

Import instructions ecoinvent 3.10 APOS & Consequential

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1 Introduction

The new ecoinvent 3.10 database integrates around 2300 new datasets with expanded geographical coverage. Sectors updated with this version include Agriculture, Building and Construction, Chemicals, Electricity, Forestry and Wood, Fuels, Metals, Packaging, Pulp and Paper, and Waste. More information on new and updated ecoinvent 3.10 data can be found on this [page](#).

With the release of SimaPro 9.6, only ecoinvent allocation, cut-off by classification 3.10 is included by default in the SimaPro Professional and (Full)Update databases. This document provides detailed instructions on installing and importing the ecoinvent 3.10 APOS and Consequential database into your working SimaPro database. **These instructions can be followed by new SimaPro users as well as for users who want to update their previous ecoinvent APOS and Consequential library to the newer version.** You can choose to import all libraries, or only the ones you need (for example only APOS).

Should you have questions about the import procedure, please contact your local [SimaPro partner](#) or SimaPro Support by email at support@simapro.com. For content-related inquiries, please send your questions to the database developer directly at support@ecoinvent.org.

2 Pre-requisites

Before installing the database, make sure you fulfill the following requirements:

- You work with SimaPro 9.6 software and (updated) database
- You have a SimaPro subscription/ service contract (with an ecoinvent license) valid on or after 31-3-2024

Older versions of ecoinvent APOS, consequential

If you already had a previous version of ecoinvent APOS & Consequential, importing this database will update it to version 3.10, thus replacing the older version(s).

3 Installing the database

Double-click **SetupEcoinvent310-APOSConsequential.exe** to start the installation. Follow the instructions in the setup wizard. You will be asked for your SimaPro registration name and code, so please keep this information at hand.

The "Ecoinvent310APOSConsequential" database will be installed in the following directory, by default: C:\Users\Public\Documents\SimaPro\Database\EcoinventAdditional. The database consists of 77 numbered files (Ecoinvent310APOSConsequential00.nx1–Ecoinvent310APOSConsequential76.nx1).

File Explorer path: > This PC > Windows (C:) > Users > Public > Public Documents > SimaPro > Database > EcoinventAdditional

Name	Date modified	Type	Size
Ecoinvent310APOSConsequential00.nx1	10-04-2024 13:14	SimaPro database	20 KB
Ecoinvent310APOSConsequential01.nx1	10-04-2024 13:51	SimaPro database	32,164 KB
Ecoinvent310APOSConsequential02.nx1	10-04-2024 14:12	SimaPro database	32,164 KB
Ecoinvent310APOSConsequential03.nx1	10-04-2024 13:41	SimaPro database	32 KB
Ecoinvent310APOSConsequential04.nx1	10-04-2024 13:41	SimaPro database	1,848 KB
Ecoinvent310APOSConsequential05.nx1	10-04-2024 17:02	SimaPro database	32 KB
Ecoinvent310APOSConsequential06.nx1	10-04-2024 13:14	SimaPro database	20 KB
Ecoinvent310APOSConsequential07.nx1	10-04-2024 13:41	SimaPro database	40 KB
Ecoinvent310APOSConsequential08.nx1	10-04-2024 13:41	SimaPro database	44 KB

Box 1. Default database directory

SimaPro will install the Ecoinvent310APOSConsequential database in the following directory C:\Users\Public\Documents\SimaPro\Database\EcoinventAdditional if no other location is chosen

If you have a multi-user version and cannot find the database in one of the default directories, open the SimaPro database server. In the list of aliases, you can see the location(s) of the database directories that are being used.

The installed database only contains the ecoinvent 3.10 APOS and Consequential data libraries (processes). To make use of this data in your projects, you still need to import this library into your working SimaPro database. This is further explained in [section 4](#).

Note for updating in a multi-user environment

Since we recommend doing the database update locally, the Ecoinvent310APOSConsequential database does not have to be installed in one of the locations (directory aliases) defined in the SimaPro database server. Instead, you can do the update on a local hard drive and then copy your updated database back to the server (see Box 2 below).

4 Importing the database



BEFORE YOU START

Updating/importing a SimaPro database can take 4-6 hours, depending on the size of your database as well as your computer specs. Please be patient throughout the process (**especially at 96% when SimaPro appears unresponsive**), as aborting or cancelling the procedure can lead to database corruption.

1. Start SimaPro. If you have a multi-user license, you need to first copy the database you want to update to a local path (make sure no other users are logged in at this moment). Then open the database via the local server (see Box 2 below).

Box 2. Importing a database in a multi-user environment

In a multi-user environment, importing a database directly via the database server is **very slow** due to additional network traffic. If you have one of the professional multi-user licenses, you need to do the database update locally on a (fast) PC with the SimaPro client installed. This is much quicker.

To do that, log in as Manager and check under Tools > User Management that no users are logged into the SimaPro database. If so, you can close SimaPro. Locate the database on the server's hard drive and copy the database (a set of 77 numbered *.NX1 files) to your local hard drive. In the "Open SimaPro Database" window, choose "Local server", and browse to the directory you copied the database to. Continue with the import instructions below.

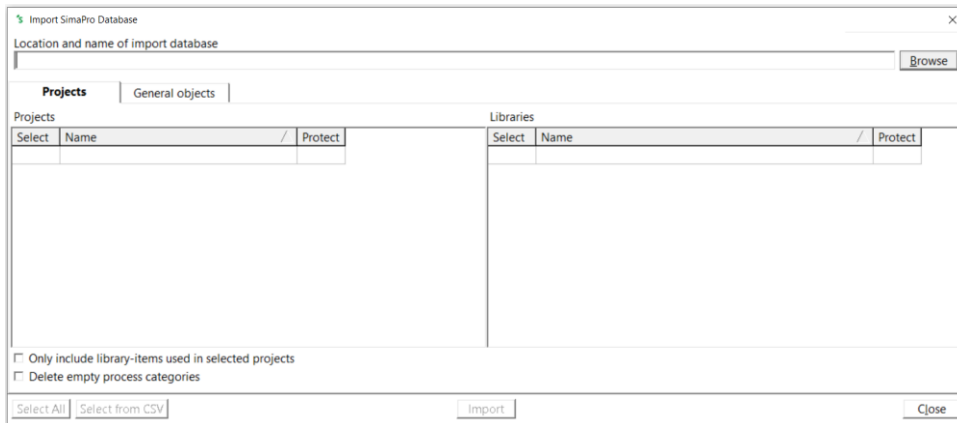
After the import is complete, copy the database back to its original location on the server.

Box 3. Importing the database in SimaPro Classroom

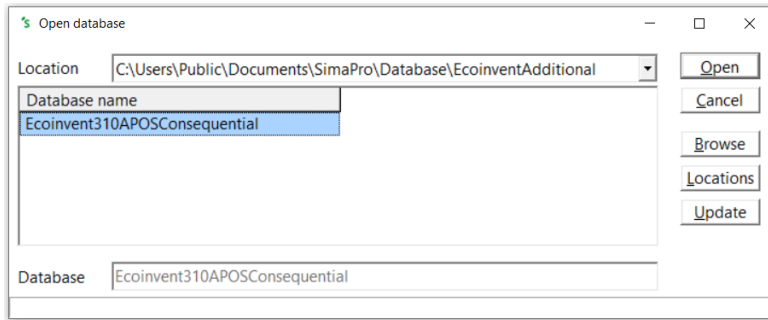
Owners of an educational Classroom license do not have "local server" database access. You can request a temporary single-user license via support@simapro.com to do the import locally. We will then also provide further instructions.

2. Check if the database you want to update is open in SimaPro (for example, the Professional database). The database name is found in top left corner of the SimaPro window. If the database is not open, go to File > Open SimaPro Database and select the database you want to update (usually, this is the database you work in).
3. Go to File > Import SimaPro Database. Click "Yes" to continue.

- The "Import SimaPro Database" dialogue box will appear:

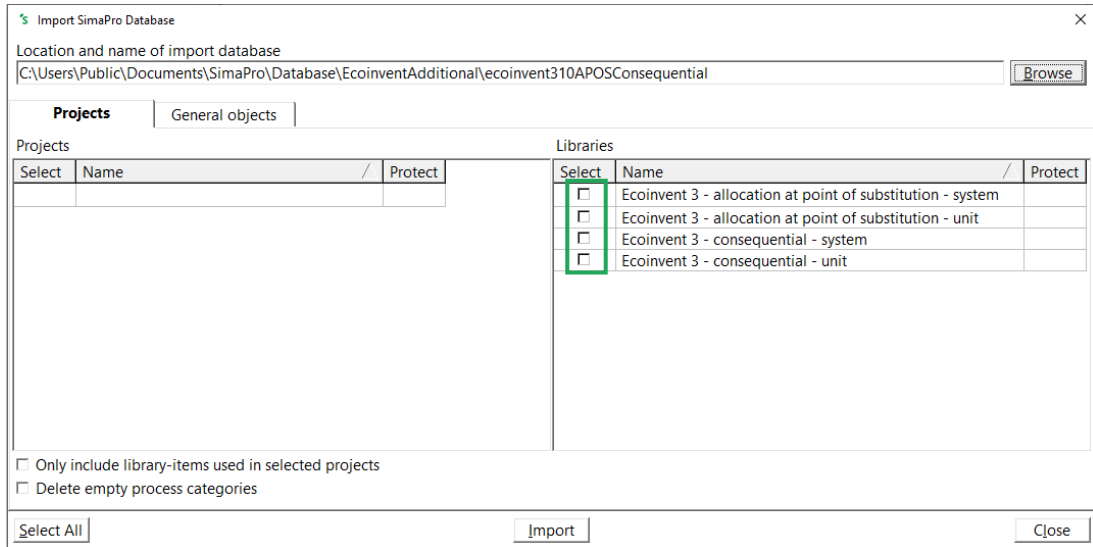


- Click "Browse". The "Open database" dialogue box will appear. Select "Ecoinvent310APOSConsequential" and click "Open".

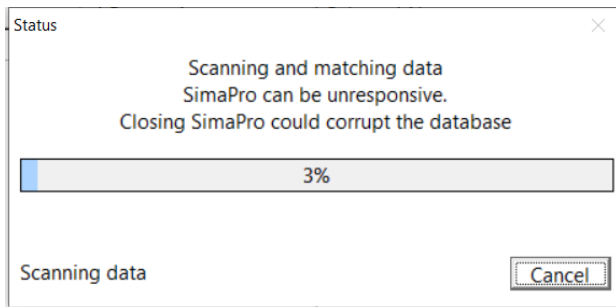


If you do not see the "Ecoinvent310APOSConsequential" database, click "Browse" to go to the directory where you installed the database and click "OK". Then select "Ecoinvent310APOSConsequential" and click "Open".

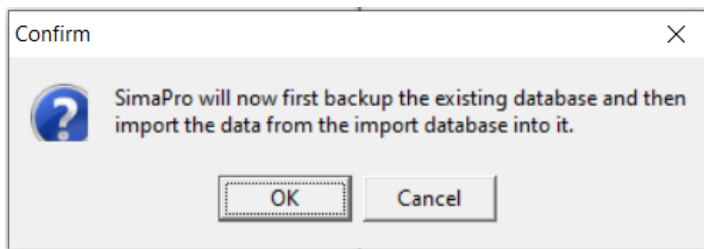
- Select the libraries you want to import (for example, only APOS or Consequential) and then "Yes" to confirm. If you wish to import all, you can click 'Select All' instead.



- Next, click "Import".
- The data will be scanned and an overview will be generated of all the data that will be added or replaced. We recommend that you save (store) this overview. Please note that this scanning process may take some time so please wait patiently.

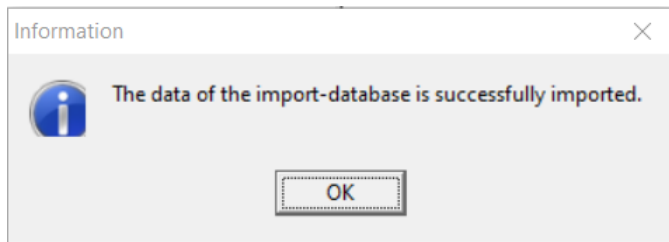


- Click "OK" to start the import process. Before data importing starts, the program will prompt you to make a backup.

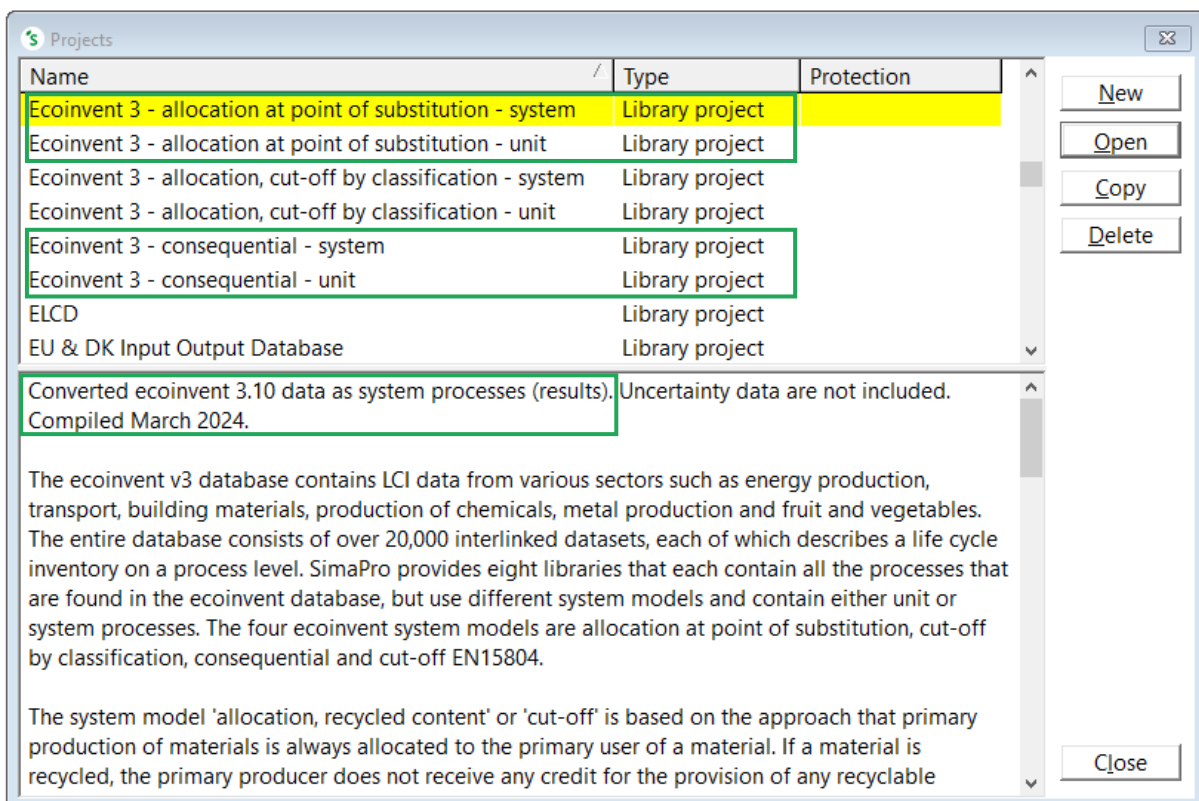


After clicking "OK", select the folder you want the save to backup file in (the default location is C:\Users\User Name\Documents\SimaPro\Backup). **Note:** if you click "Cancel", the import procedure is stopped.

- The library data in the “Ecoinvent310APOSConsequential” database will now be imported into your working database. **This step can take a lot of time (a few hours depending on the size of the database) especially when it reaches 96%. SimaPro may seem unresponsive even when the update appears to be finished so please be patient as forcing SimaPro to shut down may risk database damage.** For users with multi-user license, see the update tips in step 1 above (Box 2).
- Once you see the following screen, the database has been successfully imported.



You have now finished the import procedure and you should see the ecoinvent 3.10 APOS and Consequential data libraries in your list of projects:



Repeat the procedure for any other database(s) where you want to work with this data library.

Appending substances after importing data

We strongly recommend that you append substances every time you import data libraries. If you do not do this, mismatches between life cycle inventory and impact assessment data may occur, leading to incorrect LCA results. To do that go to General data > Substances and click "Append". Click "Load" and browse to the location of the most recent Professional or (Full)Update database to select the relevant append file (the default location is C:\Users\Public\Documents\SimaPro\Database and the file name is AppendSubstances960.xlsx). Finally, click "Append". Once the final confirmation is shown and an option to make a backup file appears, the substances will be appended. Please note that this step may also take some time.

Note: If nothing is found to be appended eventually, then it is fine and your data is up to date.

Database management tips

Once the "Ecoinvent310APOSConsequential" database is successfully imported, you can delete it with Windows Explorer to free up disk space. Please first make sure that there is no project created in that database to avoid deleting the database by accident. In addition, you can also delete the installer (SetupEcoinvent310-APOSConsequential.exe).

5 Updating obsolete links in your projects to ecoinvent 3.10 APOS & consequential (optional)

Optional step if you already had an earlier version of ecoinvent consequential

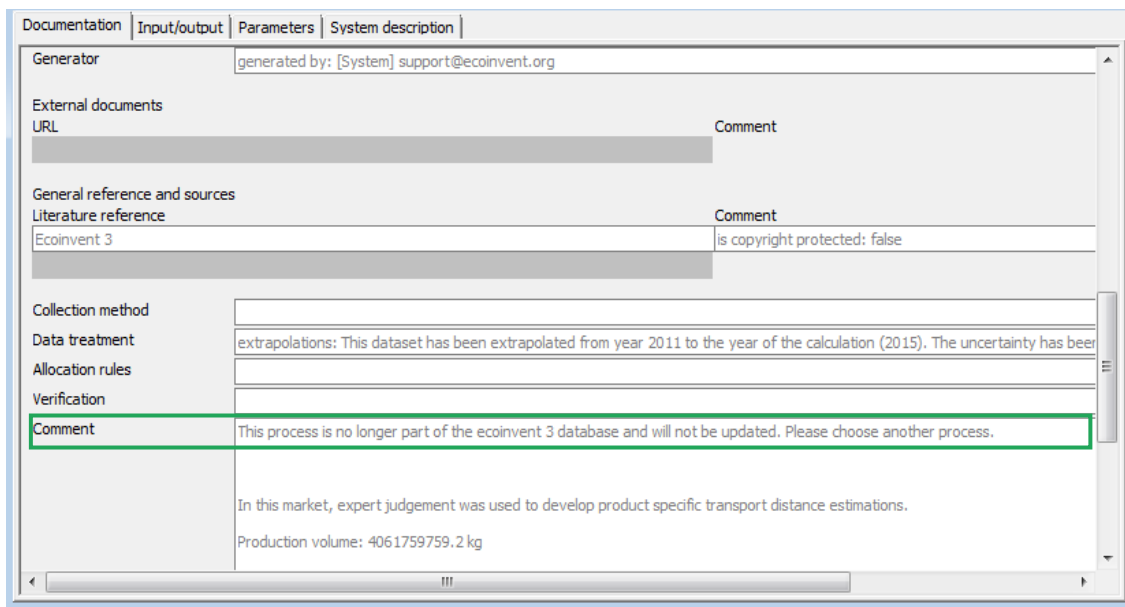
Section 5 is only applicable for users who were already using an older version of the ecoinvent APOS and consequential library and have now updated to version 3.10. If you have a fresh SimaPro 9.6 installation, then you can skip this step.

Since the ecoinvent 3.9.1 (or older) library will be replaced by the updated 3.10 library, the majority of links will be updated automatically to ecoinvent 3.10. However, several processes from may no longer be supported and are deemed obsolete.

How can I tell which processes are now obsolete?

The quickest way to review the obsolete processes is by checking the 'Obsolete' sub-categories in the ecoinvent 3.10 processes for material, energy, transport, etc. (Inventory > Processes > Material > Others > Obsolete). In the Documentation tab of these processes, the Comment field states that the correspondence process is no longer part of the ecoinvent 3 database (see screenshot below). If you select any of those processes and click on 'Used by', you will get an overview of the projects which are using the selected obsolete process.

In addition, if you calculate a process or product stage that is or contains an obsolete process, you will get a warning message. The warning message indicates which process(es) are obsolete. You can then replace them using the replacement files (if possible) or manually.



Considering that you may have used some of these obsolete processes in your projects, replacement file is available to switch obsolete links in your project from ecoinvent 3.9.1 (or older) to the updated processes in ecoinvent 3.10 in a fast and easy way. The following replacement files are available and can be found in C:\Users\Public\Documents\SimaPro\Database:

- Replace EI 3.x to 3.10 APOS library.xlsx
- Replace EI 3.x to 3.10 Consequential library.xlsx

Please note that using the replacement files **does not** replace all obsolete processes. Some processes are disaggregated into more specific products or regions. In these specific cases, you should assume and decide yourselves which activity is the best replacement. SimaPro will generate a warning when you make a calculation and finds that an obsolete process is still being used in your model. In that case, you need to manually replace the process with a process that is more suitable.

Obsolete processes not included in the replacement files

Please review the spreadsheet [Obsolete Processes without Replacement ecoinvent 3.9.1 to 3.10](#) to check the reason why the ecoinvent 3.9.1 activity does not exist in ecoinvent 3.10 anymore.

Tips in updating the obsolete links

It is recommended to **first use the replacement files to replace as many links as possible**. After that, if you receive a message while calculating in SimaPro that your model includes obsolete processes, you can replace those manually. Please refer to [section 5.1](#) and [section 5.2](#) below for further instructions.

5.1 Using the replacement files

Follow the next steps for replacing the obsolete links in your project using one of the replacement files. You can also refer to [this video](#) for general instructions on using the tool: Projects to Libraries Links Manager.

1. Open a project in your updated database. This can be any project.
2. Go to Tools > Projects to Libraries Links Manager.
3. Select the project(s) of which you want to change links (press Ctrl-A to select all projects and Ctrl-Shift-A to deselect). You can use the filter to select project by (part of the) name.
4. Select the ecoinvent libraries where you want to replace the links.

Note: make sure that these libraries are also selected in the Libraries section in SimaPro.

5. Click "Scan".
6. View the links found by clicking on the tab "Links".
7. Click on the "Import replacements" button.
8. Select the appropriate Replacement file which can be found in C:\Users\Public\Documents\SimaPro\Database\ and click "Open".
9. Check the links which are going to be replaced in the column "Replace name".

Note: It is possible that there are no replacements found. That means that projects you selected do not contain links that can be replaced using the replacement files. Nevertheless, there may still be some links that need to be replaced manually.

10. Store your links in order to be able to check afterwards. It is also possible to add new replacement links yourself.
11. Click "Replace" to replace the links to the chosen library. You will get a message how many links are replaced to the chosen library.

5.2 Manual replacement

Once you determine that your project(s) still contain obsolete links, you can replace these manually by selecting an alternative process in the relevant process or product stages records. You can also use the Projects to Libraries Links Manager to manually replace multiple links that were not replaced using replacement files (please also refer to [this video](#) for an example).

1. Go to Tools > Projects to Libraries Links Manager.
2. Select the ecoinvent libraries where you want to replace the links.

Note: make sure that these ecoinvent libraries are also selected in the Libraries section in SimaPro.
3. Click "Scan".
4. View the links found by clicking on the tab Links. The column "Child name" shows the original links.
5. Double click any of the empty cells you want to replace under the column "Replace name".
6. A dialogue box will open in which you can choose an alternative link in the preferred library. Use the function "Show as list" on the right-hand side of the screen to list all links. Filter the links from the preferred library by entering the suffix of that library in the filter box at the bottom of your screen.
7. Choose the preferred link and click "Select".
8. You will get a message: 'Links referencing the same product. Use the selected replacement for them too?' These are the same links which are used in different projects or within projects. Choose "Yes" to replace all links. If you click "No" only the selected link will be replaced.
9. Click "Replace" to replace the links. If you want to replace all links at once and you did not finish the work, you can export the previously selected links to Excel and import them at a later stage by clicking "Export replacements" and saving your replacement file.

You have now finished the update procedure! Repeat for any other database where you want to import ecoinvent 3.10 APOS and Consequential into.

6 Contact Us

Please [contact us](#) or your [local partner](#) if you have questions about the import procedure. For content-related inquiries, please send your questions to ecoinvent directly at support@ecoinvent.org.