ESU-services

fair consulting in sustainability

Documentation of changes implemented in ecoinvent Data v2.2+

Authors

Niels Jungbluth

ESU-services Ltd.

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ESU-services Ltd.	Kanzleistrasse 4	CH - 8610 Uster
Rolf Frischknecht	T +41 44 940 61 91	frischknecht@esu-services.ch
Niels Jungbluth	T +41 44 940 61 32	jungbluth@esu-services.ch
Sybille Büsser	T +41 44 940 61 35	buesser@esu-services.ch
Karin Flury	T +41 44 940 61 02	flury@esu-services.ch
René Itten	T +41 44 940 61 38	itten@esu-services.ch
Matthias Stucki	T +41 44 940 67 94	stucki@esu-services.ch
www.esu-services.ch	F +41 44 940 61 94	

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Authors	Niels Jungbluth ESU-services Ltd., fair consulting in sustainability Kanzleistr. 4, CH-8610 Uster www.esu-services.ch Phone +41 44 940 61 32, Fax +41 44 940 61 94 email: jungbluth@esu-services.ch
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1 Description of corrected errors

This report describes errors that have been found in datasets which were provided by ESU-services Ltd. for ecoinvent data v2.2. These errors shall be corrected with the next version of the ecoinvent database. The corrected XML file can be downloaded on http://www.esu-services.ch/projects/ecoinventdatenbank/ecoinvent-reports/.

The following errors have been found in datasets related to oil products (Jungbluth 2007).

1.1 Crude oil exploration

Several emissions were underestimated by a factor 10-100 in GB crude oil exploration. This affects crude oil and natural gas production inventories in this country.

- Crude oil und natural gas, GB

The electricity use for the production plant crude oil onshore was overestimated by a factor of about 10.

- production plant crude oil, onshore

The emission factor for ozone depleting substances is documented in the ecoinvent Bericht 6-IV on page 82. This factor should have been applied for offshore exploration, but by error it was also used for some onshore exploration activities. Thus, these emissions were deleted in the datasets for crude oil exploration in RU, RAF, RME.

- Crude oil, at production onshore/RME U
- Crude oil, at production onshore/RU U
- Crude oil, at production onshore/RAF U

1.2 Crude oil refinery

For all coproducts, the water emissions to the ocean sub-compartment had the same allocation factor as the emissions to the river sub-compartment except for the emissions following the silver ion (an emission only to the river sub-compartment): sodium, ion; strontium; sulfate; sulfide; suspended solids, unspecified; t-butyl methyl ether; TOC, total organic carbon; toluene; vanadium, ion; xylene and zinc,ion.

These allocation factors for water emissions were corrected.

The XML with the new multi-output process cannot be directly imported to SimaPro.

References

Jungbluth 2007 Jungbluth N. (2007) Erdöl. In: *Sachbilanzen von Energiesystemen: Grundlagen für den ökologischen Vergleich von Energiesystemen und den Einbezug von Energiesystemen in Ökobilanzen für die Schweiz*, Vol. ecoinvent report No. 6-IV, v2.0 (Ed. Dones R.). Paul Scherrer Institut Villigen, Swiss Centre for Life Cycle Inventories, Dübendorf, CH retrieved from: www.ecoinvent.org.