




Swiss Centre for Life Cycle Inventories










The ecoinvent database




Swiss Centre For Life Cycle Inventories







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ecoinvent database (version 2.1)




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- More than 4000 generic LCI process datasets on energy supply, resource extraction, material supply, chemicals, metals, agriculture, waste management services, and transport services
- 2'000 customers use ecoinvent data in more than 40 countries
- Online access to LCI and LCIA results for all datasets
- Data are embedded and/or importable in all major LCA software tools
- Independent quality assurance mechanism
- Continuously maintained
- International in scope, including e.g. data on US agriculture, worldwide sourcing of raw materials and production of electronics in Asia





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ecoinvent version 3 (release 2011): New DB structure. Why and how?




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- Increased flexibility
 - Increase modelling options
 - Product properties (LCC, MFA)
 - Market modelling (consequential, attributional)
- Increased ease of maintenance
 - Geography and time as parameters
 - Enable more frequent updates
- Completeness
 - Supply-use structure
 - Global and national production volumes





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ecoinvent version 3 (release 2011): The elements of the database




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- *ecoSpold 2 LCI data format* (Available in public beta 4 with converter from ecoSpold 1. Implemented successfully in ecoEditor and v3 database software. Converter to ILCD expected this month.)
- New *Impact Assessment data format* (First internal draft)
- New *Data Quality Guidelines* (Available in public draft)
- *ecoEditor 2* free software for creating, editing and uploading datasets (Beta1 released in January 2010, full version by April 2010)
- International *Editorial Board* and *ecoReview* software (Effective from March 2010)
- New *ecoCalc* to manage data and perform calculations
- New *web-interface* with improved search, talk and history pages (2011)





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Increased reach and detail




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- New data collection projects for version 3:
 - Agriculture and horticulture
 - Biomass production and conversion for energy
 - Food industry
 - Wood
 - Pulp and paper
 - Metal markets
 - Building materials
 - Chemicals
 - Crude oil to plastics
 - Freshwater
 - Electricity and carbon storage
 - Waste treatment
 - Packaging, transport, trade and product losses
 - USA, Canada, Asia, South Africa, South America
- Editors to stimulate data collection within their areas

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The ecoinvent offer to national database initiatives

- National initiative is responsible and retains the right to license the collected data to third parties, while providing the collected data for publication in the ecoinvent database.
- ecoinvent provides training
- ecoinvent provides the necessary infrastructure for validation and publishing of the data as part of the ecoinvent database.
- Free ecoinvent licenses to all active in the national initiative.
- Continuous financial support / sharing of license income
- Long-term partnerships - No binding agreements



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Thanks for your attention!

www.ecoinvent.org



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