














POTENTIAL ENVIRONMENTAL IMPACTS PER REFERENCE FLOW

		Production			Construction process stage		Use stage							End-of-life stage				D Reuse, recovery, recycling	
		A1 Raw material	A2 Transport	A3 manufacturing	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal		
	GWP total (kg CO2 equiv/FU)	6.11E+00	6.16E+00	-3.21E+01	2.11E+00	7.59E+00	-1.30E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-01	1.42E+00	2.61E-01	5.31E+01	4.76E+00
	GWP fossil (kg CO2 equiv/FU)	5.80E+01	6.16E+00	-1.85E+01	2.11E+00	4.65E+00	-1.30E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-01	1.42E+00	2.58E-01	1.24E+00	-5.85E+00
	GWP biogenic (kg CO2 equiv/FU)	-5.19E+01	2.53E-03	-1.36E+01	8.66E-04	2.94E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	5.81E-04	3.05E-03	5.19E+01	1.06E+01
	GWP luluc (kg CO2 equiv/FU)	3.16E-02	4.88E-05	8.37E-04	1.67E-05	1.89E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.97E-06	1.12E-05	1.25E-04	2.04E-04	-8.27E-03
	ODP (kg CFC 11 equiv/FU)	3.05E-06	1.43E-06	1.51E-07	4.90E-07	4.17E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-07	3.29E-07	6.11E-08	8.15E-08	-9.17E-07
	AP (kg SO2 equiv/FU)	2.88E-01	2.13E-02	4.95E-03	7.31E-03	1.99E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.20E-03	4.91E-03	2.36E-03	3.99E-02	-1.65E-02
	EP freshwater (kg (PO4)3-equiv/FU)	4.40E-03	3.66E-06	2.40E-05	1.26E-06	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-07	8.43E-07	8.50E-07	1.89E-05	-1.40E-04
	EP - marine (kg (PO4)3-equiv/FU)	1.44E-01	6.84E-03	1.14E-03	2.35E-03	8.65E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-03	1.57E-03	1.03E-03	2.92E-03	-5.34E-03
	EP terrestrial (kg (PO4)3-equiv/FU)	9.95E-01	7.53E-02	1.47E-02	2.58E-02	6.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-02	1.73E-02	1.13E-02	1.64E-01	-5.20E-02
	POCP (kg Ethene equiv/FU)	8.55E-02	2.05E-02	4.35E-03	7.04E-03	8.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-03	4.73E-03	3.08E-03	1.19E-02	-1.44E-02

	ADP Elements (kg Sb equiv/FU)	5.06E-06	3.63E-07	1.77E-06	1.24E-07	7.89E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-07	8.35E-08	1.12E-07	2.97E-07	-2.18E-06
	ADP fossil fuels (MJ/FU)	3.19E+02	8.72E+01	2.30E+01	2.99E+01	3.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E+00	2.01E+01	5.44E+00	8.25E+00	-1.34E+02
	WDP (m ³ water eq deprived /FU)	4.61E+00	-1.92E-02*	2.44E-01	-6.59E-03*	3.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-03	-4.42E-03*	2.44E-02	2.25E-02	-1.04E+00

GWP total = total Global Warming Potential (Climate Change); GWP-luluc = Global Warming Potential (Climate Change) land use and land use change; ODP = Ozone Depletion Potential; AP = Acidification Potential for Soil and Water; EP = Eutrophication Potential; POCP = Photochemical Ozone Creation; ADPE = Abiotic Depletion Potential – Elements; ADPF = Abiotic Depletion Potential – Fossil Fuels; WDP = water use (Water (user) deprivation potential, deprivation-weighted water consumption)

*The negative values for the PRP/WDP for the transport stages A2, A4 and C2, as calculated according to the EN15804+A2 standard, come from the contribution of the Low Sulfur Diesel used by the trucks, and whose production generates releases of water linked to the production of electricity.

RESOURCE USE

	Production			Construction process		Use stage							End-of-life stage				D Reuse, recovery, recycling
	A1 Raw material	A2 Transport	A3 manufacturing	A4 Transport	A5 Installation	B1 Use	B2 Maintenance	B3 Repair	B4 Replacement	B5 Refurbishment	B6 Operational energy use	B7 Operational water use	C1 Deconstruction / demolition	C2 Transport	C3 Waste processing	C4 Disposal	
PERE (MJ/FU, net calorific value)	9.96E+00	1.22E-01	-7.19E+01	4.18E-02	3.16E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	2.81E-02	3.40E-01	9.12E+01	-2.40E+02
PERM (MJ/FU, net calorific value)	5.97E+02	0.00E+00	9.22E+01	0.00E+00	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-9.09E+01	9.13E+01
PERT (MJ/FU, net calorific value)	6.07E+02	1.22E-01	2.02E+01	4.18E-02	3.26E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-02	2.81E-02	3.40E-01	2.70E-01	-1.49E+02
PENRE (MJ/FU, net calorific value)	3.18E+02	8.72E+01	1.44E+01	2.99E+01	4.18E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E+00	2.00E+01	5.45E+00	8.25E+00	-1.37E+02
PENRM (MJ/FU, net calorific value)	0.00E+00	0.00E+00	8.54E+00	0.00E+00	-5.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.64E+00

<i>PENRT (MJ/FU, net calorific value)</i>	3.18E+02	8.72E+01	2.30E+01	2.99E+01	3.59E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.66E+00	2.00E+01	5.45E+00	8.25E+00	-1.34E+02
<i>SM (kg/FU)</i>	0.00E+00	0.00E+00	7.56E+00	0.00E+00	9.60E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<i>RSF (MJ/FU, net calorific value)</i>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<i>NRSF (MJ/FU, net calorific value)</i>	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<i>FW (m³ water eq/FU)</i>	1.63E-01	4.33E-03	2.08E-03	1.49E-03	1.67E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	9.97E-04	7.30E-04	9.67E-04	-2.04E-02

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water