
This appendix refers to the EPD MD-25023-EN. Results in the appendix communicates LCA results in the format described in EN15804+A1:2013, in order to accommodate a need in the transition period between the two standard revisions. The appendix cannot stand alone, as the reference EPD describes the basis of the assessment.

RT488

ENVIRONMENTAL IMPACTS PER TONNES RT488										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,42E+01	5,30E+00	6,83E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,09E+00
OPD	[kg CFC 11 eq.]	1,02E-06	8,80E-08	1,23E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,03E-08
AP	[kg SO ₂ eq.]	4,56E-01	1,09E-02	2,66E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,15E-02
EP	[kg SO ₄ ³⁻ eq.]	4,80E-02	2,69E-03	6,13E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,19E-03
POCP	[kg ethene-eq.]	9,52E-03	7,83E-04	1,18E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,72E-04	1,48E-05	1,63E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,50E-05
ADPF	[MJ]	3,62E+02	7,80E+01	1,04E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,37E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT488										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,74E+02	1,26E+00	2,90E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PERM	[MJ]	3,56E+01	0,00E+00	-3,56E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,10E+02	1,26E+00	-3,53E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PENRE	[MJ]	3,51E+02	7,96E+01	1,08E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,76E+02	7,96E+01	-1,46E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
SM	[kg]	8,95E+01	3,44E-02	4,55E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	1,04E+03	4,34E-04	6,15E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,19E-04
NRSF	[MJ]	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
FW	[m ³]	3,50E-01	1,19E-02	6,80E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,73E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT488										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,04E+00	1,16E-01	3,12E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,91E-01
NHWD	[kg]	5,51E+01	2,32E+00	3,25E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,82E+00
RWD	[kg]	2,08E-04	2,39E-05	5,68E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,13E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,04E-04	1,18E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,06E-03
MER	[kg]	1,25E-01	3,48E-06	2,10E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,28E-06
EE	[MJ]	1,54E-01	1,19E-02	9,43E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,30E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT486

ENVIRONMENTAL IMPACTS PER TONNES RT486										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,41E+01	5,30E+00	6,83E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,09E+00
OPD	[kg CFC 11 eq.]	1,02E-06	8,80E-08	1,23E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,03E-08
AP	[kg SO ₂ eq.]	4,55E-01	1,09E-02	2,66E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,15E-02
EP	[kg SO ₄ ³⁻ eq.]	4,79E-02	2,69E-03	6,13E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,19E-03
POCP	[kg ethene-eq.]	9,49E-03	7,83E-04	1,18E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,72E-04	1,48E-05	1,63E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,50E-05
ADPF	[MJ]	3,60E+02	7,80E+01	1,04E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,37E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT486										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,74E+02	1,26E+00	2,90E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PERM	[MJ]	3,56E+01	0,00E+00	-3,56E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,09E+02	1,26E+00	-3,53E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PENRE	[MJ]	3,49E+02	7,96E+01	1,08E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,74E+02	7,96E+01	-1,46E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
SM	[kg]	8,95E+01	3,44E-02	4,55E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	1,04E+03	4,34E-04	6,15E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,19E-04
NRSF	[MJ]	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
FW	[m ³]	3,48E-01	1,19E-02	6,80E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,73E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT486										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,04E+00	1,16E-01	3,12E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,91E-01
NHWD	[kg]	5,49E+01	2,32E+00	3,25E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,82E+00
RWD	[kg]	2,02E-04	2,39E-05	5,68E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,13E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,04E-04	1,18E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,06E-03
MER	[kg]	1,25E-01	3,48E-06	2,10E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,28E-06
EE	[MJ]	1,49E-01	1,19E-02	9,43E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,30E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT485

ENVIRONMENTAL IMPACTS PER TONNES RT485										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,41E+01	5,30E+00	6,83E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,09E+00
OPD	[kg CFC 11 eq.]	1,02E-06	8,80E-08	1,23E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,03E-08
AP	[kg SO ₂ eq.]	4,55E-01	1,09E-02	2,66E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,15E-02
EP	[kg SO ₄ ³⁻ eq.]	4,79E-02	2,69E-03	6,13E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,19E-03
POCP	[kg ethene-eq.]	9,49E-03	7,83E-04	1,18E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,72E-04	1,48E-05	1,63E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,50E-05
ADPF	[MJ]	3,60E+02	7,80E+01	1,04E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,37E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT485										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,74E+02	1,26E+00	2,90E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PERM	[MJ]	3,56E+01	0,00E+00	-3,56E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,09E+02	1,26E+00	-3,53E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,73E+01
PENRE	[MJ]	3,49E+02	7,96E+01	1,08E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,74E+02	7,96E+01	-1,46E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,09E+01
SM	[kg]	8,95E+01	3,44E-02	4,55E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	1,04E+03	4,34E-04	6,15E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,19E-04
NRSF	[MJ]	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
FW	[m ³]	3,48E-01	1,19E-02	6,80E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,73E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT485										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,04E+00	1,16E-01	3,12E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,91E-01
NHWD	[kg]	5,49E+01	2,32E+00	3,25E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,82E+00
RWD	[kg]	2,02E-04	2,39E-05	5,68E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,13E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,04E-04	1,18E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,06E-03
MER	[kg]	1,25E-01	3,48E-06	2,10E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,28E-06
EE	[MJ]	1,49E-01	1,19E-02	9,43E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,30E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT412

ENVIRONMENTAL IMPACTS PER TONNES RT412										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,71E+01	5,30E+00	7,03E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,10E+00
OPD	[kg CFC 11 eq.]	1,05E-06	8,81E-08	1,24E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,08E-08
AP	[kg SO ₂ eq.]	4,56E-01	1,09E-02	2,68E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,16E-02
EP	[kg SO ₄ ³⁻ eq.]	4,77E-02	2,69E-03	6,20E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,23E-03
POCP	[kg ethene-eq.]	9,67E-03	7,84E-04	1,19E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,71E-04	1,49E-05	1,64E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,51E-05
ADPF	[MJ]	3,53E+02	7,81E+01	1,05E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,38E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT412										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,76E+02	1,26E+00	2,95E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,77E+01
PERM	[MJ]	3,73E+01	0,00E+00	-3,73E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,14E+02	1,26E+00	-3,70E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,77E+01
PENRE	[MJ]	3,40E+02	7,97E+01	1,09E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,11E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,65E+02	7,97E+01	-1,45E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,11E+01
SM	[kg]	3,63E-01	3,44E-02	4,60E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	2,38E+02	4,34E-04	6,17E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,20E-04
NRSF	[MJ]	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
FW	[m ³]	4,49E-01	1,19E-02	6,83E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,74E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT412										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,03E+00	1,16E-01	3,16E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,92E-01
NHWD	[kg]	5,40E+01	2,32E+00	3,26E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,86E+00
RWD	[kg]	1,77E-04	2,39E-05	5,83E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,14E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,05E-04	1,24E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,10E-03
MER	[kg]	1,25E-01	3,48E-06	2,17E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,29E-06
EE	[MJ]	1,35E-01	1,19E-02	9,62E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,33E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT215

ENVIRONMENTAL IMPACTS PER TONNES RT215										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,41E+01	5,28E+00	6,21E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,03E+00
OPD	[kg CFC 11 eq.]	9,74E-07	8,78E-08	1,21E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-5,90E-08
AP	[kg SO ₂ eq.]	4,51E-01	1,08E-02	2,60E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,13E-02
EP	[kg SO ₄ ³⁻ eq.]	4,64E-02	2,68E-03	5,91E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,07E-03
POCP	[kg ethene-eq.]	9,04E-03	7,81E-04	1,16E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,20E-03
ADPE	[kg Sb-eq.]	1,66E-04	1,48E-05	1,60E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,47E-05
ADPF	[MJ]	3,27E+02	7,77E+01	1,03E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,31E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT215										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,69E+02	1,26E+00	2,74E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,60E+01
PERM	[MJ]	3,05E+01	0,00E+00	-3,05E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	2,99E+02	1,26E+00	-3,02E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,60E+01
PENRE	[MJ]	3,13E+02	7,93E+01	1,07E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,02E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,39E+02	7,93E+01	-1,48E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,02E+01
SM	[kg]	3,27E-01	3,43E-02	4,42E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	2,37E+02	4,32E-04	6,08E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,17E-04
NRSF	[MJ]	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
FW	[m ³]	4,22E-01	1,19E-02	6,69E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,71E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT215										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	9,76E-01	1,15E-01	2,99E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,87E-01
NHWD	[kg]	5,30E+01	2,31E+00	3,23E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,69E+00
RWD	[kg]	1,68E-04	2,38E-05	5,23E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,10E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,02E-04	1,01E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-5,92E-03
MER	[kg]	1,25E-01	3,47E-06	1,89E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,26E-06
EE	[MJ]	1,31E-01	1,19E-02	8,84E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,24E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT210

ENVIRONMENTAL IMPACTS PER TONNES RT210										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,33E+01	5,30E+00	6,93E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,09E+00
OPD	[kg CFC 11 eq.]	1,01E-06	8,81E-08	1,23E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-6,05E-08
AP	[kg SO ₂ eq.]	4,52E-01	1,09E-02	2,67E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,16E-02
EP	[kg SO ₄ ³⁻ eq.]	4,70E-02	2,69E-03	6,16E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,21E-03
POCP	[kg ethene-eq.]	9,37E-03	7,84E-04	1,18E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,70E-04	1,49E-05	1,63E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,50E-05
ADPF	[MJ]	3,51E+02	7,80E+01	1,05E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,37E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT210										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,73E+02	1,26E+00	2,92E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,75E+01
PERM	[MJ]	3,64E+01	0,00E+00	-3,64E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,10E+02	1,26E+00	-3,61E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,75E+01
PENRE	[MJ]	3,38E+02	7,96E+01	1,09E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,10E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,63E+02	7,96E+01	-1,46E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,10E+01
SM	[kg]	8,74E+01	3,44E-02	4,58E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	1,01E+03	4,34E-04	6,16E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,19E-04
NRSF	[MJ]	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
FW	[m ³]	3,54E-01	1,19E-02	6,81E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,73E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT210										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,01E+00	1,16E-01	3,14E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,92E-01
NHWD	[kg]	5,38E+01	2,32E+00	3,25E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,84E+00
RWD	[kg]	1,72E-04	2,39E-05	5,75E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,14E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,04E-04	1,21E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,08E-03
MER	[kg]	1,25E-01	3,48E-06	2,13E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,28E-06
EE	[MJ]	1,28E-01	1,19E-02	9,52E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,32E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RT207

ENVIRONMENTAL IMPACTS PER TONNES RT207										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
GWP	[kg CO ₂ eq.]	9,60E+01	5,29E+00	6,63E+00	0,00E+00	0,00E+00	7,60E+00	3,47E+00	5,64E-02	-5,07E+00
OPD	[kg CFC 11 eq.]	1,02E-06	8,79E-08	1,22E-08	0,00E+00	0,00E+00	1,20E-07	4,22E-08	1,68E-09	-5,99E-08
AP	[kg SO ₂ eq.]	4,54E-01	1,08E-02	2,64E-03	0,00E+00	0,00E+00	2,12E-02	2,92E-02	3,26E-04	-3,15E-02
EP	[kg SO ₄ ³⁻ eq.]	4,71E-02	2,68E-03	6,06E-04	0,00E+00	0,00E+00	4,82E-03	5,24E-03	5,98E-05	-9,15E-03
POCP	[kg ethene-eq.]	9,41E-03	7,82E-04	1,17E-04	0,00E+00	0,00E+00	1,16E-03	6,12E-04	1,45E-05	-2,21E-03
ADPE	[kg Sb-eq.]	1,68E-04	1,48E-05	1,62E-06	0,00E+00	0,00E+00	2,43E-05	1,22E-06	7,12E-08	-5,49E-05
ADPF	[MJ]	3,42E+02	7,79E+01	1,04E+01	0,00E+00	0,00E+00	1,04E+02	4,54E+01	1,40E+00	-5,35E+01
Caption	GWP = Global warming potential; OPD = Ozone depletion potential; AP = Acidification potential of soil and water; EP = Eutrophication potential; POCP = Photochemical ozone creation potential; ADPE = Abiotic depletion potential for non fossil resources; ADPF = Abiotic depletion potential for fossil resources									
	The numbers are declared in scientific notation, e.g. 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

RESOURCE USE PER TONNES RT207										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
PERE	[MJ]	2,73E+02	1,26E+00	2,85E-01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,69E+01
PERM	[MJ]	3,40E+01	0,00E+00	-3,40E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	[MJ]	3,07E+02	1,26E+00	-3,37E+01	0,00E+00	0,00E+00	1,81E+00	2,79E-01	2,91E-02	-3,69E+01
PENRE	[MJ]	3,29E+02	7,95E+01	1,08E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,07E+01
PENRM	[MJ]	2,54E+01	0,00E+00	-2,54E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	[MJ]	3,54E+02	7,95E+01	-1,47E+01	0,00E+00	0,00E+00	1,07E+02	4,57E+01	1,42E+00	-6,07E+01
SM	[kg]	3,46E-01	3,44E-02	4,51E-03	0,00E+00	0,00E+00	4,88E-02	1,90E-02	3,38E-04	-1,29E-01
RSF	[MJ]	2,37E+02	4,33E-04	6,13E-05	0,00E+00	0,00E+00	6,16E-04	4,96E-05	8,47E-06	-9,18E-04
NRSF	[MJ]	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
FW	[m ³]	4,24E-01	1,19E-02	6,76E-03	0,00E+00	0,00E+00	1,46E-02	3,27E-03	1,62E-03	-3,72E-01
Caption	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									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

WASTE CATEGORIES AND OUTPUT FLOWS PER TONNES RT207										
Parameter	Unit	A1-A3	A4	A5	B1-B7	C1	C2	C3	C4	D
HWD	[kg]	1,00E+00	1,16E-01	3,08E-02	0,00E+00	0,00E+00	1,53E-01	5,10E-02	1,08E-03	-4,90E-01
NHWD	[kg]	5,35E+01	2,32E+00	3,24E+01	0,00E+00	0,00E+00	3,24E+00	9,61E+02	9,73E+00	-9,78E+00
RWD	[kg]	1,72E-04	2,39E-05	5,53E-06	0,00E+00	0,00E+00	3,40E-05	5,01E-06	2,86E-07	-1,12E-04

CRU	[kg]	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
MFR	[kg]	2,56E+01	6,03E-04	1,13E+00	0,00E+00	0,00E+00	8,00E-04	9,60E+02	5,37E-06	-6,01E-03
MER	[kg]	1,25E-01	3,48E-06	2,04E+00	0,00E+00	0,00E+00	6,75E-06	6,26E-07	2,12E-08	-8,27E-06
EE	[MJ]	1,33E-01	1,19E-02	9,24E+00	0,00E+00	0,00E+00	1,81E-02	2,06E-03	1,59E-04	-2,28E-01
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy									
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*102 or 195, while 1,12E-11 is the same as 1,12*10-11 or 0,0000000000112.									

Checked and approved by



Mirko Miseljic, LCA Specialists

Third party verifier of MD-25023-EN



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