SimaPro desktop 11.0

What's new?

SimaPro

Title: SimaPro desktop 11.0 What's new?

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About SimaPro

SimaPro is life cycle assessment software that helps organizations measure and analyze the environmental impacts of products across their entire life cycle. Built on extensive datasets and established scientific methods, the software provides transparent insights that support product development, sustainability strategy, and environmental reporting.

Used by industry and academia in more than 90 countries, SimaPro enables advanced modeling and scalable environmental impact calculations across teams. With more than 35 years of development behind it, SimaPro is widely trusted in the global LCA community. SimaPro is part of the One Click LCA group.

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1 Introduction

This document describes the changes in SimaPro desktop 11 (formerly known as SimaPro Craft). This latest SimaPro version introduces significant improvements in handling large datasets, along with several new features and software enhancements designed to make your SimaPro experience smoother and more efficient. Additionally, this release includes new data library and updates to existing impact assessment methods. Please read on for further details on what is included in this latest release.

We hope you have a smooth experience updating to SimaPro 11. Feel free to reach out to us for any feedback or suggestions. You're also welcome to share your ideas and vote on improvements via our Ideas Board.

2 Software updates

2.1 New features and improvements

This release brings a series of new features improvements to enhance your SimaPro experience, including:

- **Improved handling of large models**
  SimaPro now uses a 64-bit architecture, allowing it to optimize the memory usage and handle larger amounts of data more efficiently. In practice, this means the following improvements:
    - You can now **calculate large models**, such as processes linked to thousands of background processes without triggering out-of-memory error.
    - You can also **run scenario analysis with many scenarios and compare many processes at once** (for example 200 ecoinvent unit processes in one comparison) without hitting the memory limit.
    - **Exporting large databases and CSV files without memory errors**. You can, for instance, export complete databases (including all projects and libraries) in a single run without experiencing crashes or out-of-memory error. ***Tip!*** For faster export, ensure that both your source database and export destination are located on a local drive (such as C:) and not synced to any virtual drives like OneDrive or SharePoint.

- **Simplified user and license management**
  SimaPro now uses the User Management Service (UMS) to manage user access and license eligibility. Instead of entering the usual SimaPro registration name and code, users can authenticate with their One Click LCA credentials. If you do not have a One Click LCA account yet, please create an account following these instructions. Once authorization is successful, SimaPro will automatically verify active licenses and unlock features and library access associated to the user account. ***Note!*** Only the recognized named user(s) can access SimaPro, so please make sure that you register using the correct email address. To ensure a smooth process, we kindly ask you to inform us should there be any changes to the main user so we can keep our records up to date.

- **Advanced filtering**
  With advanced filtering, you can find the right datasets faster and easier. Instead of relying solely on exact name matches, you can now apply custom, condition-based filters directly within process lists to locate the exact data you need. This reduces the time and effort spent browsing through background data libraries. This feature offers an additional way to search for data, while you can still use the regular filter box as before. For more information and detailed guidance on how to use this feature, please refer to this article.

- **Automated file location in Windows Explorer**
  To make managing exported data faster and easier, SimaPro now automatically opens Windows Explorer and highlights your newly created file right after saving. You no longer need to manually navigate through folders to find your exported documents. Whenever you export data or save calculation results, SimaPro completes the export and immediately opens the destination folder in Windows Explorer with the specific file selected. This enhancement applies to the following save and export workflows:
    - Standard File Exports: Exporting project data or processes to CSV, Excel, or Text formats via File > Export.
    - Storing overview (import, export, errors etc.) via "Store" button
    - Monte Carlo calculation results: Saving sample data using the "Store all samples" option in the results grid.

  Note that database exports and database checks are excluded from this improvement. Windows Explorer will not automatically launch after these actions.

- **Updated SimaPro logo**
  The startup splash screen and Help > About menu have been updated with a modernized layout and updated branding reflecting SimaPro as part of One Click LCA.

2.2 Bug fixes

- **Backup during appending substances** – fixed an issue where opting to create a backup when appending substances would cause SimaPro to become unresponsive, particularly on large databases. Backups during append can now be created and completed successfully.
- **Database conversion** – resolved an issue where opening databases from older SimaPro versions in SimaPro 10.5 would lead to an error for some users. This issue has now been fixed in SimaPro 11 where older databases can be converted and opened seamlessly.
- **Corrected calculations for waste scenarios with formulas** – if you use formulas or parameters to define waste treatment percentages, changing a parameter after the waste scenario was last saved cause a waste treatment process and its environmental impacts to be left out of your results. This has now been corrected in SimaPro 11.

2.3 Known issues

There are a few known issues in the software that we are currently working on:

- Language support
  Some texts, especially warnings and error messages may not yet be (correctly) translated to the chosen language in SimaPro. The text will be shown in English instead.

- Cropped texts in languages other than English
  Some texts may appear cropped in certain languages other than English, either within buttons or elsewhere in the interface. We are working on resolving this to ensure all texts are displayed fully. You can try to reduce the font size or adjust your screen resolution as a workaround in the meantime.

- SimaPro only supports Boolean conditions in combination with multiplication
  Although Boolean conditions can now be combined with multiplication (*), other operators such as addition (+), subtraction (-), and division (/) are not yet supported. We plan to expand this functionality in future updates. In the meantime, you can define each Boolean condition as calculated parameter as a workaround.

- External link manager doesn't work to reflect renamed Excel fields
  When you link "Outputs to technosphere: products and co-products" field to Excel via "Insert External Link" (only available for Developer/Power user license type) and the Excel file is renamed, updating it via Tools > External link manager doesn't update the stored file path correctly. As a result, SimaPro continues to reference the old location. The workaround would be to update the file path manually. **Note:** this issue only affects Developer/Power user license holders and only occurs specifically in "Outputs to technosphere: products and co-products" field. Other fields are not affected.

3 Data library changes

3.1 New data library

3.1.1 US Federal LCA Commons

The US Federal LCA Commons database in SimaPro replaces the existing USLCI+ and USEEIO SimaPro libraries, and contains harmonized data from the US Federal LCA Commons covering USLCI, USEEIO, Electricity Baseline, and more.

The current version includes USLCI 2026.03, Electricity Baseline v1.2025-06.0 as well as bridge processes to USEEIO (US Environmentally-extended input/output) and USFS (the US Forest Service Forest Products Laboratory's Forestry and Forest Products).

Databases are available via the Federal LCA Commons website (https://www.lcacommons.gov) and USLCI GitHub repo, accessed May 2026.

About USLCI

Unit & system life cycle inventory (LCI) datasets are submitted to National Renewable Energy Laboratory group (NREL) by consulting, academia, & industry associations. The USLCI database has more than 2000 process LCIs ranging from fuels combustion, transport, metals, chemicals, resins, paper, etc. to electronics and building materials.

Since 2017, the USLCI Database is a repository on the Federal LCA Commons Collaboration Server. National_Renewable_Energy_Laboratory group (NREL) is collaborating with the US Department of Agriculture (USDA) the Environmental Protection Agency (EPA), the National Energy Technology Library (NETL), the Argonne National Laboratory (ANL), the US Army Corps of

Engineers (USACE), the Federal Highway Administration (FHWA), the US Forest Service (USFS), the Federal Aviation Administration (FAA), and the National Institute of Standards and Technologies (NIST) to develop a US Federal LCA Data Commons. This ongoing effort endeavors to provide improved and coordinated access to Federal LCA data.

The U.S. LCI Database Project data ("Data") are provided by NREL, operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the US Department of Energy ("DOE") under Contract No. DE-AC36-08GO28308. USLCI Database Project was launched in 2001and the database published since 2003.

About Electricity Baseline

The U.S. Electricity Baseline electricity baseline package provides standardized facility releases and generation data to create regionalized life cycle inventory (LCI) models for the generation, mix of generation, mix of consumption, and distribution of electricity to end users for the US, with embedded system processes of upstream fuel production and infrastructure.

Electricity baseline is built using the ElectricityLCI tool created as part of a collaboration between US EPA Office of Research and Development (USEPA) and the National Energy Technology Laboratory (NETL) with contributions from the National Renewable Energy Laboratory (NREL) and support from Eastern Research Group (ERG). The ElectricityLCI tool is available at https://github.com/USEPA/ElectricityLCI

The current version of US Electricity Baseline in SimaPro is v1.2025-06.0 as accessed in May 2026.

About USFS

US Forest Service (USFS)'s Forestry and Forest Products library contains 97 unit- and system-level processes related to the production of traditional and novel forest products from the forest resource stage (A1) to the production of primary and secondary forest products (A3).

The current version available in SimaPro is v1.2026-05.1 as accessed in May 2026.

About USEEIO

USEEIO models are combined economic-environmental models. The models use data on inputs to and outputs from industries and their final consumption and value added in the form of input-output tables from the Bureau of Economic Analysis (BEA). These tables are paired with environmental data on resource use and releases of pollutants from various public sources in the form of satellite tables, as well as indicators of potential environmental and economic impact, using standard algorithms from input-output analysis.

The version in SimaPro is USEEIO v2.0.1–411, also referred to as v2.0. This version is a commodity model with the full breadth of US economic output split into 411 commodity categories. The Bureau of Economic Analysis (BEA) 2012 Detail IO tables define 405 commodity categories. In v2.0, one of the BEA commodities is split into 7 further resolved (more specific) commodities. A full list of model commodities is presented in the primary data record.

Base year economic data for USEEIO: 2012.

Base years environmental data for USEEIO: 2010-2016.

USEEIO v2.0 is a single region model with the 50 states of the United States modeled as a single region. US Territories and Tribal Lands are not included. Domestic and rest of the world (RoW) impacts can be split out in the model calculations.

For detailed information about USEEIO, please refer to:

Ingwersen, W.W., Li, M., Young, B. et al. USEEIO v2.0, The US Environmentally-Extended Input-Output Model v2.0. Sci Data 9, 194 (2022). https://doi.org/10.1038/s41597-022-01293-7

4 Changes to impact assessment methods

4.1 Updates of existing methods

4.1.1 IPCC 2021 and IPCC 2021 - ISO 14067 methods

Characterization factors have been corrected to align with the errata document published 7 October 2025: https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Errata.pdf.

4.1.2 Impact World+ method

Characterization factors have been updated corresponding to the IW+ v2.2.1 update published in March 2026: IMPACT World+ / a globally regionalized method for life cycle impact assessment | Zenodo.

4.1.3 EN 15804 + A2 Method (adapted)

New impact categories and characterization factors to support indicator flows for EPDs / stored LCIA results calculated with the EN 15804 + A2 method.

4.1.4 MarILCA v1.1

Additional substances have been added to this method, based on updates made to the Impact World+ method.

Methods Manual

For more detailed overview of impact assessment methods available in SimaPro desktop, please check the Methods Manual.

5 Contact us

We value your feedback and would love to hear your opinion on this latest SimaPro release. Please feel free to reach out for any questions or suggestions.

- In SimaPro: Help > Contact SimaPro Support (recommended)
- E-mail: support@simapro.com