
List of Contents of ecoinvent Data v2.0

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New and updated LCI datasets in ecoinvent Data v2.0

electricity mixes:

- New country mixes: Brazil, China, Japan (including LNG supply), USA, EU 27, Bulgaria, Romania
- Update of EU country, network and company mixes

power plants:

- update of criteria pollutants' emissions of eastern European coal power plants (CZ, HU, PL, SK)
- China coal and nuclear fuel cycles
- US coal, nuclear and natural gas fuel cycles
- Brazil hydroelectric power plant
- Japanese natural gas power plant and LNG supply
- crystalline photovoltaic (PV) power plants update, extension to thin film PV (CIS, CdTe, amorphous silicon, ribbon-silicon) and country specific PV electricity production

Small scale heat and power production:

- stirling cogen unit
- fuel cells
- microturbines
- absorption chiller

renewable fuels:

- ethanol from biomass (BR: sugar cane, CN: sweet sorghum, US: corn, RER: rye, CH: potatoes, sugar beets, grass, whey)
- biogas from agricultural (co-)digestion, bio-waste, grass, sewage sludge, whey
- synthetic gas and methanol, from wood (CH)
- plant oil methyl ether (XME) from palm oil (MY), soybean oil (BR), rape oil (RER, CH), vegetable oil
- heat and electricity from waste incineration and biogas
- transport services based on bio-fuels (lorries, private cars)

Renewable materials:

- several tropical wood species (of West-African, Southeast Asian, and South-American provenience)
- cotton, jute and others

Agricultural products and processes:

- cotton, potatoes, rape seed, rice, sheep husbandry, wheat in US
- several agricultural products grown in France, Germany and Spain

Transport services:

- Euro 3 Euro 4 and Euro 5 and current average performance of private cars (diesel and gasoline) and lorries

Electronics (manufacturing and use):

- devices (desktop computer, laptop computer, printer)
- screens (CRT, LCD)
- cables
- drives
- batteries
- toners
- printed wiring boards
- microchips
- further components

Electronics (recycling and waste management):

- dismantling
- waste treatment
- resource recovery

Chemicals:

- petrochemical solvents (ethanol, cyclohexane, heptane, 1-propanol, 2-butanol, formic acid, monochlorobenzene and others)
- chemicals used in electronics and photovoltaics manufacture (tetrachlorosilane, lithium, sodium tetrafluoroborate, sodium hypophosphite, trifluoromethane, trimethyl borate, and others)

Mechanical engineering, metals processing:

- chipping of steel, chromium steel, cast iron, aluminium and brass (drilling, milling, turning)
- chipless shaping (impact extrusion (cold, warm and hot) of steel and aluminium, deep drawing of steel, laser machining)
- compressed air generation and supply (small / large; three pressure levels)

Building materials and components:

- windows, doors, comfort ventilation systems (single and multiple family dwellings, centralised and decentralised systems)

New impact assessment method datasets in ecoinvent Data v2.0:

- Ecological footprint (Global)
- EDIP 2003
- Cumulative Exergy Demand (Global)
- TRACI (USA)

Most existing LCIA methods are extended to cover elementary flows newly introduced with ecoinvent data v2.0

Disclaimer

This list of contents of new datasets in the ecoinvent Data v2.0 is indicative. Changes in contents may occur without notice. The ecoinvent Centre does not assume any warranty obligations by publishing this list; in particular regarding the actual delivery of datasets listed in this document with ecoinvent data v2.0.