

Calculate -> 

Compare multiple processes

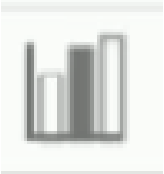
- Option 1: Select processes that are in same category
- Option 2: Select processes that are in **different** categories

Option 1: Select processes that are in same category

Select multiple processes to compare by making them blue

(In windows ctr + click)

Press the compare button



File Edit Calculate Tools Window Help

Home Search Add New Open Recent Save Print Cut Copy Paste Undo Redo A+B = D+A 42 Compare

LCA Explorer

Goal and scope
Description
Libraries
Inventory
Processes
Product stages
System description
Waste types
Parameters
Impact assessment
Methods
Calculation setups
Interpretation
Interpretation
Document Links
General data
Literature references
Substances
Units
Quantities

Processes

- Material
 - .Key LCIs Idemat Dynamic
 - .Proxi data, chemicals, Clas
 - .Scope 1 and downstream
 - .tests
- Agricultural
 - Animal feed
 - Animal production
 - others
- Plant oils
- Plant production
- Ceramics
- Chemicals
- Construction
 - Bricks
 - Bitumen and asphalt
 - Bricks
 - Concrete
 - Insulation
 - others
 - Paints
- Electronics
- Fibers
- Food
 - Food new
- Fuels
- Glass
- Laminates
- Metals
 - Alloys
 - Ferro
 - Cast irons

Filter on and ☐ or ☐

Name	Unit	Waste type	Project
A.010.04.101.230701 Crude palm kernel oil refined	kg	.R compost	IDEMAT Dynamic
A.010.04.102.230701 Palm kernel oil - crude from trees	kg	.R compost	IDEMAT Dynamic
A.010.04.103.230701 Potatoe starch DE	kg	.R compost	IDEMAT Dynamic
A.010.04.104.230701 Potatoe DE	kg	.R compost	IDEMAT Dynamic
A.010.04.105.230701 Rape cake Europe	kg	.R compost	IDEMAT Dynamic
A.010.04.106.230701 Soybean meal at coast Brazil	kg	.R compost	IDEMAT Dynamic
A.010.04.107.230701 Soybean meal at coast USA	kg	.R compost	IDEMAT Dynamic
A.010.04.108.230701 Soybean oil - refined at coast Brazil	kg	.R compost	IDEMAT Dynamic
A.010.04.109.230701 Soybean oil - refined at coast USA	kg	.R compost	IDEMAT Dynamic
A.010.04.110.230701 Soybeans grain - harvested and transported to coas...	kg	.R compost	IDEMAT Dynamic
A.010.04.111.230701 Soybeans grain - harvested and transported to coas...	kg	.R compost	IDEMAT Dynamic
A.010.04.112.230701 Soybean oil crude - degummed at coast Brazil	kg	.R compost	IDEMAT Dynamic
A.010.04.113.230701 Soybean oil, crude - degummed at coast USA	kg	.R compost	IDEMAT Dynamic
Z.010.04.105.230701 Rape cake Europe	kg	.R compost	IDEMAT Dynamic
Z.010.04.106.230701 Soybean meal at coast Brazil	kg	.R compost	IDEMAT Dynamic
Z.010.04.107.230701 Soybean meal at coast USA	kg	.R compost	IDEMAT Dynamic
Z.010.04.112.230701 Soybean oil crude - degummed at coast Brazil	kg	.R compost	IDEMAT Dynamic
Z.010.04.113.230701 Soybean oil, crude - degummed at coast USA	kg	.R compost	IDEMAT Dynamic

Eco-costs midpoints calculated from Probas, Umwelt Bundesambt

Option 1: Select processes that are in same category

Verify that the processes you want to compare are under products

Hit calculate (bottom right)

New calculation setup

General

Parameter sets

Analyze groups

Chart options

Calculation function

☐ Network

☐ Tree

☐ Analyze

☒ Compare

☐ Uncertainty analysis

Switches

☐ Inventory per sub-compartment

☐ Exclude infrastructure processes

☐ Exclude long-term-emissions

Method

ecocosts 2025 V2.1 V1.00 / eco-costs 2025

Product	Amount	Unit	Project	Comment
A.010.04.103.230701 Potatoe starch DE	1	kg	IDEMAT Dynamic	
A.010.04.104.230701 Potatoes DE	1	kg	IDEMAT Dynamic	
A.010.04.105.230701 Rape cake Europe	1	kg	IDEMAT Dynamic	
A.010.04.106.230701 Soybean meal at coast Brazil	1	kg	IDEMAT Dynamic	
A.010.04.107.230701 Soybean meal at coast USA	1	kg	IDEMAT Dynamic	
A.010.04.108.230701 Soybean oil - refined at coast Brazil	1	kg	IDEMAT Dynamic	
A.010.04.109.230701 Soybean oil - refined at coast USA	1	kg	IDEMAT Dynamic	
A.010.04.110.230701 Soybeans grain - harvested and transported to coas...	1	kg	IDEMAT Dynamic	
Add line				

Current library

Suffix

Replacing library

Suffix

Help

Option 1: Select processes that are in same category

There are two tabs that are interesting: **“characterization”** (midpoints) and **“single score”** (eco-costs)

C:\Users\rober\Downloads\simaprotud2025RevA7_\simaprotud2025comp - 250528\Professional\calculations

File Edit Calculate Tools Window Help

Compare processes

Impact assessment Inventory Process contribution Setup Checks (40) Product overview

Characterization Damage Assessment Normalization Weighting Single score

Skip categories Never

☒ Default units
☒ Exclude long-term emissions
☒ Per impact category

Select	Impact category	Unit	A.010.04.103. 230701	A.010.04.104. 230701	A.010.04.105. 230701 Rape	A.010.04.106. 230701	A.010.04.107. 230701	A.010.04.108. 230701	A.010.04.109. 230701	A.010.04.110. 230701
☒	Total	Euro	0,126	0,01	0,154	1,63	0,0949	1,7	0,0995	1,57
☒	Carbon footprint	Euro	0,0936	0,00598	0,0286	0,953	0,064	0,992	0,0672	0,913
☒	Acidification	Euro	0,00385	0,000385	0,00104	0,00363	0,0028	0,00381	0,00294	0,00212
☒	Eutrophication terrest. plus fresh water	Euro	0,00359	0,000266	0,121	0,00821	0,00645	0,00857	0,00674	0,00681
☒	Photochemical ozone formation	Euro	0,00349	0,000223	0,00117	0,00824	0,00669	0,00859	0,00698	0,0041
☒	Particulate matter	Euro	0,000586	3,9E-5	0,000367	0,00259	0,00054	0,0027	0,000566	0,00247
☒	Human toxicity, cancer	Euro	4,14E-5	3,1E-6	6,91E-6	2,63E-5	1,92E-5	2,75E-5	2,01E-5	1,91E-5
☒	Human toxicity, non-cancer	Euro	0,000334	6,07E-5	5,75E-5	0,000526	0,000346	0,000552	0,000365	0,00049
☒	Ecotoxicity, freshwater	Euro	0,00731	0,00143	9,92E-5	0,000553	0,000376	0,000577	0,000392	0,000501
☒	Metals scarcity	Euro	0,000163	5,79E-6	3,45E-5	0,000243	8E-5	0,000255	8,53E-5	0,00021
☒	Plastic soup	Euro	7,04E-5	2,76E-6	0,00026	0,00231	0,000347	0,0024	0,000361	0,00226
☒	Use fuels (uranium + tra. fuels)	Euro	0,0127	0,00163	0,00176	0,0189	0,0132	0,0198	0,0139	0,0176
☒	Biodiversity & Land use change	Euro	4,72E-5	8,91E-6	9,11E-6	0,631	5,89E-5	0,657	6,13E-5	0,618
☒	Baseline Water Stress	Euro	1,3E-7	5,11E-9	4,81E-7	4,27E-6	6,41E-7	4,44E-6	6,67E-7	4,18E-6
☒	Landfill	Euro	1,2E-12	4,71E-14	4,44E-12	3,94E-11	5,91E-12	4,1E-11	6,15E-12	3,86E-11

Ensure these are always checked when possible

Next slides:

Option 2: Select processes that are in **different** categories

Option 2: Select processes that are in different categories

1 . Select calculation setups

2. click new

The screenshot shows the LCA Explorer software interface. The left sidebar contains a tree view with categories: Goal and scope, Inventory, Impact assessment, Interpretation, and General data. The 'Calculation setups' item under 'Impact assessment' is selected and highlighted in blue. A red arrow points from the text '1 . Select calculation setups' to this item. The main area displays a table of calculation setups. The table has two columns: 'Name' and 'Project'. The 'Project' column for all rows is 'calculations'. The 'Name' column lists various materials and processes. A red arrow points from the text '2. click new' to a 'New' button in the bottom right corner of the interface.

Name	Project
comp	calculations
glassfibre	calculations
glassfibre and wool	calculations
IdematDynamic250507	calculations
limestone	calculations
olifins in EI	calculations

Option 2: Select processes that are in different categories

3. Give the setup any name

4. click add line

5. add desired product

6. repeat for all products desired

The screenshot shows the 'New calculation setup' dialog box with the following fields and options:

- Name:** compare_example
- Comment:**
- Calculation function:** ☐ Network, ☐ Tree, ☐ Analyze, ☒ Compare, ☐ Uncertainty analysis
- Switches:** ☐ Inventory per sub-compartment, ☐ Exclude infrastructure processes, ☐ Exclude long-term-emissions
- Method:** ecocosts 2025 V2.1 V1.00 / eco-costs 2025
- Product:** Add line
- Current library:**
- Replacing library:**
- Suffix:**

Annotations with red arrows point to the 'Name' field (3), the 'Add line' button (4), and the 'Compare' radio button (5).

An inset window titled 'Select a product/process or product stage' is shown on the right, displaying a tree view of categories and a list of products. The 'Heat' category is selected, and the product 'B.050.01.101.230701 Heat - General Industry' is highlighted in the list. The list also includes other heat products and a summary of the selection.

Name	Unit	Was
B.050.01.101.230701 Heat - General Industry	MJ	
B.050.01.102.230701 Heat - Domestic from heat pump	MJ	
B.050.01.103.230701 Heat from natural gas - condensing low NOx - incl. ...	MJ	
B.050.01.104.230701 Heat from anthracite coal 30.7 MJ/kg - incl. combus...	MJ	
B.050.01.105.230701 Heat from coal bituminous 26.4 MJ/kg - incl. comb...	MJ	
B.050.01.106.230701 Heat from heavy oil for chemical processes - incl. co...	MJ	
B.050.01.107.230701 Heat from natural gas for chemical processes - incl. ...	MJ	
Z Process steam from Heavy fuel oil, heat plant, consumption mix, at pla...	MJ	
Z Process steam from natural gas, heat plant, consumption mix, at plant, ...	MJ	

50% copy B.050.01.107.230701 Heat from natural gas for chemical processes - incl. combustion CO2 plus 50% copy B.050.01.106.230701 Heat from heavy oil for chemical processes - incl. combustion CO2
delft University of Technology

2527 items 1 item selected (of 9 items)

Option 2: Select processes that are in different categories

1 . Save the setup

2. click calculate

New calculation setup

General

Parameter sets

Analyze groups

Chart options

Name

compare_example

Comment

Calculation function

☐ Network

☐ Tree

☐ Analyze

☒ Compare

☐ Uncertainty analysis

Switches

☐ Inventory per sub-compartment

☐ Exclude infrastructure processes

Method

ecocosts 2025 V2.1 V1.00 / eco-costs 2025

Product	Amount	Unit	Project	Comment
A.100.34.111.230701 NiFe 50 50	1	kg	IDEMAT Dynamic	
A.100.34.108.230701 NiCr20TiAl	1	kg	IDEMAT Dynamic	
A.050.04.104.230701 Computer laptop - 15 inch display	1	p	IDEMAT Dynamic	
Add line				

Current library

Suffix

Replacing library

Suffix

Help

Calculate

Close

Confirm

Data have been changed. Save?

Yes

No

Cancel