

This appendix refers to the EPD MD-22123-EN, developed according to EN15804+A2:2019. 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.

ENVIRONMENTAL IMPACTS PER TON V-1100									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1,21E+02	2,58E+02	1,44E+02	0,00E+00	1,11E+01	0,00E+00	5,17E+00	0,00E+00
ODP	[kg CFC11-eq.]	1,38E-05	3,91E-05	8,48E-06	0,00E+00	1,85E-06	0,00E+00	1,68E-06	0,00E+00
AP	[kg SO ₂ -eq.]	4,83E-01	2,59E+00	2,86E-01	0,00E+00	2,81E-02	0,00E+00	3,77E-02	0,00E+00
EP	[kg PO ₄ ³⁻ -eq.]	1,36E-01	3,45E-01	1,71E-01	0,00E+00	6,00E-03	0,00E+00	7,97E-03	0,00E+00
POCP	[kg ethene-eq.]	2,01E-02	7,97E-02	1,83E-02	0,00E+00	1,36E-03	0,00E+00	1,56E-03	0,00E+00
ADPE	[kg Sb-eq.]	3,66E-03	7,55E-04	2,92E-04	0,00E+00	4,78E-05	0,00E+00	1,13E-05	0,00E+00
ADPF	[MJ]	4,28E+02	4,49E+02	7,16E+02	0,00E+00	2,15E+01	0,00E+00	1,10E+01	0,00E+00
Caption	GWP = Global warming potential; ODP = 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, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER TON V-1100									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[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
PERM	[MJ]	4,32E+01	4,06E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PERT	[MJ]	4,32E+01	4,06E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PENRE	[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
PENRM	[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
PENRT	[MJ]	5,07E+02	5,09E+02	9,29E+02	0,00E+00	2,37E+01	0,00E+00	1,25E+01	0,00E+00
SM	[kg]	1,15E+01	3,70E+00	6,54E+01	0,00E+00	1,32E-01	0,00E+00	7,94E-02	0,00E+00
RSF	[MJ]	1,38E+00	4,61E-01	1,37E+01	0,00E+00	1,70E-02	0,00E+00	1,40E-02	0,00E+00
NRSF	[MJ]	5,14E+01	1,46E+00	2,68E+00	0,00E+00	3,41E-02	0,00E+00	2,01E-02	0,00E+00
FW	[m ³]	1,82E+02	2,35E+02	4,92E+02	0,00E+00	9,20E+00	0,00E+00	5,29E+00	0,00E+00
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 = Use of net fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER TON V-1100									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	1,44E+02	1,09E+02	2,17E+02	0,00E+00	4,98E+00	0,00E+00	2,43E+00	0,00E+00
NHWD	[kg]	2,94E+01	1,13E+02	8,36E+01	0,00E+00	6,71E+00	0,00E+00	1,00E+03	0,00E+00
RWD	[kg]	5,28E-02	6,18E-02	1,33E-01	0,00E+00	2,43E-03	0,00E+00	1,86E-03	0,00E+00
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
MFR	[kg]	3,63E+00	2,75E+00	2,28E+01	0,00E+00	9,75E-02	0,00E+00	5,05E-02	0,00E+00
MER	[kg]	3,74E-01	1,71E+00	2,30E-01	0,00E+00	5,49E-02	0,00E+00	2,80E-02	0,00E+00
EEE	[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
EET	[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
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*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

ENVIRONMENTAL IMPACTS PER TON VIP 900									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	9,09E+01	2,43E+02	1,44E+02	0,00E+00	1,11E+01	0,00E+00	5,17E+00	0,00E+00
ODP	[kg CFC111-eq.]	1,04E-05	3,78E-05	8,48E-06	0,00E+00	1,85E-06	0,00E+00	1,68E-06	0,00E+00
AP	[kg SO ₂ -eq.]	3,65E-01	2,13E+00	2,86E-01	0,00E+00	2,81E-02	0,00E+00	3,77E-02	0,00E+00
EP	[kg PO ₄ ³⁻ -eq.]	1,06E-01	2,92E-01	1,71E-01	0,00E+00	6,00E-03	0,00E+00	7,97E-03	0,00E+00
POCP	[kg ethene-eq.]	1,53E-02	6,74E-02	1,83E-02	0,00E+00	1,36E-03	0,00E+00	1,56E-03	0,00E+00
ADPE	[kg Sb-eq.]	2,79E-03	7,31E-04	2,92E-04	0,00E+00	4,78E-05	0,00E+00	1,13E-05	0,00E+00
ADPF	[MJ]	3,23E+02	4,24E+02	7,16E+02	0,00E+00	2,15E+01	0,00E+00	1,10E+01	0,00E+00
Caption	GWP = Global warming potential; ODP = 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, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER TON VIP 900									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[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
PERM	[MJ]	3,31E+01	3,69E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PERT	[MJ]	3,31E+01	3,69E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PENRE	[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
PENRM	[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
PENRT	[MJ]	3,84E+02	4,78E+02	9,29E+02	0,00E+00	2,37E+01	0,00E+00	1,25E+01	0,00E+00
SM	[kg]	1,04E+01	3,33E+00	6,54E+01	0,00E+00	1,32E-01	0,00E+00	7,94E-02	0,00E+00
RSF	[MJ]	1,07E+00	4,24E-01	1,37E+01	0,00E+00	1,70E-02	0,00E+00	1,40E-02	0,00E+00
NRSF	[MJ]	3,81E+01	1,26E+00	2,68E+00	0,00E+00	3,41E-02	0,00E+00	2,01E-02	0,00E+00
FW	[m ³]	1,40E+02	2,15E+02	4,92E+02	0,00E+00	9,20E+00	0,00E+00	5,29E+00	0,00E+00
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 = Use of net fresh water								
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WASTE CATEGORIES AND OUTPUT FLOWS PER TON VIP 900									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	1,09E+02	1,02E+02	2,17E+02	0,00E+00	4,98E+00	0,00E+00	2,43E+00	0,00E+00
NHWD	[kg]	2,21E+01	1,20E+02	8,36E+01	0,00E+00	6,71E+00	0,00E+00	1,00E+03	0,00E+00
RWD	[kg]	4,10E-02	5,73E-02	1,33E-01	0,00E+00	2,43E-03	0,00E+00	1,86E-03	0,00E+00
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
MFR	[kg]	2,94E+00	2,47E+00	2,28E+01	0,00E+00	9,75E-02	0,00E+00	5,05E-02	0,00E+00
MER	[kg]	2,83E-01	1,52E+00	2,30E-01	0,00E+00	5,49E-02	0,00E+00	2,80E-02	0,00E+00
EEE	[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
EET	[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
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*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

ENVIRONMENTAL IMPACTS PER TON VIP 12 / VIP 1250									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	1,61E+02	1,54E+02	1,44E+02	0,00E+00	1,11E+01	0,00E+00	5,17E+00	0,00E+00
ODP	[kg CFC11-eq.]	2,17E-05	2,38E-05	8,48E-06	0,00E+00	1,85E-06	0,00E+00	1,68E-06	0,00E+00
AP	[kg SO ₂ -eq.]	7,08E-01	1,37E+00	2,86E-01	0,00E+00	2,81E-02	0,00E+00	3,77E-02	0,00E+00
EP	[kg PO ₄ ³⁻ -eq.]	2,43E-01	1,87E-01	1,71E-01	0,00E+00	6,00E-03	0,00E+00	7,97E-03	0,00E+00
POCP	[kg ethene-eq.]	2,98E-02	4,33E-02	1,83E-02	0,00E+00	1,36E-03	0,00E+00	1,56E-03	0,00E+00
ADPE	[kg Sb-eq.]	9,40E-03	4,60E-04	2,92E-04	0,00E+00	4,78E-05	0,00E+00	1,13E-05	0,00E+00
ADPF	[MJ]	8,13E+02	2,68E+02	7,16E+02	0,00E+00	2,15E+01	0,00E+00	1,10E+01	0,00E+00
Caption	GWP = Global warming potential; ODP = 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								
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RESOURCE USE PER TON VIP 12 / VIP 1250									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[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
PERM	[MJ]	1,47E+02	2,35E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PERT	[MJ]	1,47E+02	2,35E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PENRE	[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
PENRM	[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
PENRT	[MJ]	1,22E+03	3,02E+02	9,29E+02	0,00E+00	2,37E+01	0,00E+00	1,25E+01	0,00E+00
SM	[kg]	1,99E+01	2,12E+00	6,54E+01	0,00E+00	1,32E-01	0,00E+00	7,94E-02	0,00E+00
RSF	[MJ]	6,35E+00	2,69E-01	1,37E+01	0,00E+00	1,70E-02	0,00E+00	1,40E-02	0,00E+00
NRSF	[MJ]	6,09E+01	8,05E-01	2,68E+00	0,00E+00	3,41E-02	0,00E+00	2,01E-02	0,00E+00
FW	[m ³]	6,33E+02	1,37E+02	4,92E+02	0,00E+00	9,20E+00	0,00E+00	5,29E+00	0,00E+00
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 = Use of net fresh water								
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WASTE CATEGORIES AND OUTPUT FLOWS PER TON VIP 12 / VIP 1250									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3,03E+02	6,42E+01	2,17E+02	0,00E+00	4,98E+00	0,00E+00	2,43E+00	0,00E+00
NHWD	[kg]	2,58E+01	7,47E+01	8,36E+01	0,00E+00	6,71E+00	0,00E+00	1,00E+03	0,00E+00
RWD	[kg]	2,55E-01	3,63E-02	1,33E-01	0,00E+00	2,43E-03	0,00E+00	1,86E-03	0,00E+00
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
MFR	[kg]	1,18E+01	1,57E+00	2,28E+01	0,00E+00	9,75E-02	0,00E+00	5,05E-02	0,00E+00
MER	[kg]	3,71E-01	9,68E-01	2,30E-01	0,00E+00	5,49E-02	0,00E+00	2,80E-02	0,00E+00
EEE	[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
EET	[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
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*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

ENVIRONMENTAL IMPACTS PER TON VIP 12 HS									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	4,15E+02	1,89E+02	1,44E+02	0,00E+00	1,11E+01	0,00E+00	5,17E+00	0,00E+00
ODP	[kg CFC11-eq.]	4,12E-05	3,00E-05	8,48E-06	0,00E+00	1,85E-06	0,00E+00	1,68E-06	0,00E+00
AP	[kg SO ₂ -eq.]	1,52E+00	1,42E+00	2,86E-01	0,00E+00	2,81E-02	0,00E+00	3,77E-02	0,00E+00
EP	[kg PO ₄ ³⁻ -eq.]	4,22E-01	2,01E-01	1,71E-01	0,00E+00	6,00E-03	0,00E+00	7,97E-03	0,00E+00
POCP	[kg ethene-eq.]	6,34E-02	4,65E-02	1,83E-02	0,00E+00	1,36E-03	0,00E+00	1,56E-03	0,00E+00
ADPE	[kg Sb-eq.]	3,09E-03	5,81E-04	2,92E-04	0,00E+00	4,78E-05	0,00E+00	1,13E-05	0,00E+00
ADPF	[MJ]	1,21E+03	3,29E+02	7,16E+02	0,00E+00	2,15E+01	0,00E+00	1,10E+01	0,00E+00
Caption	GWP = Global warming potential; ODP = 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, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER TON VIP 12 HS									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[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
PERM	[MJ]	1,41E+02	2,76E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PERT	[MJ]	1,41E+02	2,76E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PENRE	[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
PENRM	[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
PENRT	[MJ]	1,45E+03	3,69E+02	9,29E+02	0,00E+00	2,37E+01	0,00E+00	1,25E+01	0,00E+00
SM	[kg]	1,50E+01	2,47E+00	6,54E+01	0,00E+00	1,32E-01	0,00E+00	7,94E-02	0,00E+00
RSF	[MJ]	2,12E+00	3,20E-01	1,37E+01	0,00E+00	1,70E-02	0,00E+00	1,40E-02	0,00E+00
NRSF	[MJ]	4,40E+01	8,84E-01	2,68E+00	0,00E+00	3,41E-02	0,00E+00	2,01E-02	0,00E+00
FW	[m ³]	8,09E+02	1,62E+02	4,92E+02	0,00E+00	9,20E+00	0,00E+00	5,29E+00	0,00E+00
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 = Use of net fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER TON VIP 12 HS									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	3,17E+02	7,81E+01	2,17E+02	0,00E+00	4,98E+00	0,00E+00	2,43E+00	0,00E+00
NHWD	[kg]	3,25E+01	1,03E+02	8,36E+01	0,00E+00	6,71E+00	0,00E+00	1,00E+03	0,00E+00
RWD	[kg]	1,63E-01	4,37E-02	1,33E-01	0,00E+00	2,43E-03	0,00E+00	1,86E-03	0,00E+00
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
MFR	[kg]	5,85E+00	1,83E+00	2,28E+01	0,00E+00	9,75E-02	0,00E+00	5,05E-02	0,00E+00
MER	[kg]	1,39E+00	1,10E+00	2,30E-01	0,00E+00	5,49E-02	0,00E+00	2,80E-02	0,00E+00
EEE	[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
EET	[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
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*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

ENVIRONMENTAL IMPACTS PER TON VIP 12 HT									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
GWP	[kg CO ₂ -eq.]	7,27E+01	2,19E+02	1,44E+02	0,00E+00	1,11E+01	0,00E+00	5,17E+00	0,00E+00
ODP	[kg CFC11-eq.]	8,29E-06	3,50E-05	8,48E-06	0,00E+00	1,85E-06	0,00E+00	1,68E-06	0,00E+00
AP	[kg SO ₂ -eq.]	2,88E-01	1,60E+00	2,86E-01	0,00E+00	2,81E-02	0,00E+00	3,77E-02	0,00E+00
EP	[kg PO ₄ ³⁻ -eq.]	8,60E-02	2,28E-01	1,71E-01	0,00E+00	6,00E-03	0,00E+00	7,97E-03	0,00E+00
POCP	[kg ethene-eq.]	1,23E-02	5,28E-02	1,83E-02	0,00E+00	1,36E-03	0,00E+00	1,56E-03	0,00E+00
ADPE	[kg Sb-eq.]	2,07E-03	6,78E-04	2,92E-04	0,00E+00	4,78E-05	0,00E+00	1,13E-05	0,00E+00
ADPF	[MJ]	2,58E+02	3,82E+02	7,16E+02	0,00E+00	2,15E+01	0,00E+00	1,10E+01	0,00E+00
Caption	GWP = Global warming potential; ODP = 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, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

RESOURCE USE PER TON VIP 12 HT									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
PERE	[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
PERM	[MJ]	2,69E+01	3,19E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PERT	[MJ]	2,69E+01	3,19E+01	4,52E+02	0,00E+00	1,52E+00	0,00E+00	8,51E-01	0,00E+00
PENRE	[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
PENRM	[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
PENRT	[MJ]	3,08E+02	4,28E+02	9,29E+02	0,00E+00	2,37E+01	0,00E+00	1,25E+01	0,00E+00
SM	[kg]	9,80E+00	2,85E+00	6,54E+01	0,00E+00	1,32E-01	0,00E+00	7,94E-02	0,00E+00
RSF	[MJ]	8,81E-01	3,70E-01	1,37E+01	0,00E+00	1,70E-02	0,00E+00	1,40E-02	0,00E+00
NRSF	[MJ]	3,00E+01	1,01E+00	2,68E+00	0,00E+00	3,41E-02	0,00E+00	2,01E-02	0,00E+00
FW	[m ³]	1,14E+02	1,87E+02	4,92E+02	0,00E+00	9,20E+00	0,00E+00	5,29E+00	0,00E+00
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 = Use of net fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER TON VIP 12 HT									
Parameter	Unit	A1	A2	A3	C1	C2	C3	C4	D
HWD	[kg]	8,76E+01	9,06E+01	2,17E+02	0,00E+00	4,98E+00	0,00E+00	2,43E+00	0,00E+00
NHWD	[kg]	1,77E+01	1,22E+02	8,36E+01	0,00E+00	6,71E+00	0,00E+00	1,00E+03	0,00E+00
RWD	[kg]	3,38E-02	5,06E-02	1,33E-01	0,00E+00	2,43E-03	0,00E+00	1,86E-03	0,00E+00
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
MFR	[kg]	2,53E+00	2,11E+00	2,28E+01	0,00E+00	9,75E-02	0,00E+00	5,05E-02	0,00E+00
MER	[kg]	2,28E-01	1,26E+00	2,30E-01	0,00E+00	5,49E-02	0,00E+00	2,80E-02	0,00E+00
EEE	[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
EET	[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
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*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

Checked and approved by



Kim Christiansen
Third party verifier of MD-22123-EN



Martha Katrine Sørensen
EPD Danmark