



Changelog

GaBi Service Pack
Upgrade 29 to 30

July 2016



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Introduction

GaBi Service Packs comprise a collection of updates, enhancements or fixes to the following GaBi objects: flows, quantities, units, contacts, interpretations and references/citations. This document provides detailed information on what will be changed/added/deleted with the installation of the Service Packs.

If you need further information or if special questions should arise which have not been adequately described in this document, please feel free to send an e-mail to support@gabi-software.com.

1. New environmental quantities

| Folder | Quantity |
|--------------------------------------|---|
| CML 2016 | CML2001 - Jan. 2016, Abiotic Depletion (ADP elements) CML2001 - Jan. 2016, Abiotic Depletion (ADP fossil) CML2001 - Jan. 2016, Acidification Potential (AP) CML2001 - Jan. 2016, Eutrophication Potential (EP) CML2001 - Jan. 2016, Freshwater Aquatic Ecotoxicity Pot. (FAETP inf.) CML2001 - Jan. 2016, Global Warming Potential (GWP 100 years) CML2001 - Jan. 2016, Global Warming Potential (GWP 100 years), excl biogenic carbon CML2001 - Jan. 2016, Global Warming Potential (GWP 100), excl bio. C, incl LUC, no norm/weight CML2001 - Jan. 2016, Global Warming Potential (GWP 100), incl bio. C, incl LUC, no norm/weight CML2001 - Jan. 2016, Global Warming Potential (GWP 100), Land Use Change only, no norm/weight CML2001 - Jan. 2016, Human Toxicity Potential (HTP inf.) CML2001 - Jan. 2016, Marine Aquatic Ecotoxicity Pot. (MAETP inf.) CML2001 - Jan. 2016, Ozone Layer Depletion Potential (ODP, steady state) CML2001 - Jan. 2016, Photochem. Ozone Creation Potential (POCP) CML2001 - Jan. 2016, Terrestrial Ecotoxicity Potential (TETP inf.) |
| ILCD/PEF Recommendation v1.09 | Acidification midpoint (v1.09) Climate change midpoint, excl biogenic carbon (v1.09) Climate change midpoint, incl biogenic carbon (v1.09) Ecotoxicity freshwater midpoint (v1.09) |

| | |
|-------------------------------|--|
| | <p>Eutrophication freshwater midpoint (v1.09)</p> <p>Eutrophication marine midpoint (v1.09)</p> <p>Eutrophication terrestrial midpoint (v1.09)</p> <p>Human toxicity midpoint, cancer effects (v1.09)</p> <p>Human toxicity midpoint, non-cancer effects (v1.09)</p> <p>Ionizing radiation midpoint, human health (v1.09)</p> <p>Ozone depletion midpoint (v1.09)</p> <p>Particulate matter/Respiratory inorganics midpoint (v1.09)</p> <p>Photochemical ozone formation midpoint, human health (v1.09)</p> <p>Resource depletion water, midpoint (v1.09)</p> <p>Resource depletion, mineral, fossils and renewables, midpoint (v1.09)</p> |
| USEtox 2.1 | <p>USEtox 2.01, Ecotoxicity (recommended and interim)</p> <p>USEtox 2.01, Ecotoxicity (recommended only)</p> <p>USEtox 2.01, Human toxicity, cancer (recommended and interim)</p> <p>USEtox 2.01, Human toxicity, cancer (recommended only)</p> <p>USEtox 2.01, Human toxicity, non-canc. (recommended and interim)</p> <p>USEtox 2.01, Human toxicity, non-canc. (recommended only)</p> |
| NF EN 15804 Quantities | <p>NF EN 15804, Abiotic depletion potential (elements), complementary factors</p> <p>NF EN 15804, Air pollution</p> <p>NF EN 15804, Water pollution</p> |
| Water | <p>AWARE, high characterization factor for unspecified water</p> <p>AWARE, low characterization factor for unspecified water</p> <p>AWARE, OECD+BRIC average for unspecified water</p> <p>WSI, high characterization factor for unspecified water</p> <p>WSI, low characterization factor for unspecified water</p> <p>WSI, OECD+BRIC average for unspecified water</p> |

2. Changed characterization factors

| Flow | Folder | Quantity | Service pack 29 factor | Service pack 30 factor |
|-----------|----------------------------|---|------------------------|------------------------|
| Radon-222 | ecoinvent long-term to air | ReCiPe 1.08 Midpoint (E) - Ionising radiation | 1,14E-03 | 1,14E-06 |
| Radon-222 | ecoinvent long-term to air | ReCiPe 1.08 Midpoint (H) - Ionising radiation | 1,14E-03 | 1,14E-06 |

| | | | | |
|---------------------------|--------------------------------------|---|----------|------------|
| Radon-222 | ecoinvent long-term to air | ReCiPe 1.08 Midpoint (I) - Ionising radiation | 1,14E-03 | 1,14E-06 |
| Phosphorus | Inorganic emissions to sea water | Eutrophication freshwater midpoint (v1.06) | - | 1,00E-200 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | EDIP 1997, Vanadium | 0,0094 | 0,00526541 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001 - Apr. 2013, Abiotic Depletion (ADP elements) | 4,06E-07 | 4,05E-09 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | Anthropogenic Abiotic Depletion Potential (AADP), TU Berlin | 8,21E-05 | 4,60E-05 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001 - Dec. 07, Abiotic Depletion (ADP) | 1,09E-08 | 6,12E-09 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001 - Nov. 09, Abiotic Depletion (ADP elements) | 4,06E-07 | 4,05E-09 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001, Abiotic Depletion (ADP) | 1,09E-08 | 6,12E-09 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001 - Nov. 2010, Abiotic Depletion (ADP elements) | 4,06E-07 | 4,05E-09 |
| Vanadium ore (V2O5 0.94%) | Non renewable resources | CML2001 - Apr. 2015, Abiotic Depletion (ADP elements) | 4,06E-07 | 4,05E-09 |
| Wood, hard, standing | Renewable resources | Primary energy demand from ren. and non ren. resources (gross cal. value) | 8940 | - |
| Wood, hard, standing | Renewable resources | Primary energy demand from ren. and non ren. resources (net cal. value) | 6258 | - |
| Wood, hard, standing | Renewable resources | Primary energy from renewable resources (gross cal. value) | 8940 | - |
| Wood, hard, standing | Renewable resources | Primary energy from renewable resources (net cal. value) | 6258 | - |
| Wood, soft, standing | Renewable resources | Primary energy demand from ren. and non ren. resources (gross cal. value) | 7077,5 | - |
| Wood, soft, standing | Renewable resources | Primary energy demand from ren. and non ren. resources (net cal. value) | 4954,25 | - |
| Wood, soft, standing | Renewable resources | Primary energy from renewable resources (gross cal. value) | 7077,5 | - |
| Wood, soft, standing | Renewable resources | Primary energy from renewable resources (net cal. value) | 4954,25 | - |
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Endpoint (E) - Ionising radiation | - | 3,87E-13 |



| | | | | |
|------------------|--------------------------------------|---|---------|----------------|
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Endpoint (H) - Ionising radiation | - | 3,87E-13 |
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Endpoint (I) - Ionising radiation | - | 3,87E-13 |
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Midpoint (E) - Ionising radiation | - | 2,36E-05 |
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Midpoint (H) - Ionising radiation | - | 2,36E-05 |
| Silver (Ag110m) | Radioactive emissions to fresh water | ReCiPe 1.08 Midpoint (I) - Ionising radiation | - | 2,36E-05 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.08 Endpoint (I) - Metal depletion | 8,79 | 7,071313 85 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.08 Midpoint (I) - Metal depletion | 123 | 98,89949 44 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.08 Endpoint (E) - Metal depletion | 8,79 | 7,071313 85 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.08 Midpoint (E) - Metal depletion | 123 | 98,89949 44 |
| Uranium free ore | Uranium (resource) | I02+ v2.1 - Non-renewable energy - Midpoint | 560000 | 440656,9 08 |
| Uranium free ore | Uranium (resource) | Primary energy from non renewable resources (net cal. value) | 451000 | 440656,9 08 |
| Uranium free ore | Uranium (resource) | Primary energy from non renewable resources (gross cal. value) | 451000 | 440656,9 08 |
| Uranium free ore | Uranium (resource) | Primary energy demand from ren. and non ren. resources (net cal. value) | 451000 | 440656,9 08 |
| Uranium free ore | Uranium (resource) | Primary energy demand from ren. and non ren. resources (gross cal. value) | 451000 | 440656,9 08 |
| Uranium free ore | Uranium (resource) | UBP 2006, Ecological scarcity method | 1488300 | 1205523 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.07 Endpoint (H) - Metal depletion | 8,7945 | 7,097723 77 |
| Uranium free ore | Uranium (resource) | ReCiPe 1.07 Midpoint (H) - Metal depletion | 123 | 98,89949 44 |
| Uranium free ore | Uranium (resource) | UBP 2013, Energy resources | 1533400 | 1242054 |
| Uranium free ore | Uranium (resource) | Resource depletion, mineral, fossils and renewables, midpoint (v1.06) | - | 0,158195 83 |



| | | | | |
|-------------------------|--------------------|---|------------|------------|
| Uranium free ore | Uranium (resource) | Energy from uranium (net cal. value) [SoFi] | - | 440656,908 |
| Uranium natural (in MJ) | Uranium (resource) | Mass | 2,22E-06 | 1,83E-06 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe Midpoint (H) - Metal depletion | 0,00021984 | 0,00022527 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe Endpoint (H) - Metal depletion | 1,57E-05 | 1,60E-05 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Endpoint (H) - Metal depletion | 1,57E-05 | 1,30E-05 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Midpoint (H) - Metal depletion | 0,000219 | 0,0001809 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Endpoint (I) - Metal depletion | 1,57E-05 | 1,30E-05 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Midpoint (I) - Metal depletion | 0,000219 | 0,0001809 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Endpoint (E) - Metal depletion | 1,57E-05 | 1,30E-05 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.08 Midpoint (E) - Metal depletion | 0,000219 | 0,0001809 |
| Uranium natural (in MJ) | Uranium (resource) | CML2001 - Dec. 07, Abiotic Depletion (ADP) | 6,36E-09 | 5,25E-09 |
| Uranium natural (in MJ) | Uranium (resource) | CML2001, Abiotic Depletion (ADP) | 6,36E-09 | 5,25E-09 |
| Uranium natural (in MJ) | Uranium (resource) | I02+ v2.1 - Non-renewable energy - Midpoint | 1,24168514 | 1 |
| Uranium natural (in MJ) | Uranium (resource) | CML2001 - Nov. 09, Abiotic Depletion (ADP fossil) | 1 | 0,82600733 |
| Uranium natural (in MJ) | Uranium (resource) | UBP 2006, Ecological scarcity method | 3,3 | 3,3 |
| Uranium natural (in MJ) | Uranium (resource) | UBP 2013, Energy resources | 3,4 | 3,4 |
| Uranium natural (in MJ) | Uranium (resource) | EDIP 1997, Uranium | 1,33E-09 | 1,10E-09 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.07 Midpoint (H) - Metal depletion | 0,000219 | 0,0001809 |
| Uranium natural (in MJ) | Uranium (resource) | ReCiPe 1.07 Endpoint (H) - Metal depletion | 1,57E-05 | 1,29E-05 |

| | | | | |
|---|--------------------|---|----------|----------------|
| Uranium natural (in MJ) | Uranium (resource) | CML2001 - Apr. 2013, Abiotic Depletion (ADP elements) | 2,50E-09 | 2,07E-09 |
| Uranium natural (in MJ) | Uranium (resource) | CML2001 - Apr. 2015, Abiotic Depletion (ADP elements) | 2,50E-09 | 2,07E-09 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | I02+ v2.1 - Non-renewable energy - Midpoint | - | 332000 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.07 Endpoint (H) - Metal depletion | - | 7,457568 88 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.07 Midpoint (H) - Metal depletion | - | 103,9135 67 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Endpoint (E) - Metal depletion | - | 7,429820 02 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Endpoint (H) - Metal depletion | - | 7,429820 02 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Endpoint (I) - Metal depletion | - | 7,429820 02 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Midpoint (E) - Metal depletion | - | 103,9135 67 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Midpoint (H) - Metal depletion | - | 103,9135 67 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe 1.08 Midpoint (I) - Metal depletion | - | 103,9135 67 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe Endpoint (H) - Metal depletion | - | 7,429820 02 |
| Uranium oxide (U3O8), 332 GJ per kg, in ore | Uranium (resource) | ReCiPe Midpoint (H) - Metal depletion | - | 103,9135 67 |
| Uranium, in ground | Uranium (resource) | UBP 2006, Ecological scarcity method | 1848000 | 1488300 |
| Uranium, in ground | Uranium (resource) | UBP 2013, Energy resources | 1904000 | 1533400 |
| Uranium, in ground | Uranium (resource) | UBP, Ecological scarcity method | 560000 | 451000 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.07 Endpoint (H) - Metal depletion | - | 8,7945 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.07 Midpoint (H) - Metal depletion | - | 122,5423 29 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Endpoint (E) - Metal depletion | - | 8,761776 55 |

| | | | | |
|--------------------|--------------------|---|---|----------------|
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Endpoint (H) - Metal depletion | - | 8,761776 55 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Endpoint (I) - Metal depletion | - | 8,761776 55 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Midpoint (E) - Metal depletion | - | 122,5423 29 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Midpoint (H) - Metal depletion | - | 122,5423 29 |
| Uranium, in ground | Uranium (resource) | ReCiPe 1.08 Midpoint (I) - Metal depletion | - | 122,5423 29 |
| Uranium, in ground | Uranium (resource) | ReCiPe Endpoint (H) - Metal depletion | - | 8,761776 55 |
| Uranium, in ground | Uranium (resource) | ReCiPe Midpoint (H) - Metal depletion | - | 122,5423 29 |
| Uranium, in ground | Uranium (resource) | Resource depletion, mineral, fossils and renewables, midpoint (v1.06) | - | 0,196014 |

3. Renaming of flows

We found some inconsistent naming which were corrected.

Renamed flows

| Service pack 29 | Service pack 30 |
|---|---|
| Sodium (+I) [ecoinvent long-term to air] | Sodium [ecoinvent long-term to air] |
| Copper (+II) [ecoinvent long-term to fresh water] | Copper [ecoinvent long-term to fresh water] |
| Total organic bounded carbon [Analytical measures to sea water] | Total organic bound carbon (TOC) [Analytical measures to sea water] |
| Sodium (+I) [ecoinvent long-term to fresh water] | Sodium [ecoinvent long-term to fresh water] |
| Nitrogen organic bounded [Inorganic emissions to sea water] | Nitrogen organic bound [Inorganic emissions to sea water] |
| Sodium (+I) [Inorganic emissions to sea water] | Sodium [Inorganic emissions to sea water] |
| Nitrogen organic bounded [Inorganic emissions to fresh water] | Nitrogen organic bound [Inorganic emissions to fresh water] |



| | |
|---|---|
| Calcium (+II) [Inorganic emissions to sea water] | Calcium [Inorganic emissions to sea water] |
| Cerium (+II) [Heavy metals to fresh water] | Cerium [Heavy metals to fresh water] |
| Total organic bounded carbon [Analytical measures to fresh water] | Total organic bound carbon (TOC) [Analytical measures to fresh water] |
| Total dissolved organic bounded carbon [Analytical measures to fresh water] | Total dissolved organic bound carbon (TOC) [Analytical measures to fresh water] |
| Nitrogen organic bounded [ecoinvent long-term to fresh water] | Nitrogen organic bound [ecoinvent long-term to fresh water] |
| Total dissolved organic bounded carbon [Analytical measures to sea water] | Total dissolved organic bound carbon (TOC) [Analytical measures to sea water] |

4. Combined flows

We combined a couple of flows to get rid of doublets:

| Service pack 29 flow | Folder | Action | Service pack 30 flow | Folder |
|--|---|----------|----------------------|---|
| Aluminium | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Aluminium | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Aluminium (+III) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Aluminium ion (+III) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Aluminium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | combined | Aluminium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] |
| Aluminium (+III) | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | | | |
| Aluminium (+III) | [Emissions to sea water] [Inorganic emissions to sea water] | combined | Aluminium | [Emissions to sea water] [Inorganic emissions to sea water] |
| Aluminium ion (+III) | [Emissions to sea water] [Inorganic emissions to sea water] | | | |
| Aluminium | [Emissions to air] [Inorganic emissions to air] | combined | Aluminium | [Emissions to air] [Inorganic emissions to air] |
| Aluminium | [Emissions to air] [Particles to air] | | | |
| Barium | [Emissions to air] [Inorganic emissions to air] | combined | Barium | [Emissions to air] [Inorganic emissions to air] |
| Barium compounds (unspecified; rel. to Ba) | [Emissions to air] [Inorganic emissions to air] | | | |
| Cadmium | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Cadmium | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Cadmium (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |

| | | | | |
|---------------|---|----------|-----------|---|
| Cadmium | [Emissions to air] [Heavy metals to air] | combined | Cadmium | [Emissions to air] [Heavy metals to air] |
| Cadmium (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Cadmium | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Cadmium | [Emissions to fresh water] [Heavy metals to fresh water] |
| Cadmium (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Cadmium | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Cadmium | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Cadmium (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Cadmium | [Emissions to sea water] [Heavy metals to sea water] | combined | Cadmium | [Emissions to sea water] [Heavy metals to sea water] |
| Cadmium (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Calcium | [Emissions to air] [Inorganic emissions to air] | combined | Calcium | [Emissions to air] [Inorganic emissions to air] |
| Calcium | [Emissions to air] [Inorganic emissions to air] | | | |
| Calcium | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Calcium | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Calcium (+II) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Calcium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | combined | Calcium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] |
| Calcium (+II) | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | | | |
| Clomazone | [Emissions to industrial soil] [Pesticides to industrial soil] | combined | Clomazone | [Emissions to industrial soil] [Pesticides to industrial soil] |
| Dimethazone | [Emissions to industrial soil] [Pesticides to industrial soil] | | | |
| Chromium | [Emissions to air] [Heavy metals to air] | combined | Chromium | [Emissions to air] [Heavy metals to air] |
| Chromium IV | [Emissions to air] [Heavy metals to air] | | | |

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|-----------------------|--|----------|--------|--|
| Copper | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Copper | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Copper (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Copper | [Emissions to air] [Heavy metals to air] | combined | Copper | [Emissions to air] [Heavy metals to air] |
| Copper (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Copper (+II) | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Copper | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Copper, ion | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Copper | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Copper | [Emissions to fresh water] [Heavy metals to fresh water] |
| Copper (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Copper compounds | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Copper ion (+II/+III) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Copper, ion | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Copper | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Copper | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Copper (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Copper | [Emissions to sea water] [Heavy metals to sea water] | combined | Copper | [Emissions to sea water] [Heavy metals to sea water] |
| Copper (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Copper ion (+II/+III) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Copper, ion | [Emissions to sea water] [Heavy metals to sea water] | | | |

| | | | | |
|-------------------------|--|----------|-------------------------|--|
| Curium-242 | [Emissions to air] [Radioactive emissions to air] | combined | Curium-242 | [Emissions to air] [Radioactive emissions to air] |
| Curium-242 | [Emissions to air] [Radioactive emissions to air] | | | |
| Clomazone | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | combined | Dimethazone | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] |
| Dimethazone | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | | | |
| Gas, natural, in ground | [Resources] [Energy resources] [Non renewable energy resources] [Natural gas (resource)] | combined | Gas, natural, in ground | [Resources] [Energy resources] [Non renewable energy resources] [Natural gas (resource)] |
| Gas, natural, in ground | [Resources] [Energy resources] [Non renewable energy resources] [Natural gas (resource)] | | | |
| Hydrogen peroxide | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Hydrogen peroxide | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Hydrogen peroxide | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Iron | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Iron | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Iron, ion | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Iron | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Iron | [Emissions to fresh water] [Heavy metals to fresh water] |
| Iron ion (+III) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Iron, ion | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Iron | [Emissions to sea water] [Heavy metals to sea water] | combined | Iron | [Emissions to sea water] [Heavy metals to sea water] |

| | | | | |
|-----------------|--|----------|---------|--|
| Iron ion (+III) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Iron, ion | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Lead | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Lead | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Lead (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Lead | [Emissions to air] [Heavy metals to air] | combined | Lead | [Emissions to air] [Heavy metals to air] |
| Lead (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Lead | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Lead | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Lead (+II) | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Lead | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Lead | [Emissions to fresh water] [Heavy metals to fresh water] |
| Lead (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Lead | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Lead | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Lead (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Lead | [Emissions to sea water] [Heavy metals to sea water] | combined | Lead | [Emissions to sea water] [Heavy metals to sea water] |
| Lead (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Lithium | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Lithium | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Lithium, ion | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Lithium | [Emissions to sea water] [Inorganic emissions to sea water] | combined | Lithium | [Emissions to sea water] [Inorganic emissions to sea water] |

| | | | | |
|---------------------|--|----------|-----------|--|
| Lithium, ion | [Emissions to sea water] [Inorganic emissions to sea water] | | | |
| Magnesium | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Magnesium | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Magnesium ion (+II) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Magnesium | [Emissions to sea water] [Inorganic emissions to sea water] | combined | Magnesium | [Emissions to sea water] [Inorganic emissions to sea water] |
| Magnesium ion (+II) | [Emissions to sea water] [Inorganic emissions to sea water] | | | |
| Manganese | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Manganese | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Manganese (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Manganese | [Emissions to air] [Heavy metals to air] | combined | Manganese | [Emissions to air] [Heavy metals to air] |
| Manganese (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Manganese | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Manganese | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Manganese (+II) | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Manganese | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Manganese | [Emissions to fresh water] [Heavy metals to fresh water] |
| Manganese (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Manganese | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Manganese | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Manganese (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Manganese | [Emissions to sea water] [Heavy metals to sea water] | combined | Manganese | [Emissions to sea water] [Heavy metals to sea water] |
| Manganese (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |

| | | | | |
|---------------|--|----------|---------|--|
| Mercury | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Mercury | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Mercury (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Mercury | [Emissions to air] [Heavy metals to air] | combined | Mercury | [Emissions to air] [Heavy metals to air] |
| Mercury (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Mercury | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Mercury | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Mercury (+II) | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Mercury | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Mercury | [Emissions to fresh water] [Heavy metals to fresh water] |
| Mercury (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Mercury | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Mercury | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Mercury (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Mercury | [Emissions to sea water] [Heavy metals to sea water] | combined | Mercury | [Emissions to sea water] [Heavy metals to sea water] |
| Mercury (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Nickel | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Nickel | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Nickel (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Nickel | [Emissions to air] [Heavy metals to air] | combined | Nickel | [Emissions to air] [Heavy metals to air] |
| Nickel (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Nickel | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Nickel | [Emissions to fresh water] [Heavy metals to fresh water] |
| Nickel (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |

| | | | | |
|-------------------|---|----------|------------------|---|
| Nickel ion (+III) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Nickel | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Nickel | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Nickel (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Nickel | [Emissions to sea water] [Heavy metals to sea water] | combined | Nickel | [Emissions to sea water] [Heavy metals to sea water] |
| Nickel (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Nickel ion (+III) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Oils, non-fossil | [Emissions to industrial soil] [Organic emissions to industrial soil] | combined | Oils, non-fossil | [Emissions to industrial soil] [Organic emissions to industrial soil] |
| Oils, non-fossil | [Emissions to industrial soil] [Organic emissions to industrial soil] | | | |
| Potassium | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Potassium | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Potassium, ion | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Potassium | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Potassium | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Potassium, ion | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Potassium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | combined | Potassium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] |
| Potassium (+I) | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | | | |
| Potassium | [Emissions to sea water] [Inorganic emissions to sea water] | combined | Potassium | [Emissions to sea water] [Inorganic emissions to sea water] |
| Potassium, ion | [Emissions to sea water] [Inorganic emissions to sea water] | | | |

| | | | | |
|-------------------------------|---|----------|--------------------|---|
| Silver | [Emissions to fresh water] [ecoinvent long-term to fresh water] | combined | Silver | [Emissions to fresh water] [ecoinvent long-term to fresh water] |
| Silver, ion | [Emissions to fresh water] [ecoinvent long-term to fresh water] | | | |
| Silver | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Silver | [Emissions to fresh water] [Heavy metals to fresh water] |
| Silver, ion | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Silver | [Emissions to sea water] [Heavy metals to sea water] | combined | Silver | [Emissions to sea water] [Heavy metals to sea water] |
| Silver, ion | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Sodium | [Emissions to air] [Inorganic emissions to air] | combined | Sodium | [Emissions to air] [Inorganic emissions to air] |
| Sodium (+I) | [Emissions to air] [Inorganic emissions to air] | | | |
| Sodium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | combined | Sodium | [Emissions to industrial soil] [Inorganic emissions to industrial soil] |
| Sodium (+I) | [Emissions to industrial soil] [Inorganic emissions to industrial soil] | | | |
| Solids (suspended) | [Emissions to fresh water] [Particles to fresh water] | combined | Solids (suspended) | [Emissions to fresh water] [Particles to fresh water] |
| Suspended solids, unspecified | [Emissions to fresh water] [Particles to fresh water] | | | |
| Sulfate | [Emissions to fresh water] [Inorganic emissions to fresh water] | combined | Sulfate | [Emissions to fresh water] [Inorganic emissions to fresh water] |
| Sulfate, ion | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Sulphate | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |

| | | | | |
|---------------|---|----------|------------|---|
| Thiodicarb | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | combined | Thiodicarb | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] |
| Thiodicarb | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | | | |
| Tin | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Tin | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Tin (+IV) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Tin | [Emissions to air] [Heavy metals to air] | combined | Tin | [Emissions to air] [Heavy metals to air] |
| Tin (+IV) | [Emissions to air] [Heavy metals to air] | | | |
| Tin | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Tin | [Emissions to fresh water] [Heavy metals to fresh water] |
| Tin (+IV) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Tin | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Tin | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Tin (+IV) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Tin | [Emissions to sea water] [Heavy metals to sea water] | combined | Tin | [Emissions to sea water] [Heavy metals to sea water] |
| Tin (+IV) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Titanium | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Titanium | [Emissions to fresh water] [Heavy metals to fresh water] |
| Titanium, ion | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Titanium | [Emissions to sea water] [Heavy metals to sea water] | combined | Titanium | [Emissions to sea water] [Heavy metals to sea water] |
| Titanium, ion | [Emissions to sea water] [Heavy metals to sea water] | | | |

| | | | | |
|-----------------------------|---|----------|-----------------------------|---|
| Tribufos | [Emissions to air] [Pesticides to air] | combined | Tributylphosphorotrithioate | [Emissions to air] [Pesticides to air] |
| Tributylphosphorotrithioate | [Emissions to air] [Organic emissions to air (group VOC)] [Group NMVOC to air] | | | |
| Tribufos | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | combined | Tributylphosphorotrithioate | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] |
| Tributylphosphorotrithioate | [Emissions to fresh water] [Other emissions to fresh water] [Pesticides to fresh water] | | | |
| Vanadium | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Vanadium | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Vanadium (+III) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Vanadium | [Emissions to air] [Heavy metals to air] | combined | Vanadium | [Emissions to air] [Heavy metals to air] |
| Vanadium (+III) | [Emissions to air] [Heavy metals to air] | | | |
| Vanadium | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Vanadium | [Emissions to fresh water] [Heavy metals to fresh water] |
| Vanadium (+III) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Vanadium | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Vanadium | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Vanadium (+III) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Vanadium | [Emissions to sea water] [Heavy metals to sea water] | combined | Vanadium | [Emissions to sea water] [Heavy metals to sea water] |
| Vanadium (+III) | [Emissions to sea water] [Heavy metals to sea water] | | | |
| Zinc | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | combined | Zinc | [Emissions to agricultural soil] [Heavy metals to agricultural soil] |
| Zinc (+II) | [Emissions to agricultural soil] [Heavy metals to agricultural soil] | | | |
| Zinc | [Emissions to air] [Heavy metals to air] | combined | Zinc | [Emissions to air] [Heavy metals to air] |

| | | | | |
|----------------|--|----------|------|--|
| Zinc (+II) | [Emissions to air] [Heavy metals to air] | | | |
| Zinc | [Emissions to fresh water] [Heavy metals to fresh water] | combined | Zinc | [Emissions to fresh water] [Heavy metals to fresh water] |
| Zinc (+II) | [Emissions to fresh water] [Heavy metals to fresh water] | | | |
| Zinc ion (+II) | [Emissions to fresh water] [Inorganic emissions to fresh water] | | | |
| Zinc | [Emissions to industrial soil] [Heavy metals to industrial soil] | combined | Zinc | [Emissions to industrial soil] [Heavy metals to industrial soil] |
| Zinc (+II) | [Emissions to industrial soil] [Heavy metals to industrial soil] | | | |
| Zinc | [Emissions to sea water] [Heavy metals to sea water] | combined | Zinc | [Emissions to sea water] [Heavy metals to sea water] |
| Zinc (+II) | [Emissions to sea water] [Heavy metals to sea water] | | | |

5. New elementary flows

| Flow | Folder |
|----------------------------------|--|
| Aluminium | Inorganic emissions to sea water |
| Aluminium | Inorganic emissions to air |
| Antimony (+III) | Heavy metals to air |
| Antimony (+III) | Heavy metals to industrial soil |
| Antimony (+III) | Heavy metals to agricultural soil |
| Antimony (+III) | Heavy metals to fresh water |
| Antimony (+III) | Heavy metals to sea water |
| Antimony (+V) | Heavy metals to agricultural soil |
| Antimony (+V) | Heavy metals to industrial soil |
| Antimony (+V) | Heavy metals to fresh water |
| Antimony (+V) | Heavy metals to sea water |
| Antimony (+V) | Heavy metals to air |
| Arsenic (+III) | Heavy metals to industrial soil |
| Arsenic (+III) | Heavy metals to air |
| Arsenic (+III) | Heavy metals to sea water |
| Arsenic (+III) | Heavy metals to fresh water |
| Arsenic (+III) | Heavy metals to agricultural soil |
| Cerium | Heavy metals to air |
| Cerium | Heavy metals to sea water |
| Cesium | Inorganic emissions to agricultural soil |
| Cesium | Inorganic emissions to industrial soil |
| Cesium | Inorganic emissions to air |
| Chlorine compounds not specified | Emissions to fresh water |
| Chlorine compounds not specified | Emissions to air |
| Chlorine compounds not specified | Emissions to sea water |



| | |
|--|--|
| Fluorine compounds not specified | Emissions to fresh water |
| Fluorine compounds not specified | Emissions to sea water |
| Fluorine compounds not specified | Emissions to air |
| Lanthanum | Heavy metals to fresh water |
| Lanthanum | Heavy metals to sea water |
| Platinum | Heavy metals to sea water |
| Platinum | Heavy metals to fresh water |
| Sodium | Inorganic emissions to fresh water |
| Sodium | Inorganic emissions to agricultural soil |
| Tantalum | Heavy metals to sea water |
| Tantalum | Heavy metals to air |
| Tellurium | Heavy metals to sea water |
| Tellurium | Heavy metals to agricultural soil |
| Tellurium | Heavy metals to industrial soil |
| Tellurium | Heavy metals to fresh water |
| Water (fresh water, extreme scarcity) | Water |
| Water (fresh water, high scarcity) | Water |
| Water (fresh water, low scarcity) | Water |
| Water (fresh water, medium scarcity) | Water |
| Water (fresh water, moderate scarcity) | Water |
| Water (fresh water, OECD average scarcity) | Water |
| Water (fresh water, regionalized, AR) | Water |
| Water (fresh water, regionalized, AT) | Water |
| Water (fresh water, regionalized, AU) | Water |
| Water (fresh water, regionalized, BA) | Water |
| Water (fresh water, regionalized, BD) | Water |
| Water (fresh water, regionalized, BE) | Water |



| | |
|---------------------------------------|-------|
| Water (fresh water, regionalized, BG) | Water |
| Water (fresh water, regionalized, BR) | Water |
| Water (fresh water, regionalized, CA) | Water |
| Water (fresh water, regionalized, CH) | Water |
| Water (fresh water, regionalized, CI) | Water |
| Water (fresh water, regionalized, CL) | Water |
| Water (fresh water, regionalized, CN) | Water |
| Water (fresh water, regionalized, CO) | Water |
| Water (fresh water, regionalized, CZ) | Water |
| Water (fresh water, regionalized, DE) | Water |
| Water (fresh water, regionalized, DK) | Water |
| Water (fresh water, regionalized, EE) | Water |
| Water (fresh water, regionalized, ES) | Water |
| Water (fresh water, regionalized, FI) | Water |
| Water (fresh water, regionalized, FR) | Water |
| Water (fresh water, regionalized, GB) | Water |
| Water (fresh water, regionalized, GR) | Water |
| Water (fresh water, regionalized, HU) | Water |
| Water (fresh water, regionalized, ID) | Water |
| Water (fresh water, regionalized, IE) | Water |
| Water (fresh water, regionalized, IN) | Water |
| Water (fresh water, regionalized, IS) | Water |
| Water (fresh water, regionalized, IT) | Water |
| Water (fresh water, regionalized, JP) | Water |
| Water (fresh water, regionalized, KR) | Water |
| Water (fresh water, regionalized, KZ) | Water |
| Water (fresh water, regionalized, LK) | Water |



| | |
|---------------------------------------|-------|
| Water (fresh water, regionalized, LT) | Water |
| Water (fresh water, regionalized, LU) | Water |
| Water (fresh water, regionalized, LV) | Water |
| Water (fresh water, regionalized, MK) | Water |
| Water (fresh water, regionalized, MX) | Water |
| Water (fresh water, regionalized, MY) | Water |
| Water (fresh water, regionalized, NG) | Water |
| Water (fresh water, regionalized, NL) | Water |
| Water (fresh water, regionalized, NO) | Water |
| Water (fresh water, regionalized, NZ) | Water |
| Water (fresh water, regionalized, PH) | Water |
| Water (fresh water, regionalized, PK) | Water |
| Water (fresh water, regionalized, PL) | Water |
| Water (fresh water, regionalized, PT) | Water |
| Water (fresh water, regionalized, RO) | Water |
| Water (fresh water, regionalized, RS) | Water |
| Water (fresh water, regionalized, RU) | Water |
| Water (fresh water, regionalized, SE) | Water |
| Water (fresh water, regionalized, SG) | Water |
| Water (fresh water, regionalized, SI) | Water |
| Water (fresh water, regionalized, SK) | Water |
| Water (fresh water, regionalized, SL) | Water |
| Water (fresh water, regionalized, TH) | Water |
| Water (fresh water, regionalized, TR) | Water |
| Water (fresh water, regionalized, UA) | Water |
| Water (fresh water, regionalized, US) | Water |
| Water (fresh water, regionalized, UZ) | Water |



| | |
|---|-------|
| Water (fresh water, regionalized, VE) | Water |
| Water (fresh water, regionalized, VN) | Water |
| Water (fresh water, regionalized, ZA) | Water |
| Water (fresh water, very high scarcity) | Water |
| Water (ground water, extreme scarcity) | Water |
| Water (ground water, high scarcity) | Water |
| Water (ground water, low scarcity) | Water |
| Water (ground water, medium scarcity) | Water |
| Water (ground water, moderate scarcity) | Water |
| Water (ground water, OECD average scarcity) | Water |
| Water (ground water, regionalized, AR) | Water |
| Water (ground water, regionalized, AT) | Water |
| Water (ground water, regionalized, AU) | Water |
| Water (ground water, regionalized, BA) | Water |
| Water (ground water, regionalized, BD) | Water |
| Water (ground water, regionalized, BE) | Water |
| Water (ground water, regionalized, BG) | Water |
| Water (ground water, regionalized, BR) | Water |
| Water (ground water, regionalized, CA) | Water |
| Water (ground water, regionalized, CH) | Water |
| Water (ground water, regionalized, CI) | Water |
| Water (ground water, regionalized, CL) | Water |
| Water (ground water, regionalized, CN) | Water |
| Water (ground water, regionalized, CO) | Water |
| Water (ground water, regionalized, CZ) | Water |
| Water (ground water, regionalized, DE) | Water |
| Water (ground water, regionalized, DK) | Water |



| | |
|--|-------|
| Water (ground water, regionalized, EE) | Water |
| Water (ground water, regionalized, ES) | Water |
| Water (ground water, regionalized, FI) | Water |
| Water (ground water, regionalized, FR) | Water |
| Water (ground water, regionalized, GB) | Water |
| Water (ground water, regionalized, GR) | Water |
| Water (ground water, regionalized, HU) | Water |
| Water (ground water, regionalized, ID) | Water |
| Water (ground water, regionalized, IE) | Water |
| Water (ground water, regionalized, IN) | Water |
| Water (ground water, regionalized, IS) | Water |
| Water (ground water, regionalized, IT) | Water |
| Water (ground water, regionalized, JP) | Water |
| Water (ground water, regionalized, KR) | Water |
| Water (ground water, regionalized, KZ) | Water |
| Water (ground water, regionalized, LK) | Water |
| Water (ground water, regionalized, LT) | Water |
| Water (ground water, regionalized, LU) | Water |
| Water (ground water, regionalized, LV) | Water |
| Water (ground water, regionalized, MK) | Water |
| Water (ground water, regionalized, MX) | Water |
| Water (ground water, regionalized, MY) | Water |
| Water (ground water, regionalized, NG) | Water |
| Water (ground water, regionalized, NL) | Water |
| Water (ground water, regionalized, NO) | Water |
| Water (ground water, regionalized, NZ) | Water |
| Water (ground water, regionalized, PH) | Water |



| | |
|--|--------------------------------|
| Water (ground water, regionalized, PK) | Water |
| Water (ground water, regionalized, PL) | Water |
| Water (ground water, regionalized, PT) | Water |
| Water (ground water, regionalized, RO) | Water |
| Water (ground water, regionalized, RS) | Water |
| Water (ground water, regionalized, RU) | Water |
| Water (ground water, regionalized, SE) | Water |
| Water (ground water, regionalized, SG) | Water |
| Water (ground water, regionalized, SI) | Water |
| Water (ground water, regionalized, SK) | Water |
| Water (ground water, regionalized, SL) | Water |
| Water (ground water, regionalized, TH) | Water |
| Water (ground water, regionalized, TR) | Water |
| Water (ground water, regionalized, UA) | Water |
| Water (ground water, regionalized, US) | Water |
| Water (ground water, regionalized, UZ) | Water |
| Water (ground water, regionalized, VE) | Water |
| Water (ground water, regionalized, VN) | Water |
| Water (ground water, regionalized, ZA) | Water |
| Water (ground water, very high scarcity) | Water |
| Water (groundwater from technosphere, waste water, regionalized, AR) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, AT) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, AU) | Other emissions to fresh water |



| | |
|--|--------------------------------|
| Water (groundwater from technosphere, waste water, regionalized, BA) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, BD) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, BE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, BG) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, BR) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CA) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CH) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CI) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CL) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CN) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CO) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, CZ) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, DE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, DK) | Other emissions to fresh water |



| | |
|--|--------------------------------|
| Water (groundwater from technosphere, waste water, regionalized, EE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, ES) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, FI) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, FR) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, GB) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, GR) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, HU) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, ID) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, IE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, IN) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, IS) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, IT) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, JP) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, KR) | Other emissions to fresh water |



| | |
|--|--------------------------------|
| Water (groundwater from technosphere, waste water, regionalized, KZ) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, LK) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, LT) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, LU) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, LV) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, MK) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, MX) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, MY) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, NG) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, NL) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, NO) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, NZ) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, PH) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, PK) | Other emissions to fresh water |



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| Water (groundwater from technosphere, waste water, regionalized, PL) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, PT) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, RO) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, RS) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, RU) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, SE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, SG) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, SI) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, SK) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, SL) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, TH) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, TR) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, UA) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, US) | Other emissions to fresh water |



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| Water (groundwater from technosphere, waste water, regionalized, UZ) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, VE) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, VN) | Other emissions to fresh water |
| Water (groundwater from technosphere, waste water, regionalized, ZA) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, AR) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, AT) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, AU) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, BA) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, BD) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, BE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, BG) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, BR) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CA) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CH) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CI) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CL) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CN) | Other emissions to fresh water |

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| Water (lake water from technosphere, cooling water, regionalized, CO) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, CZ) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, DE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, DK) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, EE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, ES) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, FI) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, FR) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, GB) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, GR) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, HU) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, ID) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, IE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, IN) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, IS) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, IT) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, JP) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, KR) | Other emissions to fresh water |

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| Water (lake water from technosphere, cooling water, regionalized, KZ) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, LK) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, LT) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, LU) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, LV) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, MK) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, MX) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, MY) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, NG) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, NL) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, NO) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, NZ) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, PH) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, PK) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, PL) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, PT) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, RO) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, RS) | Other emissions to fresh water |



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| Water (lake water from technosphere, cooling water, regionalized, RU) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, SE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, SG) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, SI) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, SK) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, SL) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, TH) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, TR) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, UA) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, US) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, UZ) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, VE) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, VN) | Other emissions to fresh water |
| Water (lake water from technosphere, cooling water, regionalized, ZA) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, AR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, AT) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, AU) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, BA) | Other emissions to fresh water |

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| Water (lake water from technosphere, rain water, regionalized, BD) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, BE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, BG) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, BR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CA) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CH) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CI) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CL) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CN) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CO) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, CZ) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, DE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, DK) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, EE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, ES) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, FI) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, FR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, GB) | Other emissions to fresh water |

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| Water (lake water from technosphere, rain water, regionalized, GR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, HU) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, ID) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, IE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, IN) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, IS) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, IT) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, JP) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, KR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, KZ) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, LK) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, LT) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, LU) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, LV) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, MK) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, MX) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, MY) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, NG) | Other emissions to fresh water |

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| Water (lake water from technosphere, rain water, regionalized, NL) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, NO) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, NZ) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, PH) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, PK) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, PL) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, PT) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, RO) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, RS) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, RU) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, SE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, SG) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, SI) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, SK) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, SL) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, TH) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, TR) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, UA) | Other emissions to fresh water |



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| Water (lake water from technosphere, rain water, regionalized, US) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, UZ) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, VE) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, VN) | Other emissions to fresh water |
| Water (lake water from technosphere, rain water, regionalized, ZA) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, AR) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, AT) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, AU) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, BA) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, BD) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, BE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, BG) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, BR) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CA) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CH) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CI) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CL) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CN) | Other emissions to fresh water |



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| Water (lake water from technosphere, turbined, regionalized, CO) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, CZ) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, DE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, DK) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, EE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, ES) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, FI) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, FR) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, GB) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, GR) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, HU) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, ID) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, IE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, IN) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, IS) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, IT) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, JP) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, KR) | Other emissions to fresh water |



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| Water (lake water from technosphere, turbined, regionalized, KZ) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, LK) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, LT) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, LU) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, LV) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, MK) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, MX) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, MY) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, NG) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, NL) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, NO) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, NZ) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, PH) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, PK) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, PL) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, PT) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, RO) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, RS) | Other emissions to fresh water |



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| Water (lake water from technosphere, turbined, regionalized, RU) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, SE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, SG) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, SI) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, SK) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, SL) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, TH) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, TR) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, UA) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, US) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, UZ) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, VE) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, VN) | Other emissions to fresh water |
| Water (lake water from technosphere, turbined, regionalized, ZA) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, AR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, AT) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, AU) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, BA) | Other emissions to fresh water |

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| Water (lake water from technosphere, waste water, regionalized, BD) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, BE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, BG) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, BR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CA) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CH) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CI) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CL) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CN) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CO) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, CZ) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, DE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, DK) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, EE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, ES) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, FI) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, FR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, GB) | Other emissions to fresh water |



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| Water (lake water from technosphere, waste water, regionalized, GR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, HU) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, ID) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, IE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, IN) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, IS) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, IT) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, JP) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, KR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, KZ) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, LK) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, LT) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, LU) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, LV) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, MK) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, MX) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, MY) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, NG) | Other emissions to fresh water |

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| Water (lake water from technosphere, waste water, regionalized, NL) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, NO) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, NZ) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, PH) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, PK) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, PL) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, PT) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, RO) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, RS) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, RU) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, SE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, SG) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, SI) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, SK) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, SL) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, TH) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, TR) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, UA) | Other emissions to fresh water |



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| Water (lake water from technosphere, waste water, regionalized, US) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, UZ) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, VE) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, VN) | Other emissions to fresh water |
| Water (lake water from technosphere, waste water, regionalized, ZA) | Other emissions to fresh water |
| Water (lake water, extreme scarcity) | Water |
| Water (lake water, high scarcity) | Water |
| Water (lake water, low scarcity) | Water |
| Water (lake water, medium scarcity) | Water |
| Water (lake water, moderate scarcity) | Water |
| Water (lake water, OECD average scarcity) | Water |
| Water (lake water, regionalized, AR) | Water |
| Water (lake water, regionalized, AT) | Water |
| Water (lake water, regionalized, AU) | Water |
| Water (lake water, regionalized, BA) | Water |
| Water (lake water, regionalized, BD) | Water |
| Water (lake water, regionalized, BE) | Water |
| Water (lake water, regionalized, BG) | Water |
| Water (lake water, regionalized, BR) | Water |
| Water (lake water, regionalized, CA) | Water |
| Water (lake water, regionalized, CH) | Water |
| Water (lake water, regionalized, CI) | Water |
| Water (lake water, regionalized, CL) | Water |
| Water (lake water, regionalized, CN) | Water |
| Water (lake water, regionalized, CO) | Water |



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| Water (lake water, regionalized, CZ) | Water |
| Water (lake water, regionalized, DE) | Water |
| Water (lake water, regionalized, DK) | Water |
| Water (lake water, regionalized, EE) | Water |
| Water (lake water, regionalized, ES) | Water |
| Water (lake water, regionalized, FI) | Water |
| Water (lake water, regionalized, FR) | Water |
| Water (lake water, regionalized, GB) | Water |
| Water (lake water, regionalized, GR) | Water |
| Water (lake water, regionalized, HU) | Water |
| Water (lake water, regionalized, ID) | Water |
| Water (lake water, regionalized, IE) | Water |
| Water (lake water, regionalized, IN) | Water |
| Water (lake water, regionalized, IS) | Water |
| Water (lake water, regionalized, IT) | Water |
| Water (lake water, regionalized, JP) | Water |
| Water (lake water, regionalized, KR) | Water |
| Water (lake water, regionalized, KZ) | Water |
| Water (lake water, regionalized, LK) | Water |
| Water (lake water, regionalized, LT) | Water |
| Water (lake water, regionalized, LU) | Water |
| Water (lake water, regionalized, LV) | Water |
| Water (lake water, regionalized, MK) | Water |
| Water (lake water, regionalized, MX) | Water |
| Water (lake water, regionalized, MY) | Water |
| Water (lake water, regionalized, NG) | Water |
| Water (lake water, regionalized, NL) | Water |



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| Water (lake water, regionalized, NO) | Water |
| Water (lake water, regionalized, NZ) | Water |
| Water (lake water, regionalized, PH) | Water |
| Water (lake water, regionalized, PK) | Water |
| Water (lake water, regionalized, PL) | Water |
| Water (lake water, regionalized, PT) | Water |
| Water (lake water, regionalized, RO) | Water |
| Water (lake water, regionalized, RS) | Water |
| Water (lake water, regionalized, RU) | Water |
| Water (lake water, regionalized, SE) | Water |
| Water (lake water, regionalized, SG) | Water |
| Water (lake water, regionalized, SI) | Water |
| Water (lake water, regionalized, SK) | Water |
| Water (lake water, regionalized, SL) | Water |
| Water (lake water, regionalized, TH) | Water |
| Water (lake water, regionalized, TR) | Water |
| Water (lake water, regionalized, UA) | Water |
| Water (lake water, regionalized, US) | Water |
| Water (lake water, regionalized, UZ) | Water |
| Water (lake water, regionalized, VE) | Water |
| Water (lake water, regionalized, VN) | Water |
| Water (lake water, regionalized, ZA) | Water |
| Water (lake water, very high scarcity) | Water |
| Water (river water from technosphere, cooling water, regionalized, AR) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, AT) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, AU) | Other emissions to fresh water |

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| Water (river water from technosphere, cooling water, regionalized, BA) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, BD) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, BE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, BG) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, BR) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CA) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CH) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CI) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CL) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CN) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CO) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, CZ) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, DE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, DK) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, EE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, ES) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, FI) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, FR) | Other emissions to fresh water |

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| Water (river water from technosphere, cooling water, regionalized, GB) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, GR) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, HU) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, ID) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, IE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, IN) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, IS) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, IT) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, JP) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, KR) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, KZ) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, LK) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, LT) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, LU) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, LV) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, MK) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, MX) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, MY) | Other emissions to fresh water |



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| Water (river water from technosphere, cooling water, regionalized, NG) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, NL) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, NO) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, NZ) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, PH) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, PK) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, PL) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, PT) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, RO) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, RS) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, RU) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, SE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, SG) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, SI) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, SK) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, SL) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, TH) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, TR) | Other emissions to fresh water |



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| Water (river water from technosphere, cooling water, regionalized, UA) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, US) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, UZ) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, VE) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, VN) | Other emissions to fresh water |
| Water (river water from technosphere, cooling water, regionalized, ZA) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, AR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, AT) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, AU) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, BA) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, BD) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, BE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, BG) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, BR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CA) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CH) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CI) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CL) | Other emissions to fresh water |



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| Water (river water from technosphere, rain water, regionalized, CN) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CO) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, CZ) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, DE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, DK) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, EE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, ES) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, FI) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, FR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, GB) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, GR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, HU) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, ID) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, IE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, IN) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, IS) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, IT) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, JP) | Other emissions to fresh water |



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| Water (river water from technosphere, rain water, regionalized, KR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, KZ) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, LK) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, LT) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, LU) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, LV) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, MK) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, MX) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, MY) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, NG) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, NL) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, NO) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, NZ) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, PH) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, PK) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, PL) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, PT) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, RO) | Other emissions to fresh water |



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| Water (river water from technosphere, rain water, regionalized, RS) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, RU) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, SE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, SG) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, SI) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, SK) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, SL) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, TH) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, TR) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, UA) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, US) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, UZ) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, VE) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, VN) | Other emissions to fresh water |
| Water (river water from technosphere, rain water, regionalized, ZA) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, AR) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, AT) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, AU) | Other emissions to fresh water |



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| Water (river water from technosphere, turbined, regionalized, BA) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, BD) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, BE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, BG) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, BR) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CA) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CH) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CI) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CL) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CN) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CO) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, CZ) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, DE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, DK) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, EE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, ES) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, FI) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, FR) | Other emissions to fresh water |

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| Water (river water from technosphere, turbined, regionalized, GB) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, GR) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, HU) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, ID) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, IE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, IN) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, IS) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, IT) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, JP) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, KR) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, KZ) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, LK) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, LT) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, LU) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, LV) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, MK) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, MX) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, MY) | Other emissions to fresh water |

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| Water (river water from technosphere, turbined, regionalized, NG) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, NL) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, NO) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, NZ) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, PH) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, PK) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, PL) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, PT) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, RO) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, RS) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, RU) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, SE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, SG) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, SI) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, SK) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, SL) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, TH) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, TR) | Other emissions to fresh water |



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| Water (river water from technosphere, turbined, regionalized, UA) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, US) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, UZ) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, VE) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, VN) | Other emissions to fresh water |
| Water (river water from technosphere, turbined, regionalized, ZA) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, AR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, AT) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, AU) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, BA) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, BD) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, BE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, BG) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, BR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CA) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CH) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CI) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CL) | Other emissions to fresh water |

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| Water (river water from technosphere, waste water, regionalized, CN) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CO) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, CZ) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, DE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, DK) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, EE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, ES) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, FI) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, FR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, GB) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, GR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, HU) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, ID) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, IE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, IN) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, IS) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, IT) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, JP) | Other emissions to fresh water |



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| Water (river water from technosphere, waste water, regionalized, KR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, KZ) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, LK) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, LT) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, LU) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, LV) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, MK) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, MX) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, MY) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, NG) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, NL) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, NO) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, NZ) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, PH) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, PK) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, PL) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, PT) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, RO) | Other emissions to fresh water |



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| Water (river water from technosphere, waste water, regionalized, RS) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, RU) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, SE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, SG) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, SI) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, SK) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, SL) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, TH) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, TR) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, UA) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, US) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, UZ) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, VE) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, VN) | Other emissions to fresh water |
| Water (river water from technosphere, waste water, regionalized, ZA) | Other emissions to fresh water |
| Water (river water, extreme scarcity) | Water |
| Water (river water, high scarcity) | Water |
| Water (river water, low scarcity) | Water |
| Water (river water, medium scarcity) | Water |
| Water (river water, moderate scarcity) | Water |



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| Water (river water, OECD average scarcity) | Water |
| Water (river water, regionalized, AR) | Water |
| Water (river water, regionalized, AT) | Water |
| Water (river water, regionalized, AU) | Water |
| Water (river water, regionalized, BA) | Water |
| Water (river water, regionalized, BD) | Water |
| Water (river water, regionalized, BE) | Water |
| Water (river water, regionalized, BG) | Water |
| Water (river water, regionalized, BR) | Water |
| Water (river water, regionalized, CA) | Water |
| Water (river water, regionalized, CH) | Water |
| Water (river water, regionalized, CI) | Water |
| Water (river water, regionalized, CL) | Water |
| Water (river water, regionalized, CN) | Water |
| Water (river water, regionalized, CO) | Water |
| Water (river water, regionalized, CZ) | Water |
| Water (river water, regionalized, DE) | Water |
| Water (river water, regionalized, DK) | Water |
| Water (river water, regionalized, EE) | Water |
| Water (river water, regionalized, ES) | Water |
| Water (river water, regionalized, FI) | Water |
| Water (river water, regionalized, FR) | Water |
| Water (river water, regionalized, GB) | Water |
| Water (river water, regionalized, GR) | Water |
| Water (river water, regionalized, HU) | Water |
| Water (river water, regionalized, ID) | Water |
| Water (river water, regionalized, IE) | Water |



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| Water (river water, regionalized, IN) | Water |
| Water (river water, regionalized, IS) | Water |
| Water (river water, regionalized, IT) | Water |
| Water (river water, regionalized, JP) | Water |
| Water (river water, regionalized, KR) | Water |
| Water (river water, regionalized, KZ) | Water |
| Water (river water, regionalized, LK) | Water |
| Water (river water, regionalized, LT) | Water |
| Water (river water, regionalized, LU) | Water |
| Water (river water, regionalized, LV) | Water |
| Water (river water, regionalized, MK) | Water |
| Water (river water, regionalized, MX) | Water |
| Water (river water, regionalized, MY) | Water |
| Water (river water, regionalized, NG) | Water |
| Water (river water, regionalized, NL) | Water |
| Water (river water, regionalized, NO) | Water |
| Water (river water, regionalized, NZ) | Water |
| Water (river water, regionalized, PH) | Water |
| Water (river water, regionalized, PK) | Water |
| Water (river water, regionalized, PL) | Water |
| Water (river water, regionalized, PT) | Water |
| Water (river water, regionalized, RO) | Water |
| Water (river water, regionalized, RS) | Water |
| Water (river water, regionalized, RU) | Water |
| Water (river water, regionalized, SE) | Water |
| Water (river water, regionalized, SG) | Water |
| Water (river water, regionalized, SI) | Water |

| | |
|---|-----------------------------|
| Water (river water, regionalized, SK) | Water |
| Water (river water, regionalized, SL) | Water |
| Water (river water, regionalized, TH) | Water |
| Water (river water, regionalized, TR) | Water |
| Water (river water, regionalized, UA) | Water |
| Water (river water, regionalized, US) | Water |
| Water (river water, regionalized, UZ) | Water |
| Water (river water, regionalized, VE) | Water |
| Water (river water, regionalized, VN) | Water |
| Water (river water, regionalized, ZA) | Water |
| Water (river water, very high scarcity) | Water |
| Zirconium | Heavy metals to fresh water |
| Zirconium | Heavy metals to sea water |

6. New valuable substance flows

| Flow | Folder |
|--|---------------------|
| Constuction product | Other parts |
| Material (credit) | Materials |
| Material (from product) | Materials |
| Non-renewable fuel (non-elementary flow) | Auxiliary flow |
| Product installed | Valuable substances |
| Product packed | Valuable substances |
| Renewable fuel (non-elementary flow) | Auxiliary flow |

7. New production residue flows

| Flow | Folder |
|-----------------|-----------------------------------|
| Product for EoL | Production residues in life cycle |

GaBi ts version 7.3 will be available to you via the automatic update functionality in the GaBi software. No new installation procedure will be necessary.

Once the new software version is available to you on the GaBi update server – the GaBi software will prompt you to download the updated version.

If you do not have a valid maintenance contract, you will not have access to this upgrade. Please contact your local GaBi sales representative for a quote gabi@thinkstep.com.