 W/(m.K), IBR Nu 300 mm (SAINT-GOBAIN ISOVER) - INIES
- IBR Nu 100 mm, R=2.5 m2K/W, L=0.04 W/mK, 100 mm, 1.215 kg/m2, 12.15 kg/m3, Lambda=0.04 W/(m.K), IBR Nu 100 mm (SAINT-GOBAIN ISOVER) - INIES
- IBR Nu 200 mm, R=5 m2K/W, L=0.04 W/mK, 200 mm, 2.45 kg/m2, 12.25 kg/m3, IBR Nu 200 mm (SAINT-GOBAIN ISOVER) - INIES
- ISOLENE 4 460 mm, L=0.046 W/mK, R= 10 m2K/W, 460 mm, 5.422 kg/m2, 11.79 kg/m3, ISOLENE 4 460 mm (SAINT-GOBAIN ISOVER) - INIES
- Isocompact 034 140 mm, L=0.034 W/mK, R=4.1 m2K/W, 140 mm, 9.68 kg/m2, 69.14 kg/m3, Isocompact 034 140 mm (SAINT-GOBAIN ISOVER) - INIES
- Domisol LV 15 mm, L=0.032 W/mK, R=0.45 m2K/W, 15 mm, 1.21 kg/m2, 80.67 kg/m3, Domisol LV 15 mm (SAINT-GOBAIN ISOVER) - INIES
- GR 32 Nu 160 mm, R= 5 m2K/W, L= 0.032 W/mK, 160 mm, 4.38 kg/m2, 27.38 kg/m3, Lambda=0.032 W/(m.K), GR 32 Nu 160 mm (SAINT-GOBAIN ISOVER) - INIES
- URSA PULS'R 47 - 120 mm (hors accessoire de fixation), L=0.047 W/mK, R=2.5 m2K/W, 120 mm, 1.3 kg/m2, 10.8 kg/m3, Lambda=0.047 W/(m.K), URSA PULS'R 47 - 120 mm (URSA FRANCE SAS) - INIES

# France : mises à jour des outils E+C-/RE2020

## Benchmark des produits de constructions et équipements de la base INIES

Le benchmark des matériaux de la base INIES n'est plus interdit, suite à la demande de la DHUP, ce qui nous permet de rétablir cette fonctionnalité de notre logiciel.

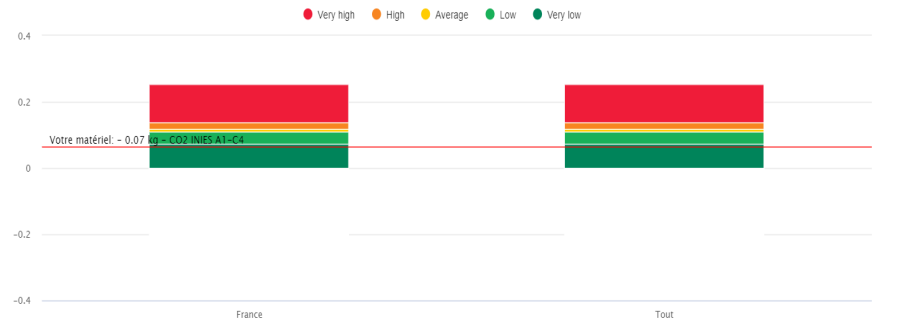
Celle-ci sera bientôt disponible à la fois sur l'outil **E+C-** et l'outil **RE2020**. Le benchmark permet de faciliter, lors de la sélection des matériaux, l'écoconception des bâtiments en comparant l'impact des matériaux avec ceux d'autres éléments de la même famille.

### Référence pour Murs en béton préfabriqués, 47 produits, KG - CO2 INIES A1-C4 ⓘ

Les données de référence ne prennent pas en compte la compensation locale. Les résultats après compensation peuvent varier.

Sélectionnez le seuil : Cut off 5%

Pour affiner les plages visualisées, cliquez sur les noms des quintiles indésirables pour les enlever du graphique



# France: updates to FEC/RE2020 tools

Improved user experience on the "Input data: RSET and project data" page:

- ✓ It is now easier to identify missing data for the export of the RSEE and threshold calculation on the "Input data: RSET and project data" page. Save will only redirect to the project page where the different designs are located if the RSET/RSEE is uploaded and the mandatory questions for threshold calculation are filled in (altitude, climate zone and the date of building permit submission).

- ✓ It is still possible to go back and edit the designs after saving, despite the missing data. The different fields filled in by the user will have been saved. The parameter button will remain red.

# France : mises à jour des outils E+C-/RE2020

Amélioration de l'expérience de l'utilisateur sur la page « Saisir les données : RSET et données du projet » :

- ✓ Il est désormais plus facile d'identifier les données manquantes pour l'export du RSEE et le calcul des seuils sur la page « Saisir les données : RSET et données du projet ». Sauvegarder ne redirigera vers la page du projet où se trouvent les différentes conceptions uniquement si le RSET/RSEE est téléchargé et que les questions obligatoires pour le calcul des seuils sont remplies (altitude, zone climatique et date de dépôt du permis de construire).

- ✓ Il reste possible de revenir en arrière pour éditer les conceptions après avoir sauvegardé, malgré les données manquantes. Les différents champs remplis par l'utilisateur auront été sauvegardés. Le bouton paramètre restera rouge.



# France: updates to RE2020 tool

## RSET/RSEE import of energy and administrative data:

RSET 2zones.xml Supprimer

Choose File No file chosen (xml) (max. 1 Fichiers / 9 MB)

Lire le RSET/RSEE

Conception

Batiment

Zones

Parcelle

2 zones

25LC a ST LOUIS

Zone non traversante Zone 1

Zone traversante Zone 2

Afin que les données soient correctement importées dans les onglets "Energie et eau", "Production locale d'énergie" et "Description du bâtiment", veuillez cartographier chaque bâtiment et zone présents dans le RSET/RSEE en l'associant à une conception créée sur la page principale du projet. Cliquez ensuite sur "Importer les données RSET/RSEE". Enfin, vérifiez le bon import des données dans chacun des trois onglets. La cartographie réalisée sera aussi utilisée pour combiner le RSET/la partie énergétique du RSEE chargé avec les données issues de l'ACV lors de l'export du RSEE. Consultez l'article sur l'ACV et l'export du RSEE [here](#).

Importer les données RSET/RSEE

New administrative data can now be captured from the RSET/RSEE. On the **"Input data: RSET and project data"** page, you can now import the altitude, GPS coordinates or soil pollution. If the uploaded file is a RSEE, the area of the parcel can also be imported. **The climate zone must always be entered manually and impacts the calculation of thresholds.**

The **"Building Description"** page is also filled in, for all the questions except for the additional questions for the zones (usage, noise category...). The file must be an RSEE to import the duration of the building site.

# France : mises à jour de l'outil RE2020

## Import RSET/RSEE de données énergétiques et administratives :

Matériaux de construction Énergie et eau Chantier Production locale d'énergie Description du bâtiment

1. Ajouter les zones et caractéristiques du bâtiment

La description du bâtiment par zone est indispensable pour générer les valeurs seuils. Elle peut être complétée automatiquement par l'import des données de RSET au niveau des paramètres projets ou complétée manuellement. Les zones attendues ici correspondent aux zones et/ou entités programmatiques modélisées dans le RSET. Toutes les informations sont à détailler par zone. Veuillez à bien avoir saisi la zone climatique sur la page « Saisir les données : RSET et données du projet », cette donnée n'étant pas importée depuis le RSET/RSEE et impactant le calcul des seuils.

Surface de référence des zones (hors parcelle) Afficher d'autres réponses

La surface de référence correspond à la surface utile pour les bâtiments tertiaire et la surface habitable pour les logements.

Commencez à taper ou cliquez sur la file

Ressource	Quantité	Commentaire	Zone de bâtiment	Usage	Catégorie CE	Raccordés à un réseau de chaudière
Surface de référence par zone	25 m <sup>2</sup>		Zone 1	[RE2020] Bâtiment à usage d'1	CE	Non

De nouvelles données administratives peuvent à présent être capturées depuis le RSET/RSEE. Sur la page **« Saisir les données : RSET et données du projet »**, l'altitude, les coordonnées GPS ou encore la pollution du sol sont maintenant importées. Si le fichier importé est un RSEE, la surface de la parcelle peut également être importée. **La zone climatique doit toujours être saisie manuellement et impacte le calcul des seuils.**



La page **« Description du bâtiment »** est également remplie, pour l'ensemble des questions en dehors des questions additionnelles pour les zones (usage, catégorie CE...). Le fichier doit être un RSEE pour importer la durée de chantier.



# Product LCA & EPD Software

# EPD Generator for EPD Hub v2 available with Ecoinvent 3.8 data (1/2)

## 1. End of life - C1-C4 0.41 kg CO<sub>2</sub>e - 14 % 6 kg mass

Deconstruction, transport, processing, and disposal of waste during product end of life (mandatory)  Compare answers  Create a group  Move materials  Add to compare

The module C1 represents the demolition/deconstruction process for the product so it needs to account for the fuel/energy consumption during this process. This can be modelled by using datasets for fuel consumption. These datasets can be identified by searching with the keywords "burned in". An example dataset would be "Diesel, burned in building machine". The module C2 on the transport of waste from the demolition site to waste processing and disposal. This should be considered with the additional transport question on datasets assigned to modules C3 and C4. For modules C3 (Waste processing for reuse, recovery and/or recycling) and C4 (waste disposal) please use waste treatment datasets. These datasets often are datasets for processing of inputs, be identified under Ecoinvent classification '38: Waste collection, treatment and disposal activities; materials recovery' and from tag 'Waste' on type of dataset on data card, or by searching for 'Treatment' for example. Avoid choosing data labeled for example as "Production of" or "post-consumer" (as those represent use of materials, not end of life processing).

Start typing or click the arrow

Resource	Quantity	Mass/unit	CO <sub>2</sub> e	Comment	Classification	Company classification	Transport, kilometers	Transport, leg 2, kilometers	End of life stage	Output mass type
Module A5/B4/C3 - Plastic so	1 kg	1.0 kg	0.38kg - 13%			No classification			C3 - Waste	Do nothing
Treatment of waste polyethylene, fo	0.73 kg	1.0 kg	0.28kg - 10%	Packaging waste - Waste		No classification	100 Market for transport	50 Market for transport	C3 - Waste	Materials for energy recovery
Treatment of waste polyethylene, fo	0.27 kg	1.0 kg	0.1kg - 4%	Packaging waste - Waste		No classification	100 Market for transport	50 Market for transport	C3 - Waste	Do nothing
Module A5/C3 Wood Chipping	1 kg	1.0 kg	0.02kg - 0.8%			No classification			C3 - Waste	Do nothing
Wood chipping, industrial residual	0.74 kg	1.0 kg	0.02kg - 0.6%	Waste wood from pallets till		No classification	100 Market for transport	50 Market for transport	C3 - Waste	Materials for energy recovery
Wood chipping, industrial residual	0.26 kg	1.0 kg	~0kg - 0.2%	Waste wood from pallets till		No classification	100 Market for transport	50 Market for transport	C3 - Waste	Do nothing
Direct emission to air: Carbon diox	1.6 kg	1.0 kg		Balancing biogenic carbon		No classification			C3 - Waste	Do nothing

Choice about which LCA stage the results are assigned to

Transport to waste processing (C2)

End of life stage

C3 - V

C1 - Demolition

C3 - Waste processing

C4 - Final disposal

EPD Generator for EPD Hub v2 is a new tool designed to speed up EPD creation with key usability improvements:

- ✓ "Materials (A1-A3)" and "Manufacturing (A3)" queries now combine data entry for Ecoinvent data points, One Click LCA EPDs and LCA profile data into one set of questions and one import CLASS.
- ✓ "End of life (C-D)" query combines modules C1-C4 into a single question so more complete end of life scenarios can be created with the "Create a group" function. You now select C1, C3, or C4 module for all entries. "End of life transport (C2)" is reported via an additional question.

# EPD Generator for EPD Hub v2 available with Ecoinvent 3.8 data (2/2)



## Ecoinvent 3.8 data

- ✓ New datapoints are available and many previously existing datapoints have been updated or corrected
- ✓ Ecoinvent version 3.8 also introduces a new system model. This new system model, '**Allocation, cut-off, EN15804**', was developed by ecoinvent to help EPD practitioners comply with the standard EN15804&A2:2019 (CEN/TC 350 2019) and to harmonize the calculation of the standard's indicators.
- ✓ The key differences of the '**Allocation, cut-off, EN15804**' to the previous '**Allocation, cut-off by classification**' system model are (a) the cut-off point between the primary and secondary system, and (b) the calculation of the inventory indicators required in EPDs. These differences mean that for some datasets, the emissions in 3.8 will be different to previous versions.
- ✓ You can read more about our update to Ecoinvent version 3.8 data in our [Help Centre article](#)

## Tool availability

- ✓ This new tool is available in Q1/23
- ✓ You can choose to migrate existing projects to the new tool or switch to the new tool with new projects only
- ✓ Note: All existing EPD tools, incl. EPD Generator for EPD Hub v1 with Ecoinvent 3.6 data, remain also available
- ✓ Contact Customer Support ([support@oneclicklca.com](mailto:support@oneclicklca.com)) to get help with tool activation and migration




# Projects results reporting improvements available for the Product Carbon tool

We have introduced some improvements to help you report your findings in the Product Carbon tool.

- ✓ You can download a PDF report with project results (see example to the right)
- ✓ You can add a description for your product which will appear in results reports, incl. the PDF described above


## PRODUCT CARBON FOOTPRINT



**GWP**  
This quantifies a product's contribution towards global warming. This is referred to as carbon footprint, global warming potential and also embodied carbon.

**STANDARDS**  
These are ISO 14021 self-declared results, calculated according to ISO 14040 and ISO 14044 standards. The results follow ISO 21930/EN 15804+A1.

**SCOPE OF ASSESSMENT**  
The results have a cradle-to-gate scope, comprising raw materials extraction and supply (A1), transport (A2) and manufacturing (A3).



CARBON FOOTPRINT	
Declared unit	kg
Mass of declared unit (kg)	20
GWP A1-A3 (kg CO <sub>2</sub> e)	2.455E0

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**MANUFACTURER AND PRODUCT**

Manufacturer	test
Address	test
Website	test
Product name	test
Product reference	test
Place of production	test
Period for data	test

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**PRODUCT DESCRIPTION**

test 1 testing ticket



# Global Data & General Improvements

# New data to help you calculate embodied carbon more accurately

In December, we added around 4000 industry datapoints (EPDs) and made available Ecoinvent 3.8 data with our new EPD Generator for EPD Hub v2 tool.

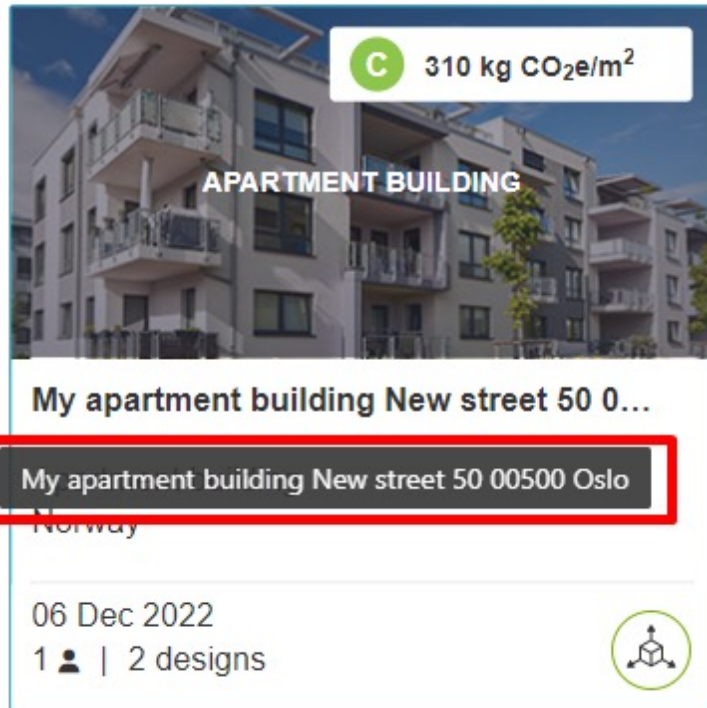
We also created lots of new generic data, including:

- ✓ Secant wall piling constructions for each depth category (10 m, 15 m, 20 m, 25 m, 30 m) with multiple diameters (750 mm, 900 mm, 1200 mm).
- ✓ 9 new infrastructure constructions as a continuation of the work throughout Q4/2022
- ✓ 7 datapoints for resins and adhesives
- ✓ 2 energy datapoints

# New main page: view field full value in tooltip

Your projects (24)

Public demo (22)



APARTMENT BUILDING

310 kg CO<sub>2</sub>e/m<sup>2</sup>

My apartment building New street 50 0...

My apartment building New street 50 00500 Oslo  
Norway

06 Dec 2022  
1 👤 | 2 designs

You can now view the full contents of fields that are not fully visible in the UI due to the text being too long simply by hovering your cursor on top of the field in question.

The example to the right illustrates a project name which is not fully visible due to its length, and a tooltip which displays the full name.