

{SimaPro 6.0}
 {}
 {Date: 13/12/2005}
 {Time: 15:32:15}
 {Project: ECOBOAT}

Title: **1 p assembly 'Fuel Cell'**
 Method: 99 (E) V2.1 / Europe EI 99 E/E
 Value: Normalization
 Per impact category: Yes
 Skip unused: Never
 Relative mode: Non

Impact category	Unit	Fuel Cell
Carcinogens		0.000985
Respiratory organics		5.90E-06
Respiratory inorganics		0.00213
Climate change		0.00122
Radiation		3.53E-05
Ozone layer		1.66E-06
Ecotoxicity		0.00165
Acidification/ Eutrophication		0.000195
Land use		0.000224
Minerals		0.00117
Fossil fuels		0.0156

{SimaPro 6.0}
 {Process contribution}
 {Date: 13/12/2005}
 {Time: 15:31:40}
 {Project: ECOBOAT}

Product: **Fuel Cell**
 Project: ECOBOAT
 Category: Assembly/Others
 Method: Eco-indicator 99 (E) V2.1 / Europe EI 99 E/E
 Indicator: Single score
 Cut-off: 0%

Process	DQI	Unit	Fuel Cell
Total of all processes		Pt	5.7
Steel ETH S	-	Pt	5.3
Copper ETH S	-	Pt	0.172
Aluminium 0% recycled ETH	-	Pt	0.152
Truck 28t ETH S	--	Pt	0.0277
Crude oil production onshore	--	Pt	0.015
Crude oil production offshore	--	Pt	0.0121
Residual oil in refinery furnac	-	Pt	0.0027
Coal from underground mine	--	Pt	0.00167
Refinery gas in furnace Euro	--	Pt	0.00157
Raw natural gas NL U	--	Pt	0.00111
Ethylene oxide/glycol ETH U	-	Pt	0.000831
Raw natural gas GUS U	--	Pt	0.000731
Soda ETH U	-	Pt	0.000536
Raw natural gas D U	--	Pt	0.00049
Crude lignite mine UCPT E U	--	Pt	0.00043
Diesel in diesel generator ons	--	Pt	0.000423
Uranium natural in concentra	--	Pt	0.000354
Petroleum gas flaring U	-	Pt	0.000351
Raw natural gas Alg. U	--	Pt	0.000333
Tanker oceanic ETH U	--	Pt	0.000318
Lignite power plant in D U	--	Pt	0.000287
Silicate (waterglass) ETH U	-	Pt	0.000264

Raw natural gas N U	--	Pt	0.000252
Residual oil Europe in boiler	--	Pt	0.00023
Coal from open mine U	--	Pt	0.000221
Coal tailings in landfill U	--	Pt	0.000218
Electricity oil I U	--	Pt	0.000214
Diesel in diesel generator off	--	Pt	0.000184
Paraxylene ETH U	-	Pt	0.000161
Truck 40t ETH U	--	Pt	0.000146
Dimethyl p-phthalate ETH U	-	Pt	0.000129
Coal power plant in E U	--	Pt	0.000122
Coal power plant in D U	--	Pt	0.000112
Naphtha refinery Europe U	--	Pt	0.000106
Lignite power plant in Gr U	--	Pt	9.56E-05
Drilling waste to land farming	--	Pt	8.92E-05
Coal from underground mine	--	Pt	8.85E-05
Lignite power plant in E U	--	Pt	7.09E-05
Petroleum gas in gas turbine	--	Pt	6.81E-05
Diesel in building equipment l	--	Pt	5.89E-05
Coal from underground mine	--	Pt	5.55E-05
Coal power plant in F U	--	Pt	4.80E-05
Petroleum gas in gas turbine	--	Pt	4.79E-05
Infra road delivery van U	-	Pt	4.63E-05
Electricity gas power plant in	--	Pt	4.42E-05
Refinery gas refinery Europe	--	Pt	4.30E-05
Infra transport long distance l	-	Pt	4.24E-05
Freighter oceanic ETH U	--	Pt	4.21E-05
Coal power plant in I U	--	Pt	3.93E-05
Petroleum gas blow off U	-	Pt	3.87E-05
Output gas turbine productior	-	Pt	3.36E-05
Copper ETH U	-	Pt	3.11E-05
Coal from underground mine	--	Pt	2.89E-05
Coal power plant in B U	--	Pt	2.86E-05
PET ETH U	-	Pt	2.72E-05
Sand ETH U	-	Pt	2.57E-05
Output gas turbine pipeline G	--	Pt	2.55E-05
Industrial coal furnace 1-10M	--	Pt	2.53E-05
Lignite power plant in Ex-Ju L	--	Pt	2.42E-05
Electricity gas power plant in	--	Pt	2.38E-05
Coal power plant in P U	--	Pt	2.38E-05
Residual oil refinery Europe L	--	Pt	2.12E-05
Output flare production sweet	-	Pt	2.04E-05
Coal from underground mine	--	Pt	1.99E-05
Electricity oil P U	--	Pt	1.98E-05
Electricity gas power plant in	--	Pt	1.96E-05
Rhodium enriched ETH U	-	Pt	1.95E-05
Electricity oil W-D U	--	Pt	1.87E-05
Electricity oil E U	--	Pt	1.77E-05
Ethylene ETH U	-	Pt	1.71E-05
Electricity oil Gr U	--	Pt	1.64E-05
Coal power plant in NL U	--	Pt	1.61E-05
Sinter ETH U	-	Pt	1.43E-05
Electricity oil F U	--	Pt	1.42E-05
Crude iron ETH U	-	Pt	1.40E-05
Converter steel ETH U	-	Pt	1.36E-05
Platinum ETH U	-	Pt	1.17E-05
Natural gas furnace >100kW	--	Pt	1.06E-05
Coal cokes U	--	Pt	1.02E-05
Cement ETH U	-	Pt	9.76E-06
Infra natural gas HP user Eur	-	Pt	9.38E-06
Produced natural gas D U	--	Pt	9.24E-06
Output gas turbine productior	-	Pt	9.24E-06
Infra pipeline onshore U	-	Pt	8.26E-06
Cadmium free brazing ETH L	-	Pt	7.99E-06

Nickel enriched ETH U	-	Pt	7.84E-06
Fuel oil lowS in boiler 1MW U	--	Pt	7.68E-06
Palladium enriched ETH U	-	Pt	7.19E-06
Refinery sludge to landfarmin	--	Pt	6.57E-06
Lead ETH U	-	Pt	6.53E-06
Crude oil in drill tests U	-	Pt	6.51E-06
Electricity gas power plant in	--	Pt	6.50E-06
Leakage production natural g	-	Pt	6.45E-06
Electricity oil NL U	--	Pt	6.36E-06
Electricity gas power plant in	--	Pt	5.78E-06
Lignite power plant in F U	--	Pt	5.72E-06
Electricity oil Ex-Ju U	--	Pt	5.60E-06
Produced natural gas GUS U	--	Pt	5.52E-06
Infra refinery U	-	Pt	5.11E-06
Rail transport ETH U	--	Pt	4.81E-06
Electricity oil A U	--	Pt	4.53E-06
LT plastics to HA chemical la	-	Pt	4.36E-06
Spent fuel processing U	--	Pt	3.94E-06
Electricity MV use in UCPTTE	--	Pt	3.83E-06
Iron ore from mine ETH U	-	Pt	3.68E-06
Electricity gas power plant in	--	Pt	3.52E-06
Diesel refinery Europe U	--	Pt	3.47E-06
Aluminium 0% recycled ETH	-	Pt	3.43E-06
Infra coal underground mine l	-	Pt	3.38E-06
Gravel ETH U	-	Pt	3.36E-06
Infra rail transport U	-	Pt	2.94E-06
Electricity oil B U	--	Pt	2.92E-06
Output Gasmotor Alg. U	--	Pt	2.90E-06
Output flare production sour ç	-	Pt	2.89E-06
Electro steel ETH U	-	Pt	2.80E-06
Flow through hydropower UC	--	Pt	2.72E-06
Output gas turbine pipeline N	--	Pt	2.57E-06
Baryte ETH U	-	Pt	2.34E-06
Freighter inland ETH U	--	Pt	2.31E-06
Infra transport Europe U	-	Pt	2.27E-06
Truck 16t ETH U	--	Pt	2.21E-06
Reservoir hydro power plant i	--	Pt	2.20E-06
Coal power plant in A U	--	Pt	2.10E-06
Coal power plant in Ex-Ju U	--	Pt	1.94E-06
Electricity nuclear power plan	--	Pt	1.92E-06
Output gas turbine pipeline A	--	Pt	1.81E-06
Output gas turbine pipeline N	--	Pt	1.73E-06
Drilled metres onshore U	-	Pt	1.64E-06
Leakage production natural g	-	Pt	1.48E-06
Refinery sludge to special wa	--	Pt	1.46E-06
Excavation hydraulic digger L	--	Pt	1.45E-06
Infra production oil onshore L	-	Pt	1.44E-06
Electricity gas power plant in	--	Pt	1.40E-06
Lignite power plant in A U	--	Pt	1.34E-06
Tanker inland ETH U	--	Pt	1.27E-06
Uranium in ore (open mine) L	--	Pt	1.26E-06
Excavation skid steer loader l	--	Pt	1.22E-06
Infra natural gas pipeline GUç	-	Pt	1.16E-06
Explosives ETH U	-	Pt	1.16E-06
Leakage raw natural gas GUç	-	Pt	1.07E-06
LT plastics to MWI U	-	Pt	1.05E-06
Desulphurisation unit U	-	Pt	1.01E-06
Infra transport overseas U	-	Pt	1.00E-06
LA chemical landfill per kg (p	-	Pt	9.49E-07
Limestone ETH U	-	Pt	9.38E-07
Output gas turbine TJin U	--	Pt	9.22E-07
Output gas turbine pipeline D	--	Pt	9.06E-07
Ammonia ETH U	-	Pt	8.83E-07

Electricity nuclear BWR D U	--	Pt	8.74E-07
Electricity oil CH U	--	Pt	8.65E-07
Leakage production natural g	-	Pt	8.54E-07
Thin wood spruce to road U	--	Pt	8.42E-07
Infra freighter inland U	-	Pt	8.30E-07
Drilled metres offshore U	-	Pt	7.74E-07
Leakage natural gas UCPTE	-	Pt	7.28E-07
Electricity gas power plant in	--	Pt	6.95E-07
NOx retained in SCR U	-	Pt	6.91E-07
Electricity gas power plant in	--	Pt	6.72E-07
Infra boiler oil 1MW U	-	Pt	6.65E-07
Uranium enriched 3.4% EUR	--	Pt	6.41E-07
Truck 28t ETH U	--	Pt	6.24E-07
Carbon black ETH U	-	Pt	5.75E-07
H2SO4 ETH U	-	Pt	5.75E-07
Plastics to MWI U	--	Pt	5.72E-07
Passenger car W-Europe ETI	--	Pt	5.61E-07
Wooden poles to MWI U	--	Pt	5.59E-07
Zinc for plating ETH U	--	Pt	5.47E-07
Refinery sludge to HA chemi	--	Pt	5.34E-07
Bitumen refinery Europe U	--	Pt	4.99E-07
Uranium in ore (underground	--	Pt	4.99E-07
Produced natural gas N U	--	Pt	4.85E-07
Reservoir hydro power plant i	--	Pt	4.78E-07
Infra natural gas HP user D L	-	Pt	4.59E-07
Waste (inert) to landfill U	-	Pt	4.39E-07
Wood chip furnace 300kW U	--	Pt	4.33E-07
Infra tanker inland U	-	Pt	4.30E-07
Electricity nuclear PWR other	--	Pt	4.30E-07
Low radioactive waste U	--	Pt	4.11E-07
Electricity nuclear PWR D U	--	Pt	4.00E-07
Leakage raw natural gas NL I	-	Pt	3.97E-07
Leakage production natural g	-	Pt	3.83E-07
Flow through hydropower CH	--	Pt	3.68E-07
Output gas turbine pipeline U	--	Pt	3.40E-07
Infra production oil offshore L	-	Pt	3.31E-07
Wood waste in forest U	--	Pt	3.22E-07
Infra natural gas HP user I U	-	Pt	3.09E-07
Coal ash in landfill U	--	Pt	2.94E-07
Infra fuel gas power plant U	-	Pt	2.90E-07
Residual oil in refinery furnac	-	Pt	2.87E-07
Infra nuclear power plant PW	--	Pt	2.81E-07
LT drilling waste to LA chemi	-	Pt	2.63E-07
Output gas turbine NL U	--	Pt	2.41E-07
Waste to special waste incine	--	Pt	2.37E-07
Infra raw natural gas NL U	-	Pt	2.25E-07
Leakage production natural g	-	Pt	2.25E-07
Electricity nuclear BWR other	--	Pt	2.19E-07
Infra natural gas pipeline NL I	-	Pt	2.18E-07
Infra electricity MV use UCPT	-	Pt	2.11E-07
Infra raw natural gas GUS U	-	Pt	2.06E-07
Infra natural gas HP user NL	-	Pt	1.92E-07
Electricity nuclear BWR CH L	--	Pt	1.87E-07
Electricity oil L U	--	Pt	1.74E-07
Infra coal power plant U	-	Pt	1.71E-07
Leakage raw natural gas D U	-	Pt	1.66E-07
MWI 95 per kg (process spec	-	Pt	1.58E-07
Desulphurisation lignite U	-	Pt	1.56E-07
LT decarbonizing waste to LA	-	Pt	1.53E-07
Infra pipeline gas Alg. U	-	Pt	1.52E-07
Bilge oil to special waste incir	--	Pt	1.52E-07
Infra natural gas pipeline N U	-	Pt	1.46E-07
Refinery gas in furnace CH U	--	Pt	1.43E-07

Infra raw natural gas D U	-	Pt	1.38E-07
Heating oil petro refinery Eurc	--	Pt	1.36E-07
Gypsum ETH U	-	Pt	1.25E-07
Leakage raw natural gas Alg.	-	Pt	1.19E-07
Fuel oil lowS refinery CH U	--	Pt	1.17E-07
Lime (burnt) ETH U	-	Pt	1.16E-07
Iron pellets ETH U	-	Pt	1.11E-07
Uranium natural in UF6 U	--	Pt	1.08E-07
Output gas turbine GUS U	--	Pt	1.06E-07
HDPE ETH U	-	Pt	1.05E-07
Pumping storage hydropower	--	Pt	1.03E-07
Infra produced natural gas NL	-	Pt	9.90E-08
Chromium ETH U	-	Pt	9.81E-08
Infra raw natural gas Alg. U	-	Pt	9.37E-08
Uranium enriched 3.5% USEI	--	Pt	9.27E-08
Leakage raw natural gas N U	-	Pt	8.95E-08
Infra power plant oil counties	-	Pt	7.98E-08
Electricity HV use in UCPTe	--	Pt	7.97E-08
Infra natural gas HP user B U	-	Pt	7.96E-08
Pumping storage hydropower	--	Pt	7.86E-08
Output gas turbine D U	--	Pt	7.82E-08
Infra natural gas pipeline D U	-	Pt	7.74E-08
Pumping storage hydropower	--	Pt	7.51E-08
LT refinery sludge to HA cher	-	Pt	7.27E-08
Infra lignite power plant U	-	Pt	7.21E-08
Infra natural gas HP user A U	-	Pt	7.06E-08
Output Gasmotor NL U	--	Pt	6.92E-08
Limestone (inert) to landfill U	-	Pt	6.80E-08
Infra produced natural gas Gl	-	Pt	6.51E-08
Electricity nuclear PWR CH L	--	Pt	6.37E-08
Uranium enriched 3.5% EURI	--	Pt	6.32E-08
Output gas turbine Alg. U	--	Pt	6.11E-08
Output Gasmotor GUS U	--	Pt	6.08E-08
PP ETH U	-	Pt	6.06E-08
Concrete (inert) to landfill U	-	Pt	5.63E-08
Fuel oil lowS boiler 100kW U	--	Pt	5.32E-08
Nitric acid ETH U	-	Pt	5.31E-08
Produced natural gas NL U	--	Pt	5.02E-08
Infra coal cokes U	-	Pt	4.93E-08
Infra regio distribution Europe	-	Pt	4.76E-08
Oil sludge to special waste in	--	Pt	4.62E-08
Bentonite ETH U	-	Pt	4.47E-08
RA waste interim storage con	--	Pt	4.42E-08
Infra produced natural gas D	-	Pt	4.37E-08
Output gas turbine N U	--	Pt	4.36E-08
Infra reprocessing spent fuel	--	Pt	4.30E-08
Infra natural gas HP user F U	-	Pt	3.95E-08
Infra enrichment diffusion U	-	Pt	3.91E-08
Cast iron ETH U	-	Pt	3.88E-08
Plastics to HA chemical landf	--	Pt	3.78E-08
Crude oil transport Europe U	--	Pt	3.66E-08
Infra road passenger car U	-	Pt	3.47E-08
Infra nuclear power plant BW	--	Pt	3.29E-08
Infra produced natural gas Al	-	Pt	2.97E-08
Crude oil transport GUS U	--	Pt	2.96E-08
Infra natural gas pipeline U	-	Pt	2.89E-08
Pumping storage hydropower	--	Pt	2.86E-08
Uranium enriched 3.7% USEI	--	Pt	2.82E-08
Pumping storage hydropower	--	Pt	2.71E-08
Output Gasmotor N U	--	Pt	2.51E-08
HA chemical landfill per kg (p	-	Pt	2.46E-08
Infra output gas turbine U	-	Pt	2.45E-08
Mineral wool ETH U	-	Pt	2.43E-08

Output Gasmotor D U	--	Pt	2.42E-08
Infra produced natural gas N	-	Pt	2.25E-08
Uranium enriched 3.4% USEI	--	Pt	2.13E-08
LT waste to HA chemical land	-	Pt	2.01E-08
Gypsum stone ETH U	-	Pt	1.95E-08
Pumping storage hydropower	--	Pt	1.93E-08
Pumping storage hydropower	--	Pt	1.79E-08
Electricity LV use UCPT E U	--	Pt	1.65E-08
Infra industrial coal furnace 1	-	Pt	1.59E-08
Infra final storage C U	--	Pt	1.58E-08
Electricity HV use in F + impc	--	Pt	1.58E-08
Crude oil transport N-Africa U	--	Pt	1.54E-08
Sludge to HA chemical landfill	--	Pt	1.51E-08
Produced natural gas Alg. U	--	Pt	1.50E-08
Vinyl chloride ETH U	-	Pt	1.50E-08
Manganese ETH U	-	Pt	1.42E-08
LT wooden poles to MWI U	-	Pt	1.39E-08
Crude oil transport M-East U	--	Pt	1.36E-08
Infra UCPT E electricity transp	-	Pt	1.30E-08
Steel (inert) to landfill U	-	Pt	1.25E-08
Pumping storage hydropower	--	Pt	1.25E-08
Uranium enriched 3.7% EURI	--	Pt	1.21E-08
Electricity HV use in W-D + ir	--	Pt	1.21E-08
Electricity HV use in I + impo	--	Pt	1.15E-08
Uranium 3.4% in fuel elemen	--	Pt	1.13E-08
Infra conversion U	-	Pt	1.01E-08
Infra final storage B U	--	Pt	9.73E-09
Residual oil refinery CH U	--	Pt	9.56E-09
Uranium enriched 3.25% EUF	--	Pt	9.47E-09
Uranium enriched 3.7% UREI	--	Pt	9.27E-09
Output gasmotor T Jin U	--	Pt	9.14E-09
Uranium enriched 3.25% USI	--	Pt	9.07E-09
Alkyd varnish ETH U	--	Pt	8.84E-09
Infra fuel element production	-	Pt	8.34E-09
Crude oil transport C-Africa U	--	Pt	7.89E-09
Infra interim storage C U	--	Pt	6.87E-09
Uranium enriched 3.7% TENI	--	Pt	6.60E-09
Infra enrichment centrifuge U	-	Pt	6.44E-09
Infra interim storage B U	--	Pt	6.42E-09
Electricity MV use in aluminium industry U		Pt	6.32E-09
Waste from cooling U	--	Pt	6.10E-09
Bitumen refinery CH U	--	Pt	5.99E-09
Ceramics ETH U	-	Pt	5.71E-09
Infra nuclear power plant BW	--	Pt	5.54E-09
Infra nuclear power plant PW	--	Pt	5.47E-09
Fuel oil lowS refinery Europe	--	Pt	5.17E-09
Pumping storage hydropower	--	Pt	4.74E-09
Pumping storage hydropower	--	Pt	4.73E-09
Bitumen to HA chemical land	--	Pt	4.68E-09
Infra electricity HV use UCPT	-	Pt	4.58E-09
EPDM rubber ETH U	-	Pt	4.53E-09
Infra raw natural gas N U	-	Pt	4.49E-09
Electricity HV use in A + impc	--	Pt	4.39E-09
Chlorine ETH U	--	Pt	4.33E-09
Electricity HV use in E + impc	--	Pt	4.17E-09
Pipeline transport gas GUS U	--	Pt	4.04E-09
Paper ETH U	--	Pt	3.81E-09
Waste collection municipality	-	Pt	3.59E-09
Crude oil transport S-America	--	Pt	3.56E-09
Uranium enriched 3.4% UREI	--	Pt	3.54E-09
Gravel from pit ETH U	-	Pt	3.43E-09
Power saw (per hour) U	--	Pt	3.41E-09
Pipeline transport gas NL U	--	Pt	3.29E-09

NaOH ETH U	--	Pt	3.21E-09
Uranium 3.7% in fuel elemen	--	Pt	3.20E-09
Electricity HV use in L + impc	--	Pt	2.96E-09
Uranium 3.5% in fuel elemen	--	Pt	2.95E-09
Electricity HV use in B + impc	--	Pt	2.76E-09
Uranium enriched 3.4% TENI	--	Pt	2.58E-09
Radioactive waste in final sto	--	Pt	2.39E-09
Float glass uncoated ETH U	--	Pt	2.38E-09
Construction waste (inert) to l	-	Pt	2.31E-09
Zeolite (inert) to landfill U	-	Pt	2.28E-09
Pumping storage hydropower	--	Pt	2.25E-09
Uranium enriched 3.5% UREI	--	Pt	2.17E-09
Fuel oil lowS in boiler 10kW U	--	Pt	2.10E-09
Electricity HV use in CH + im	--	Pt	1.92E-09
Petrol leaded refinery Europe	--	Pt	1.87E-09
Coal from stock UCPT E U	--	Pt	1.85E-09
Uranium enriched 3.5% TENI	--	Pt	1.60E-09
Infra regio distribution CH U	-	Pt	1.59E-09
Electricity MV use in CH U	--	Pt	1.52E-09
Crude oil transport N-America	--	Pt	1.40E-09
Infra electricity LV use UCPT	-	Pt	1.35E-09
Uranium 3.4% in fuel elemen	--	Pt	1.31E-09
Pipeline transport gas N U	--	Pt	1.25E-09
Diesel stock Europe U	--	Pt	1.22E-09
Electricity LV use in CH U	--	Pt	1.22E-09
Pipeline transport gas D U	--	Pt	1.17E-09
Emission process water natu	-	Pt	1.13E-09
Refinery gas refinery CH U	--	Pt	1.07E-09
Infra boiler oil 100kW U	-	Pt	9.56E-10
Drilling waste to LA chemical	--	Pt	9.29E-10
Pipeline transport gas Alg. U	--	Pt	8.54E-10
Gas pipes (inert) to landfill U	-	Pt	8.49E-10
Emission process water petrc	-	Pt	7.76E-10
Electricity HV use in P + impc	--	Pt	7.28E-10
Electricity HV use in Gr + imp	--	Pt	7.27E-10
Residual oil stock Europe ET	--	Pt	7.16E-10
LT sludge to HA chemical lan	-	Pt	6.31E-10
Petrol unleaded refinery Euro	--	Pt	6.09E-10
Infra natural gas HP user E U	-	Pt	5.42E-10
Natural gas furnace lowNOx :	--	Pt	5.12E-10
Infra saw mill to stock U	-	Pt	4.62E-10
Pipeline transport gas U	--	Pt	4.35E-10
LDPE ETH U	-	Pt	4.25E-10
Infra furnace saw mill 300 kW	-	Pt	4.14E-10
Uranium 3.5% in fuel elemen	--	Pt	3.85E-10
Uranium 3.25% in fuel eleme	--	Pt	3.79E-10
Uranium 3.4% in fuel elemen	--	Pt	3.68E-10
Infra power plant oil CH U	-	Pt	3.68E-10
Electricity HV use in Ex-Ju +	--	Pt	3.46E-10
Propylene ETH U	-	Pt	3.33E-10
HF ETH U	-	Pt	3.27E-10
Infra MWI per kg U	-	Pt	2.92E-10
Slags per kg (process specifi	-	Pt	2.73E-10
Petrol leaded stock Europe U	--	Pt	1.97E-10
Coal from stock S-Africa U	--	Pt	1.79E-10
Phenol ETH U	-	Pt	1.58E-10
LT wood ashes mixed to MW	-	Pt	1.56E-10
Natural gas boiler blast burne	--	Pt	1.44E-10
LT bitumen to HA chemical le	-	Pt	1.11E-10
Infra electricity LV use CH U	--	Pt	9.93E-11
Natural gas HP user in Europ	--	Pt	8.49E-11
Infra electricity MV use CH U	-	Pt	8.36E-11
Coal from stock Australia U	--	Pt	8.03E-11

Coal from stock E-Europe U	--	Pt	8.00E-11
Coal from stock N-America U	--	Pt	7.73E-11
Infra municipal waste collection per kg U		Pt	7.08E-11
Infra electricity HV use CH U	-	Pt	6.51E-11
Decarbonizing waste to LA ch	--	Pt	6.38E-11
Mineral wool (inert) to landfill	-	Pt	6.36E-11
Petrol unleaded stock Europe	--	Pt	6.33E-11
Uranium enriched 3.25% TEN	--	Pt	6.15E-11
Uranium enriched 3.25% URI	--	Pt	6.15E-11
Coal from stock S-America U	--	Pt	5.11E-11
Fuel oil lowS stock CH U	--	Pt	4.92E-11
Infra passenger car W- Euroç	-	Pt	4.90E-11
Delivery van <3.5t ETH U	--	Pt	4.48E-11
Ureum ETH U	-	Pt	4.12E-11
Infra boiler oil 10kW U	-	Pt	3.78E-11
Formaldehyde ETH U	-	Pt	3.70E-11
Petrol leaded refinery CH U	--	Pt	3.29E-11
Wood ash mixed to MWI U	--	Pt	1.31E-11
Fuel oil lowS 2000 refinery CI	--	Pt	1.21E-11
Diesel refinery CH U	--	Pt	1.18E-11
Packaging carton ETH U	-	Pt	1.10E-11
Infra natural gas HP user CH	-	Pt	8.76E-12
Leakage natural gas LP CH U	-	Pt	6.41E-12
PVC high impact ETH U	-	Pt	6.24E-12
Infra special waste incinerator U		Pt	5.82E-12
Natural gas HP user in D U	--	Pt	3.99E-12
MG-Silicium ETH U	-	Pt	3.47E-12
Petrol leaded stock CH U	--	Pt	3.11E-12
Asphalt to HA chemical landfi	--	Pt	2.92E-12
Natural gas HP user in I U	--	Pt	2.85E-12
Leakage natural gas HP CH U	-	Pt	2.09E-12
Natural gas HP user in NL U	--	Pt	1.93E-12
Aluminium 100% recycled ET	-	Pt	1.67E-12
Fuel oil lowS stock Europe U	--	Pt	1.47E-12
LT asphalt to HA chemical lai	-	Pt	1.33E-12
Natural gas HP user in B U	--	Pt	8.14E-13
Natural gas HP user in A U	--	Pt	8.02E-13
Carton to MWI U	--	Pt	7.08E-13
PE to MWI U	--	Pt	5.15E-13
Output gas turbine CH U	--	Pt	5.13E-13
Natural gas HP user in F U	--	Pt	3.37E-13
LT PE to MWI U	-	Pt	3.29E-13
LT carton to MWI U	-	Pt	7.12E-14
Thin wood beech to road U	--	Pt	4.37E-14
Paint (inert) to landfill U	-	Pt	2.59E-14
Copper (inert) to landfill U	-	Pt	1.76E-14
Electricity HV use in CH U	--	Pt	9.72E-15
Fuel oil lowS 2000 stock CH U	--	Pt	6.27E-15
Diesel stock CH U	--	Pt	6.13E-15
Natural gas HP user in E U	--	Pt	4.89E-15
Glas (inert) to landfill U	-	Pt	9.16E-16
Natural gas HP user in CH U	--	Pt	8.05E-17
Wood in forest U	--	Pt	-3.65E-06