

## 1 Supplementary material and data

### 1.1 Life Cycle Impact Assessment results for SOFC

**Table S1.** Environmental LCIA results for SOFC according EF3.0 methodology per 1g of material

	Cerium-gadolinium	Cerium-samarium	LCSF	LSM	YSZ	Lanthanum chromate	Nickel	Stainless steel	Glass ceramic	Vermiculite
EF 3.0 Acidification terrestrial and freshwater [Mole of H+ eq.]	$1.43 \times 10^{-4}$	$1.11 \times 10^{-4}$	$7.70 \times 10^{-5}$	$1.05 \times 10^{-4}$	$3.28 \times 10^{-5}$	$1.08 \times 10^{-3}$	$1.72 \times 10^{-3}$	$2.48 \times 10^{-5}$	$1.05 \times 10^{-5}$	$2.86 \times 10^{-6}$
EF 3.0 Cancer human health effects [CTUh]	$6.58 \times 10^{-12}$	$4.72 \times 10^{-12}$	$1.74 \times 10^{-11}$	$1.82 \times 10^{-11}$	$2.47 \times 10^{-12}$	$3.58 \times 10^{-12}$	$3.10 \times 10^{-11}$	$1.31 \times 10^{-9}$	$5.84 \times 10^{-13}$	$7.95 \times 10^{-14}$
EF 3.0 Cancer human health effects (Inorganic) [CTUh]	$1.01 \times 10^{-23}$	$7.26 \times 10^{-24}$	$3.33 \times 10^{-24}$	$4.48 \times 10^{-21}$	$3.53 \times 10^{-22}$	0.00	0.00	$2.98 \times 10^{-23}$	$4.45 \times 10^{-22}$	0.00
EF 3.0 Cancer human health effects (Metal) [CTUh]	$2.47 \times 10^{-12}$	$1.86 \times 10^{-12}$	$1.57 \times 10^{-11}$	$1.20 \times 10^{-11}$	$1.52 \times 10^{-12}$	$2.94 \times 10^{-12}$	$3.03 \times 10^{-11}$	$2.74 \times 10^{-12}$	$4.51 \times 10^{-13}$	$5.40 \times 10^{-14}$
EF 3.0 Cancer human health effects (Organic) [CTUh]	$4.11 \times 10^{-12}$	$2.87 \times 10^{-12}$	$1.75 \times 10^{-12}$	$6.19 \times 10^{-12}$	$9.49 \times 10^{-13}$	$6.32 \times 10^{-13}$	$6.57 \times 10^{-13}$	$1.31 \times 10^{-9}$	$1.34 \times 10^{-13}$	$2.55 \times 10^{-14}$
EF 3.0 Climate Change [kg CO <sub>2</sub> eq.]	$2.35 \times 10^{-2}$	$1.82 \times 10^{-2}$	$8.46 \times 10^{-3}$	$2.26 \times 10^{-2}$	$5.53 \times 10^{-3}$	$1.41 \times 10^{-2}$	$7.81 \times 10^{-3}$	$3.20 \times 10^{-3}$	$2.09 \times 10^{-3}$	$1.15 \times 10^{-4}$
EF 3.0 Climate Change (biogenic) [kg CO <sub>2</sub> eq.]	$8.44 \times 10^{-6}$	$6.69 \times 10^{-6}$	$1.30 \times 10^{-5}$	$8.44 \times 10^{-5}$	$1.26 \times 10^{-5}$	$1.43 \times 10^{-5}$	$2.62 \times 10^{-6}$	$6.41 \times 10^{-6}$	$7.47 \times 10^{-6}$	$6.17 \times 10^{-8}$
EF 3.0 Climate Change (fossil) [kg CO <sub>2</sub> eq.]	$2.35 \times 10^{-2}$	$1.81 \times 10^{-2}$	$8.45 \times 10^{-3}$	$2.24 \times 10^{-2}$	$5.52 \times 10^{-3}$	$1.40 \times 10^{-2}$	$7.81 \times 10^{-3}$	$3.19 \times 10^{-3}$	$2.08 \times 10^{-3}$	$1.15 \times 10^{-4}$
EF 3.0 Climate Change (land use change) [kg CO <sub>2</sub> eq.]	$1.39 \times 10^{-5}$	$1.07 \times 10^{-5}$	$4.03 \times 10^{-6}$	$8.72 \times 10^{-5}$	$6.13 \times 10^{-6}$	$9.12 \times 10^{-6}$	$3.19 \times 10^{-6}$	$3.87 \times 10^{-6}$	$1.56 \times 10^{-6}$	$1.08 \times 10^{-7}$
EF 3.0 Ecotoxicity freshwater [CTUe]	$3.23 \times 10^{-1}$	$2.71 \times 10^{-1}$	1.20	1.24	$1.17 \times 10^{-1}$	$2.25 \times 10^{-1}$	$1.37 \times 10^{-1}$	$1.24 \times 10^{-2}$	$5.27 \times 10^{-2}$	$5.94 \times 10^{-3}$
EF 3.0 Ecotoxicity freshwater (Inorganic) [CTUe]	$2.60 \times 10^{-1}$	$2.17 \times 10^{-1}$	$9.98 \times 10^{-2}$	$3.39 \times 10^{-1}$	$2.84 \times 10^{-2}$	$1.79 \times 10^{-1}$	$7.73 \times 10^{-2}$	$9.56 \times 10^{-3}$	$4.03 \times 10^{-2}$	$2.87 \times 10^{-4}$
EF 3.0 Ecotoxicity freshwater (Metals) [CTUe]	$6.28 \times 10^{-2}$	$5.34 \times 10^{-2}$	1.10	$5.68 \times 10^{-1}$	$8.83 \times 10^{-2}$	$4.56 \times 10^{-2}$	$5.82 \times 10^{-2}$	$2.76 \times 10^{-3}$	$1.23 \times 10^{-2}$	$5.58 \times 10^{-3}$
EF 3.0 Ecotoxicity freshwater (Organic) [CTUe]	$4.62 \times 10^{-4}$	$3.64 \times 10^{-4}$	$2.22 \times 10^{-3}$	$3.31 \times 10^{-1}$	$4.37 \times 10^{-4}$	$5.80 \times 10^{-4}$	$1.75 \times 10^{-3}$	$8.97 \times 10^{-5}$	$5.27 \times 10^{-5}$	$7.18 \times 10^{-5}$
EF 3.0 Eutrophication freshwater [kg P eq.]	$1.45 \times 10^{-8}$	$1.19 \times 10^{-8}$	$8.73 \times 10^{-7}$	$5.90 \times 10^{-6}$	$1.86 \times 10^{-6}$	$2.64 \times 10^{-8}$	$1.19 \times 10^{-8}$	$3.94 \times 10^{-9}$	$4.09 \times 10^{-9}$	$1.00 \times 10^{-8}$
EF 3.0 Eutrophication marine [kg N eq.]	$2.23 \times 10^{-5}$	$1.75 \times 10^{-5}$	$8.94 \times 10^{-6}$	$2.53 \times 10^{-5}$	$6.04 \times 10^{-6}$	$5.48 \times 10^{-4}$	$8.05 \times 10^{-6}$	$2.67 \times 10^{-6}$	$3.76 \times 10^{-6}$	$6.85 \times 10^{-7}$
EF 3.0 Eutrophication terrestrial [Mole of N eq.]	$2.55 \times 10^{-4}$	$2.01 \times 10^{-4}$	$9.07 \times 10^{-5}$	$1.94 \times 10^{-4}$	$6.32 \times 10^{-5}$	$6.00 \times 10^{-3}$	$8.79 \times 10^{-5}$	$2.94 \times 10^{-5}$	$4.32 \times 10^{-5}$	$7.73 \times 10^{-6}$
EF 3.0 Ionising radiation - human health [kBq U235 eq.]	$2.09 \times 10^{-4}$	$1.59 \times 10^{-4}$	$6.94 \times 10^{-4}$	$4.51 \times 10^{-3}$	$5.84 \times 10^{-4}$	$4.96 \times 10^{-4}$	$8.84 \times 10^{-4}$	$6.39 \times 10^{-5}$	$2.83 \times 10^{-4}$	$7.44 \times 10^{-6}$
EF 3.0 Land Use [Pt]	$1.75 \times 10^{-1}$	$9.64 \times 10^{-2}$	$9.35 \times 10^{-2}$	$1.02 \times 10^{-1}$	$4.29 \times 10^{-2}$	$7.81 \times 10^{-2}$	$9.93 \times 10^{-3}$	$6.49 \times 10^{-3}$	$2.89 \times 10^{-3}$	$1.14 \times 10^{-3}$
EF 3.0 Non-cancer human health effects [CTUh]	$2.59 \times 10^{-10}$	$1.81 \times 10^{-10}$	$5.33 \times 10^{-10}$	$8.54 \times 10^{-10}$	$9.06 \times 10^{-11}$	$1.20 \times 10^{-10}$	$1.00 \times 10^{-9}$	$1.20 \times 10^{-10}$	$6.12 \times 10^{-11}$	$1.07 \times 10^{-12}$
EF 3.0 Non-cancer human health effects (Inorganic) [CTUh]	$1.48 \times 10^{-10}$	$1.00 \times 10^{-10}$	$4.21 \times 10^{-10}$	$5.55 \times 10^{-10}$	$2.26 \times 10^{-11}$	$4.54 \times 10^{-11}$	$1.61 \times 10^{-10}$	$3.82 \times 10^{-12}$	$1.70 \times 10^{-11}$	$3.32 \times 10^{-13}$
EF 3.0 Non-cancer human health effects (Metals) [CTUh]	$1.10 \times 10^{-10}$	$8.05 \times 10^{-11}$	$1.10 \times 10^{-10}$	$2.74 \times 10^{-10}$	$6.64 \times 10^{-11}$	$7.46 \times 10^{-11}$	$8.39 \times 10^{-10}$	$1.16 \times 10^{-10}$	$4.42 \times 10^{-11}$	$7.09 \times 10^{-13}$
EF 3.0 Non-cancer human health effects (Organic) [CTUh]	$3.04 \times 10^{-12}$	$2.35 \times 10^{-12}$	$2.36 \times 10^{-12}$	$2.73 \times 10^{-11}$	$2.18 \times 10^{-12}$	$1.40 \times 10^{-12}$	$5.12 \times 10^{-12}$	$3.25 \times 10^{-13}$	$2.05 \times 10^{-13}$	$3.72 \times 10^{-14}$
EF 3.0 Ozone depletion [kg CFC-11 eq.]	$7.17 \times 10^{-17}$	$5.45 \times 10^{-17}$	$4.33 \times 10^{-10}$	$4.23 \times 10^{-9}$	$1.21 \times 10^{-9}$	$1.41 \times 10^{-13}$	$1.36 \times 10^{-12}$	$1.52 \times 10^{-17}$	$3.35 \times 10^{-14}$	$2.18 \times 10^{-11}$
EF 3.0 Photochemical ozone formation - human health [kg NMVOC eq.]	$6.67 \times 10^{-5}$	$5.22 \times 10^{-5}$	$2.68 \times 10^{-5}$	$5.85 \times 10^{-5}$	$1.70 \times 10^{-5}$	$1.41 \times 10^{-3}$	$1.28 \times 10^{-4}$	$8.35 \times 10^{-6}$	$9.99 \times 10^{-6}$	$2.02 \times 10^{-6}$
EF 3.0 Resource use, energy carriers [MJ]	$2.64 \times 10^{-1}$	$2.05 \times 10^{-1}$	$1.06 \times 10^{-1}$	$4.33 \times 10^{-1}$	$7.73 \times 10^{-2}$	$1.45 \times 10^{-1}$	$1.30 \cdot 10^{-1}$	$3.68 \times 10^{-2}$	$3.18 \times 10^{-2}$	$1.51 \times 10^{-3}$
EF 3.0 Resource use, mineral and metals [kg Sb eq.]	$1.94 \times 10^{-9}$	$1.39 \times 10^{-9}$	$1.33 \times 10^{-7}$	$8.27 \times 10^{-7}$	$8.00 \times 10^{-8}$	$1.73 \times 10^{-7}$	$1.76 \cdot 10^{-8}$	$2.25 \times 10^{-7}$	$7.75 \times 10^{-8}$	$2.78 \times 10^{-9}$
EF 3.0 Respiratory inorganics [Disease incidences]	$1.67 \times 10^{-9}$	$1.28 \times 10^{-9}$	$8.46 \times 10^{-10}$	$8.23 \times 10^{-10}$	$3.02 \times 10^{-10}$	$2.89 \times 10^{-9}$	$1.12 \cdot 10^{-8}$	$4.56 \times 10^{-10}$	$7.49 \times 10^{-11}$	$5.68 \times 10^{-12}$
EF 3.0 Water scarcity [m <sup>3</sup> world equiv.]	$4.51 \times 10^{-2}$	$2.94 \times 10^{-2}$	$1.67 \times 10^{-2}$	$1.33 \times 10^{-2}$	$7.08 \times 10^{-3}$	$8.48 \times 10^{-3}$	$4.13 \cdot 10^{-3}$	$7.14 \times 10^{-4}$	$1.68 \times 10^{-4}$	$8.11 \times 10^{-6}$
Metodological assessment	High	Low	Low	Low						



### 1.3 Life Cycle Impact Assessment results for AWE

**Table S3.** Environmental LCIA results for AWE according EF3.0 methodology per 1g of material

	Nickel	Zirfone	PTFE	Sodium hydroxide	Silicone	Asbestos	Potassium hydroxide	Stainless steel	S-SBR
Metodological assessment	High	Med	Med	Med	Med	Med	Med	Low	Low
EF 3.0 Acidification terrestrial and freshwater [Mole of H+ eq.]	1.72×10 <sup>-3</sup>	2.82×10 <sup>-5</sup>	4.48×10 <sup>-5</sup>	3.38×10 <sup>-6</sup>	1.84×10 <sup>-5</sup>	2.66×10 <sup>-7</sup>	9.88×10 <sup>-6</sup>	2.48×10 <sup>-5</sup>	4.46×10 <sup>-6</sup>
EF 3.0 Cancer human health effects [CTUh]	3.10×10 <sup>-11</sup>	1.03×10 <sup>-11</sup>	1.42×10 <sup>-12</sup>	2.05×10 <sup>-13</sup>	3.63×10 <sup>-11</sup>	1.35×10 <sup>-14</sup>	1.09×10 <sup>-12</sup>	1.31×10 <sup>-9</sup>	2.05×10 <sup>-12</sup>
EF 3.0 Cancer human health effects (Inorganic) [CTUh]	0.00	0.00	0.00	3.80×10 <sup>-23</sup>	1.15×10 <sup>-21</sup>	0.00	0.00	2.98×10 <sup>-23</sup>	1.47×10 <sup>-22</sup>
EF 3.0 Cancer human health effects (Metal) [CTUh]	3.03×10 <sup>-11</sup>	1.66×10 <sup>-12</sup>	6.53×10 <sup>-13</sup>	7.77×10 <sup>-14</sup>	3.55×10 <sup>-11</sup>	8.31×10 <sup>-15</sup>	8.07×10 <sup>-13</sup>	2.74×10 <sup>-12</sup>	1.84×10 <sup>-12</sup>
EF 3.0 Cancer human health effects (Organic) [CTUh]	6.57×10 <sup>-13</sup>	8.66×10 <sup>-12</sup>	7.71×10 <sup>-13</sup>	1.27×10 <sup>-13</sup>	7.29×10 <sup>-13</sup>	5.23×10 <sup>-15</sup>	2.79×10 <sup>-13</sup>	1.31×10 <sup>-9</sup>	2.15×10 <sup>-13</sup>
EF 3.0 Climate Change [kg CO2 eq.]	7.81×10 <sup>-3</sup>	5.01×10 <sup>-3</sup>	1.24×10 <sup>-2</sup>	1.35×10 <sup>-3</sup>	5.88×10 <sup>-3</sup>	3.78×10 <sup>-5</sup>	1.78×10 <sup>-3</sup>	3.20×10 <sup>-3</sup>	3.14×10 <sup>-3</sup>
EF 3.0 Climate Change (biogenic) [kg CO2 eq.]	2.62×10 <sup>-6</sup>	1.00×10 <sup>-5</sup>	2.86×10 <sup>-5</sup>	1.08×10 <sup>-5</sup>	3.48×10 <sup>-5</sup>	6.60×10 <sup>-8</sup>	6.99×10 <sup>-6</sup>	6.41×10 <sup>-6</sup>	1.15×10 <sup>-5</sup>
EF 3.0 Climate Change (fossil) [kg CO2 eq.]	7.81×10 <sup>-3</sup>	5.00×10 <sup>-3</sup>	1.23×10 <sup>-2</sup>	1.34×10 <sup>-3</sup>	5.84×10 <sup>-3</sup>	3.77×10 <sup>-5</sup>	1.77×10 <sup>-3</sup>	3.19×10 <sup>-3</sup>	3.13×10 <sup>-3</sup>
EF 3.0 Climate Change (land use change) [kg CO2 eq.]	3.19×10 <sup>-6</sup>	4.95×10 <sup>-6</sup>	1.17×10 <sup>-5</sup>	2.69×10 <sup>-6</sup>	6.18×10 <sup>-6</sup>	4.99×10 <sup>-8</sup>	2.53×10 <sup>-6</sup>	3.87×10 <sup>-6</sup>	2.08×10 <sup>-6</sup>
EF 3.0 Ecotoxicity freshwater [CTUe]	1.37×10 <sup>-1</sup>	2.03×10 <sup>-1</sup>	1.01×10 <sup>-1</sup>	3.17×10 <sup>-2</sup>	3.60×10 <sup>-2</sup>	3.13×10 <sup>-3</sup>	1.71	1.24×10 <sup>-2</sup>	3.76×10 <sup>-2</sup>
EF 3.0 Ecotoxicity freshwater (Inorganic) [CTUe]	7.73×10 <sup>-2</sup>	5.77×10 <sup>-2</sup>	8.46×10 <sup>-2</sup>	2.42×10 <sup>-2</sup>	2.56×10 <sup>-2</sup>	7.82×10 <sup>-5</sup>	2.29×10 <sup>-1</sup>	9.56×10 <sup>-3</sup>	3.57×10 <sup>-2</sup>
EF 3.0 Ecotoxicity freshwater (Metals) [CTUe]	5.82×10 <sup>-2</sup>	1.10×10 <sup>-1</sup>	1.57×10 <sup>-2</sup>	7.43×10 <sup>-3</sup>	1.03×10 <sup>-2</sup>	3.05×10 <sup>-3</sup>	1.48	2.76×10 <sup>-3</sup>	1.60×10 <sup>-3</sup>
EF 3.0 Ecotoxicity freshwater (Organic) [CTUe]	1.75×10 <sup>-3</sup>	3.54×10 <sup>-2</sup>	3.13×10 <sup>-4</sup>	2.73×10 <sup>-5</sup>	1.41×10 <sup>-4</sup>	3.43×10 <sup>-6</sup>	1.89×10 <sup>-4</sup>	8.97×10 <sup>-5</sup>	3.15×10 <sup>-4</sup>
EF 3.0 Eutrophication freshwater [kg P eq.]	1.19×10 <sup>-8</sup>	2.28×10 <sup>-6</sup>	3.94×10 <sup>-8</sup>	5.02×10 <sup>-9</sup>	9.84×10 <sup>-9</sup>	1.56×10 <sup>-8</sup>	1.18×10 <sup>-6</sup>	3.94×10 <sup>-9</sup>	5.12×10 <sup>-9</sup>
EF 3.0 Eutrophication marine [kg N eq.]	8.05×10 <sup>-6</sup>	5.48×10 <sup>-6</sup>	6.75×10 <sup>-6</sup>	1.08×10 <sup>-6</sup>	4.09×10 <sup>-6</sup>	5.21×10 <sup>-8</sup>	1.65×10 <sup>-6</sup>	2.67×10 <sup>-6</sup>	1.21×10 <sup>-6</sup>
EF 3.0 Eutrophication terrestrial [Mole of N eq.]	8.79×10 <sup>-5</sup>	5.47×10 <sup>-5</sup>	7.40×10 <sup>-5</sup>	1.31×10 <sup>-5</sup>	4.47×10 <sup>-5</sup>	6.03×10 <sup>-7</sup>	1.70×10 <sup>-5</sup>	2.94×10 <sup>-5</sup>	1.32×10 <sup>-5</sup>
EF 3.0 Ionising radiation - human health [kBq U235 eq.]	8.84×10 <sup>-4</sup>	4.05×10 <sup>-4</sup>	5.67×10 <sup>-4</sup>	8.04×10 <sup>-5</sup>	7.11×10 <sup>-4</sup>	3.69×10 <sup>-6</sup>	5.06×10 <sup>-4</sup>	6.39×10 <sup>-5</sup>	9.55×10 <sup>-5</sup>
EF 3.0 Land Use [Pt]	9.93×10 <sup>-3</sup>	1.97×10 <sup>-2</sup>	3.29×10 <sup>-2</sup>	5.64×10 <sup>-3</sup>	2.27×10 <sup>-1</sup>	1.21×10 <sup>-4</sup>	1.46×10 <sup>-2</sup>	6.49×10 <sup>-3</sup>	4.07×10 <sup>-3</sup>
EF 3.0 Non-cancer human health effects [CTUh]	1.00×10 <sup>-9</sup>	1.63×10 <sup>-10</sup>	6.00×10 <sup>-11</sup>	1.35×10 <sup>-11</sup>	4.21×10 <sup>-9</sup>	4.43×10 <sup>-13</sup>	6.66×10 <sup>-11</sup>	1.20×10 <sup>-10</sup>	1.71×10 <sup>-10</sup>
EF 3.0 Non-cancer human health effects (Inorganic) [CTUh]	1.61×10 <sup>-10</sup>	8.69×10 <sup>-11</sup>	3.23×10 <sup>-11</sup>	6.33×10 <sup>-12</sup>	2.23×10 <sup>-11</sup>	9.14×10 <sup>-14</sup>	3.74×10 <sup>-11</sup>	3.82×10 <sup>-12</sup>	7.68×10 <sup>-12</sup>
EF 3.0 Non-cancer human health effects (Metals) [CTUh]	8.39×10 <sup>-10</sup>	6.16×10 <sup>-11</sup>	2.75×10 <sup>-11</sup>	7.10×10 <sup>-12</sup>	4.19×10 <sup>-9</sup>	3.47×10 <sup>-13</sup>	2.81×10 <sup>-11</sup>	1.16×10 <sup>-10</sup>	1.63×10 <sup>-10</sup>
EF 3.0 Non-cancer human health effects (Organic) [CTUh]	5.12×10 <sup>-12</sup>	1.52×10 <sup>-11</sup>	1.67×10 <sup>-12</sup>	1.18×10 <sup>-13</sup>	9.52×10 <sup>-13</sup>	9.47×10 <sup>-15</sup>	1.26×10 <sup>-12</sup>	3.25×10 <sup>-13</sup>	5.92×10 <sup>-13</sup>
EF 3.0 Ozone depletion [kg CFC-11 eq.]	1.36×10 <sup>-12</sup>	1.22×10 <sup>-9</sup>	4.12×10 <sup>-10</sup>	2.52×10 <sup>-17</sup>	3.66×10 <sup>-17</sup>	1.62×10 <sup>-12</sup>	1.83×10 <sup>-10</sup>	1.52×10 <sup>-17</sup>	8.62×10 <sup>-18</sup>
EF 3.0 Photochemical ozone formation - human health [kg NMVOC eq.]	1.28×10 <sup>-4</sup>	1.99×10 <sup>-5</sup>	2.27×10 <sup>-5</sup>	2.78×10 <sup>-6</sup>	1.51×10 <sup>-5</sup>	1.52×10 <sup>-7</sup>	4.64×10 <sup>-6</sup>	8.35×10 <sup>-6</sup>	4.71×10 <sup>-6</sup>
EF 3.0 Resource use, energy carriers [MJ]	1.30×10 <sup>-1</sup>	9.96×10 <sup>-2</sup>	2.17×10 <sup>-1</sup>	1.77×10 <sup>-2</sup>	9.79×10 <sup>-2</sup>	5.33×10 <sup>-4</sup>	3.39×10 <sup>-2</sup>	3.68×10 <sup>-2</sup>	8.92×10 <sup>-2</sup>
EF 3.0 Resource use, mineral and metals [kg Sb eq.]	1.76×10 <sup>-8</sup>	8.89×10 <sup>-8</sup>	1.57×10 <sup>-6</sup>	3.34×10 <sup>-10</sup>	1.37×10 <sup>-7</sup>	9.18×10 <sup>-11</sup>	5.50×10 <sup>-8</sup>	2.25×10 <sup>-7</sup>	3.54×10 <sup>-10</sup>
EF 3.0 Respiratory inorganics [Disease incidences]	1.12×10 <sup>-8</sup>	2.50×10 <sup>-10</sup>	4.34×10 <sup>-9</sup>	4.33×10 <sup>-11</sup>	1.88×10 <sup>-10</sup>	5.10×10 <sup>-12</sup>	5.42×10 <sup>-11</sup>	4.56×10 <sup>-10</sup>	3.09×10 <sup>-11</sup>
EF 3.0 Water scarcity [m <sup>3</sup> world equiv.]	4.13×10 <sup>-3</sup>	3.60×10 <sup>-3</sup>	3.49×10 <sup>-3</sup>	-1.00×10 <sup>-5</sup>	2.02×10 <sup>-3</sup>	8.51×10 <sup>-6</sup>	1.16×10 <sup>-3</sup>	7.14×10 <sup>-4</sup>	2.30×10 <sup>-4</sup>





