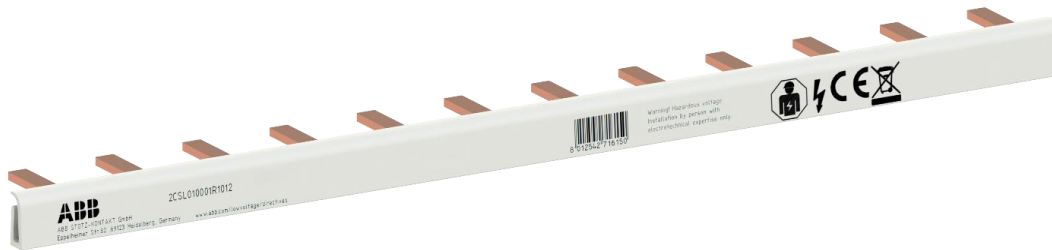


BB, BN, BSN, BF-SN & BVY Busbars

PEP ecopassport®

Product Environmental Profile



Registration number:	ABBG-01035-V01.02-EN	Drafting rules:	PCR-ed4-EN-2021 09 06
Contact information:	EPD_ELS8@abb.com	Supplemented by:	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation number:	VH45	Information and reference documents:	www.pep-ecopassport.org
Date of issue:	07-2026	Validity period:	5 years
Independent verification of the declaration and data in compliance with ISO 14025: 2006			
Internal:	☐	External:	☒
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (Ddomain)			
PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022 The components of the present PEP may not be compared with components from any other program.			
Document complies with ISO 14025:2006 "Environmental labels and declarations. Type III environmental declarations"			





ABB Purpose & Embedding Sustainability

ABB is committed to promoting and embedding sustainability across its operations and value chain, with the ambition of setting a benchmark in sustainability performance.

Through its Purpose, ABB focuses on reducing harmful emissions, preserving natural resources, and promoting ethical and responsible behaviour.

This PEP is not directly comparable with environmental declarations developed under other programme operators.



Scan the QR code for further information:

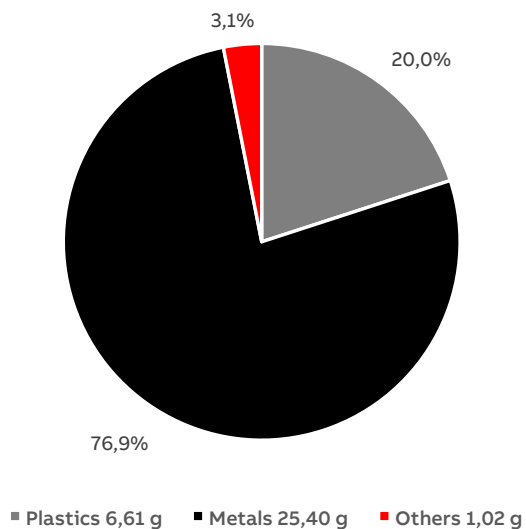


General information

Reference product	2CSL010001R1012 - BSN 1/12
Description of the product	Busbar for SN201 MCBs. Maximum rated current: 63A. Cross section 10 mm2, 1 phase, 12 pins
Functional unit	Ensure the conduction and distribution of electrical current of SN201 MCBs with a rated current of 63 A, a rated operational voltage of 400 V and a section of 10mm2 whilst protecting the user from direct contact with live parts, for domestic/commercial or industrial applications, according to the use scenario, and for the product's reference service life of 20 years.
Other products covered	The EPD also covers the following product families: Models: BB, BN, BSN, BF-SN & BVY, with the following characteristics: Pitch: 17.6 mm, 18 mm Section: 10 mm ² , 16 mm ² Connection type: Pin and fork Number of phases: 1, 2, 3, and 4 Number of pins: 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 15, 16, 18, 24, 36, 37, 40, 44, 46, 48, 54, 56, 57, 66, 108, 112 The scope also includes the associated accessories: end caps, feeder terminals, and shock protection caps.
PEP Owner address	ABB DESTO, STOTZ-KONTAKT GmbH - Eppelheimer Str. 82, 69123, Heidelberg www.new.abb.com/low-voltage



Constituent Materials



Total weight of reference product and packaging

33,0

g

Plastics as % of weight		Metals as % of weight		Others as % of weight	
Name and CAS number	Weight%	Name and CAS number	Weight%	Name and CAS number	Weight%
PC	20,0	Copper	76,9	Cardboard	3,1

Compatibility acc. Low Voltage directive 2014/35/EU, RoHS directive 2011/65/EU, 2015/863(EU) & REACH regulation No 1907/2006.



Additional Information

Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce the product and its packaging, transport to the manufacturing site and assembly. Production takes place mainly in Germany.
Distribution	Includes the transportation in its packaging from ABB DESTO plant to the Regional Distribution Centres until it reaches the final consumer.
Installation	Installation stage includes the installation of the products made manually and the end-of-life of packaging and additional parts. No energy is required.
Use	The product is a passive conductive component and does not actively consume energy during the use stage. However, it contributes to power losses due to its electrical resistance when current flows through it. Based on the use scenario parameters, the maximum total energy losses over the reference service life amount to 11.17 kWh. No consumables and maintenance is planned for the product.
End of life	Includes its transportation from the installation site to the final end of life treatment site, and end of life treatment processes. A value of 1000 km transport by lorry is used for the transportation.
Benefits and loads beyond the system boundaries	Prevented impacts of recycling materials.



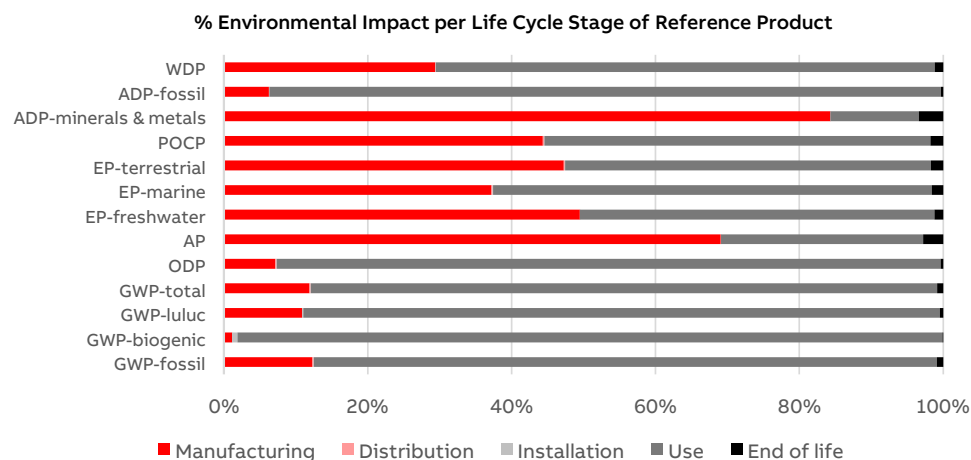
Environmental Impacts

Reference lifetime	20 years
Product category	Other equipment - Passive product - non-continuous operation
Installation elements	No installation materials are required. End-of-life of the packaging and additional parts are accounted for during the installation phase
Use scenario	Use scenario parameters acc. PSR: Load rate of 30% In Use time rate of 30% Reference service life of 20 years
Geographical representativeness	Europe
Technological representativeness	Materials and processes data are specific for the production of one busbar BSN 1/12
Software	SimaPro Craft 10.3
Database	ecoinvent Version 3.11

Energy model used

Manufacturing	Electricity, Medium Voltage {Germany} Market for Electricity, Medium Voltage Cut-off, S
Installation	No Energy Required
Use	Energy mix of european countries acc. to market share
End of life	Product Recycling

Common base of mandatory indicators



Environmental impact indicators

Indicator			Manufacturing		Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	3,60E+00	4,28E-01	4,86E-03	2,28E-03	3,13E+00	3,10E-02	-1,20E-01
	Fossil	kg CO2 eq.	3,45E+00	4,25E-01	4,86E-03	1,25E-03	2,99E+00	3,08E-02	-1,21E-01
	Biogenic	kg CO2 eq.	1,37E-01	1,53E-03	3,33E-06	1,02E-03	1,34E-01	1,59E-04	1,12E-03
	Luluc	kg CO2 eq.	6,93E-03	7,54E-04	1,61E-06	9,48E-06	6,13E-03	3,25E-05	-2,41E-04
ODP		kg CFC-11 eq.	7,55E-08	5,40E-09	1,06E-10	2,94E-11	6,97E-08	2,78E-10	-1,16E-09
AP		H+ eq.	4,10E-02	2,83E-02	1,56E-05	4,37E-06	1,15E-02	1,15E-03	-1,02E-02
EP	Freshwater	kg P eq.	4,67E-03	2,31E-03	3,32E-07	6,57E-07	2,30E-03	5,69E-05	-8,32E-04
	Marine	kg N eq.	3,87E-03	1,44E-03	5,25E-06	2,60E-06	2,36E-03	6,18E-05	-4,99E-04
	Terrestrial	mol N eq.	4,17E-02	1,97E-02	5,71E-05	1,55E-05	2,12E-02	7,08E-04	-7,02E-03
POCP		kg NMVOC eq.	1,27E-02	5,64E-03	2,37E-05	3,80E-06	6,83E-03	2,26E-04	-1,97E-03
ADP	Minerals & metals	kg SB eq.	4,28E-04	3,61E-04	1,64E-08	3,90E-09	5,26E-05	1,45E-05	-1,32E-04
	Fossil	MJ	9,38E+01	5,85E+00	6,89E-02	1,45E-02	8,75E+01	3,21E-01	-1,54E+00
WDP		m³ eq. depr.	1,42E+00	4,17E-01	2,67E-04	4,75E-04	9,84E-01	1,68E-02	-1,45E-01

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	2,02E+01	1,38E+00	1,09E-03	2,48E-03	1,88E+01	6,24E-02	-4,41E-01
PERM	MJ	4,05E-02	4,05E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,40E-02
PERT	MJ	2,03E+01	1,42E+00	1,09E-03	2,48E-03	1,88E+01	6,24E-02	-4,55E-01
PENRE	MJ	9,35E+01	5,63E+00	6,89E-02	1,45E-02	8,75E+01	3,21E-01	-1,54E+00
PENRM	MJ	2,22E-01	2,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	9,38E+01	5,85E+00	6,89E-02	1,45E-02	8,75E+01	3,21E-01	-1,54E+00

Common base of mandatory indicators

Use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m³	4,69E-02	1,05E-02	8,60E-06	1,65E-05	3,59E-02	4,31E-04	-3,59E-03

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	4,44E-03	9,92E-04	1,74E-06	2,33E-05	3,34E-03	8,12E-05	-7,96E-05
N-HWD	kg	4,01E-01	9,69E-02	3,30E-03	8,37E-04	2,79E-01	2,09E-02	-2,88E-02
RWD	kg	7,29E-04	1,35E-05	2,03E-08	2,24E-08	7,14E-04	9,86E-07	-3,45E-06

Output flow indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life
CfRu	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MfR	kg	2,59E-02	9,23E-03	0,00E+00	1,45E-03	0,00E+00	1,52E-02
MfER	kg	4,10E-03	3,42E-04	0,00E+00	4,62E-04	0,00E+00	3,30E-03
EE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Other indicators

Indicator		Unit	Total
Biogenic Carbon	Product	kg of C	1,10E-03
	Packaging	kg of C	0,00E+00

Optional indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
Tot PE	MJ	1,14E+02	7,28E+00	7,00E-02	1,70E-02	1,06E+02	3,83E-01	-1,99E+00
Efp	Dise inc	1,31E-07	6,54E-08	3,88E-10	3,88E-11	6,25E-08	2,88E-09	-2,30E-08
IrHH	kBq U-235 eq	2,90E+00	5,12E-02	8,22E-05	8,84E-05	2,84E+00	3,80E-03	-1,32E-02
ETX FW	CTUe	4,29E+01	3,22E+01	9,13E-03	1,82E-02	9,87E+00	8,46E-01	-1,15E+01
HTX CE	CTUh	4,00E-09	2,93E-09	8,24E-13	3,26E-13	9,18E-10	1,50E-10	-1,05E-09
HTX N-CE	CTUh	3,59E-07	2,94E-07	4,29E-11	2,01E-11	5,03E-08	1,48E-08	-1,07E-07
IrLS	Pt	2,73E+01	9,57E+00	4,07E-02	1,10E-02	1,72E+01	4,51E-01	-3,33E+00

Extrapolation Factors

Extrapolation factors are applied to derive environmental impacts for the product family, ensuring results consistent with product characteristics across impact categories, products and life cycle phases.

The final impact results per Product ID and per life cycle phase are reported at the end of this document, in Appendix A.

Glossary

Environmental impact Indicators			
GWP-total	Global Warming Potential total (Climate change)		
GWP-fossil	Global Warming Potential fossil		
GWP-biogenic	Global Warming Potential biogenic		
GWP-luluc	Global Warming Potential land use and land use change		
ODP	Depletion potential of the stratospheric ozone layer		
AP	Acidification potential		
EP-freshwater	Eutrophication potential - freshwater compartment		
EP-marine	Eutrophication potential - fraction of nutrients reaching marine end compartment		
EP-terrestrial	Eutrophication potential - Accumulated Exceedance		
POCP	Tropospheric ozone creation potential		
ADP-m&m	Abiotic Depletion for non-fossil resources potential		
ADP-fossil	Abiotic Depletion for fossil resources potential		
WDP	Water deprivation potential		
Resource indicators			
PENRE	Use of non-renewable primary energy excluding renewable primary energy resources used as raw material		
PENRM	Use of non-renewable primary energy resources used as raw material		
PENRT	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)		
PERE	Use of renewable primary energy excluding non-renewable primary energy resources used as raw material		
PERM	Use of renewable primary energy resources used as raw material		
PERT	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)		
Secondary materials, water and energy resources		Waste category indicators	
SM	Use of secondary materials	HWD	Hazardous waste disposed
RSF	Use of renewable secondary fuels	N-HWD	Non-hazardous waste disposed
NRSF	Use of non-renewable secondary fuels	RWD	Radioactive waste disposed
FW	Net use of fresh water		
Output flow indicators		Optional indicators	
CfRu	Components for re-use	Tot PE	Total use of primary energy during the life cycle
MfR	Materials for recycling		
MfER	Materials for energy recovery	Efp	Emissions of Fine particles
EE	Exported Energy	IrHH	Ionizing radiation, human health
		ETX FW	Ecotoxicity, freshwater
		HTX CE	Human toxicity, carcinogenic effects
		HTX N-CE	Human toxicity, non-carcinogenic effects
		IrLS	Impact related to Land use / soil quality
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References

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- [1] PCR "PEP-PCR-ed4-EN-2021_09_06" - Product Category Rules for Electrical, Electronic and HVAC-R Products (published: 6th September 2021)
 - [2] PSR "PSR-0005-ed3.1-EN-2023 12 08" - SPECIFIC RULES FOR Electrical switchgear and control gear Solutions
 - [3] EN 50693:2019 - Product category rules for life cycle assessments of electronic and electrical products and systems
 - [4] ISO 14040:2006 - Environmental management -Life cycle assessment - Principles and framework
 - [5] ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines
 - [6] ecoinvent v3.8 (2022). ecoinvent database version 3.8 - (<https://ecoinvent.org/>)
 - [7] SimaPro Software version 9.3.0.3 - PRé Sustainability
 - [8] UNI EN 15804:2012+A2:2019: Sustainability of constructions - Environmental product declarations (September 2019)
 - [9] IEC/TR 62635 - Guidelines for end-of-life information provided by manufacturers and recyclers and for recyclability rate calculation of electrical and electronic equipment - Edition 1.0 2012-10
 - [10] LB-DT 17-21D - RoHS II (MCCBs and ACBs)
 - [11] LB-DT 18-21D - REACH (MCCBs and ACBs)
 - [12] 1SDL000571R0 Ver 01 - RoHS Exemptions (MCCBs and ACBs)
 - [13] 1SDL000572R0 Ver 01 - SVHC present in excess of 0.1% (MCCBs and ACBs)
 - [14] ESSB-01035-V01.01-EN - BB, BN, BSN, BF-SN & BVY Busbars LCA Report

APPENDIX A

Environmental Impact of Manufacturing stage

Impact Category \ Product ID	2CSL01012R1012	2CSL010123R1012	2CSL010011R1012	2CSL010013R1012	2CSL010001R1012	2CSL010101R1012	2CSL010001R1056	2CSL010101R1056	2CSL010003R1012	2CSL010003R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL801145R1013	2CDL801141R1013
Climatic change - Total (kg CO2 eq.)	4.3E-01	1.0E+00	4.3E-01	1.0E+00	4.3E-01	4.3E-01	2.0E+00	2.0E+00	1.0E+00	5.7E+00	6.8E-01	1.3E+00	4.0E+00	4.9E+00	1.1E+00	1.8E+00	4.8E+00	6.3E+00	7.2E+00	2.3E+00	8.1E+00	9.3E+00	6.3E-01	7.8E-01	3.7E+00	4.6E+00	1.0E+00	1.7E+00	4.4E+00	5.8E+00	6.7E+00	1.3E+00	7.5E+00	8.6E+00	4.9E-01	4.9E-01
Climatic change - Fossil (kg CO2 eq.)	4.3E-01	1.0E+00	4.3E-01	1.0E+00	4.3E-01	4.3E-01	2.0E+00	2.0E+00	1.0E+00	5.7E+00	6.7E-01	1.3E+00	4.0E+00	4.9E+00	1.1E+00	1.8E+00	4.8E+00	6.3E+00	7.2E+00	2.3E+00	8.1E+00	9.3E+00	6.3E-01	7.7E-01	3.7E+00	4.6E+00	1.0E+00	1.7E+00	4.4E+00	5.8E+00	6.7E+00	1.3E+00	7.5E+00	8.6E+00	4.9E-01	4.9E-01
Climatic change - Biogenic (kg CO2 eq.)	1.5E-03	-2.0E-03	1.5E-03	-2.0E-03	1.5E-03	1.5E-03	-1.3E-03	-1.3E-03	-2.0E-03	-1.5E-02	5.1E-04	-6.7E-04	-3.2E-03	-4.3E-03	-9.4E-04	-2.1E-03	-7.4E-03	-1.0E-02	-7.1E-03	-3.5E-03	-1.2E-02	-7.9E-03	3.7E-04	4.2E-05	-4.1E-03	-5.4E-03	-1.2E-03	-2.5E-03	-8.4E-03	-1.1E-02	-8.7E-03	-2.4E-03	-1.4E-02	-1.0E-02	6.4E-04	6.4E-04
Climatic change - luluc (kg CO2 eq.)	7.5E-04	1.6E-03	7.5E-04	1.6E-03	7.5E-04	7.5E-04	3.6E-03	3.6E-03	1.6E-03	9.5E-03	1.1E-03	2.2E-03	6.9E-03	8.4E-03	1.8E-03	3.0E-03	8.1E-03	1.1E-02	1.2E-02	4.0E-03	1.4E-02	1.6E-02	1.0E-03	1.3E-03	6.3E-03	7.7E-03	1.7E-03	2.8E-03	7.5E-03	9.8E-03	1.1E-02	2.1E-03	1.3E-02	1.5E-02	8.5E-04	8.5E-04
Ozone depletion (kg CFC-11 eq.)	5.4E-09	9.5E-09	5.4E-09	9.5E-09	5.4E-09	5.4E-09	2.5E-08	2.5E-08	9.5E-09	5.4E-08	6.4E-09	1.2E-08	3.9E-08	4.8E-08	1.1E-08	1.7E-08	4.6E-08	6.1E-08	7.0E-08	2.3E-08	7.9E-08	9.1E-08	6.0E-09	7.4E-09	3.6E-08	4.4E-08	9.8E-09	1.6E-08	4.3E-08	5.6E-08	6.5E-08	1.2E-08	7.3E-08	8.4E-08	6.7E-09	6.7E-09
Acidification potential (AP) (mol H+ eq)	2.8E-02	6.4E-02	2.8E-02	6.4E-02	2.8E-02	2.8E-02	1.4E-01	1.4E-01	6.4E-02	3.8E-01	4.3E-02	8.7E-02	2.8E-01	3.4E-01	7.3E-02	1.2E-01	3.3E-01	4.3E-01	5.1E-01	1.6E-01	5.7E-01	6.6E-01	4.0E-02	5.0E-02	2.6E-01	3.1E-01	6.7E-02	1.1E-01	3.0E-01	4.0E-01	4.7E-01	8.3E-02	5.2E-01	6.1E-01	3.1E-02	3.1E-02
Freshwater eutrophication (kg P eq.)	2.3E-03	5.2E-03	2.3E-03	5.2E-03	2.3E-03	2.3E-03	1.1E-02	1.1E-02	5.2E-03	3.1E-02	3.5E-03	7.0E-03	2.2E-02	2.7E-02	5.9E-03	9.7E-03	2.7E-02	3.5E-02	4.1E-02	1.3E-02	4.6E-02	5.3E-02	3.2E-03	4.0E-03	2.1E-02	2.5E-02	5.4E-03	8.9E-03	2.4E-02	3.2E-02	3.7E-02	6.7E-03	4.2E-02	4.9E-02	2.6E-03	2.6E-03
Marine aquatic eutrophication (kg N eq.)	1.4E-03	3.3E-03	1.4E-03	3.3E-03	1.4E-03	1.4E-03	7.1E-03	7.1E-03	3.3E-03	1.9E-02	2.2E-03	4.4E-03	1.4E-02	1.7E-02	3.7E-03	6.1E-03	1.7E-02	2.2E-02	2.6E-02	8.1E-03	2.9E-02	3.3E-02	2.0E-03	2.6E-03	1.3E-02	1.6E-02	3.4E-03	5.6E-03	1.5E-02	2.0E-02	2.4E-02	4.3E-03	2.6E-02	3.1E-02	1.6E-03	1.6E-03
Terrestrial eutrophication (mol N eq.)	2.0E-02	4.5E-02	2.0E-02	4.5E-02	2.0E-02	2.0E-02	9.8E-02	9.8E-02	4.5E-02	2.7E-01	3.1E-02	6.1E-02	1.9E-01	2.4E-01	5.1E-02	8.5E-02	2.3E-01	3.0E-01	3.5E-01	1.1E-01	4.0E-01	4.6E-01	2.8E-02	3.5E-02	1.8E-01	2.2E-01	4.7E-02	7.8E-02	2.1E-01	2.8E-01	3.3E-01	5.9E-02	3.6E-01	4.2E-01	2.2E-02	2.2E-02
Photochemical ozone creation (POCP) (kg NMVOC eq.)	5.6E-03	1.3E-02	5.6E-03	1.3E-02	5.6E-03	5.6E-03	2.8E-02	2.8E-02	1.3E-02	7.6E-02	8.6E-03	1.7E-02	5.5E-02	6.7E-02	1.4E-02	2.4E-02	6.5E-02	8.6E-02	1.0E-01	3.1E-02	1.1E-01	1.3E-01	7.9E-03	9.9E-03	5.0E-02	6.2E-02	1.3E-02	2.2E-02	6.0E-02	7.9E-02	9.2E-02	1.7E-02	1.0E-01	1.2E-01	6.3E-03	6.3E-03
ADP-minerals & metals (kg Sb eq.)	3.6E-04	8.1E-04	3.6E-04	8.1E-04	3.6E-04	3.6E-04	1.8E-03	1.8E-03	8.1E-04	4.9E-03	5.5E-04	1.1E-03	3.6E-03	4.4E-03	9.3E-04	1.5E-03	4.2E-03	5.6E-03	6.5E-03	2.0E-03	7.3E-03	8.5E-03	5.1E-04	6.3E-04	3.3E-03	4.0E-03	8.5E-04	1.4E-03	3.9E-03	5.1E-03	6.0E-03	1.1E-03	6.7E-03	7.8E-03	4.0E-04	4.0E-04
ADP-fossil (MJ)	5.9E+00	1.3E+01	5.9E+00	1.3E+01	5.9E+00	5.9E+00	2.7E+01	2.7E+01	1.3E+01	7.6E+01	9.1E+00	1.7E+01	5.3E+01	6.5E+01	1.5E+01	2.4E+01	6.4E+01	8.4E+01	9.6E+01	3.1E+01	1.1E+02	1.2E+02	8.5E+00	1.0E+01	4.9E+01	6.1E+01	1.4E+01	2.2E+01	5.9E+01	7.8E+01	8.9E+01	1.7E+01	1.0E+02	1.1E+02	6.8E+00	6.8E+00
Water Deprivation potential (WDP) (m3 e depr.)	4.2E-01	6.9E-01	4.2E-01	6.9E-01	4.2E-01	4.2E-01	2.1E+00	2.1E+00	6.9E-01	4.4E+00	4.9E-01	1.0E+00	3.4E+00	4.1E+00	8.2E-01	1.4E+00	3.9E+00	5.2E+00	6.2E+00	1.9E+00	6.9E+00	8.2E+00	4.4E-01	5.9E-01	3.0E+00	3.7E+00	7.4E-01	1.3E+00	3.5E+00	4.7E+00	5.6E+00	9.2E-01	6.2E+00	7.5E+00	4.7E-01	4.7E-01
Emission of fine particles (incidence of diseases)	6.5E-08	1.5E-07	6.5E-08	1.5E-07	6.5E-08	6.5E-08	3.3E-07	3.3E-07	1.5E-07	8.8E-07	1.0E-07	2.0E-07	6.4E-07	7.9E-07	1.7E-07	2.8E-07	7.6E-07	1.0E-06	1.2E-06	3.7E-07	1.3E-06	1.5E-06	9.2E-08	1.2E-07	5.9E-07	7.2E-07	1.5E-07	2.6E-07	7.0E-07	9.2E-07	1.1E-06	1.9E-07	1.2E-06	1.4E-06	7.3E-08	7.3E-08
Ionizing radiation, human health (kBq of U235 equiv.)	5.1E-02	1.1E-01	5.1E-02	1.1E-01	5.1E-02	5.1E-02	2.3E-01	2.3E-01	1.1E-01	6.2E-01	7.6E-02	1.4E-01	4.5E-01	5.5E-01	1.2E-01	2.0E-01	5.3E-01	7.0E-01	8.1E-01	2.6E-01	9.0E-01	1.0E+00	7.0E-02	8.6E-02	4.1E-01	5.0E-01	1.1E-01	1.8E-01	4.9E-01	6.4E-01	7.4E-01	1.4E-01	8.3E-01	9.7E-01	5.8E-02	5.8E-02
Ecotoxicity (fresh water) (CTUe)	3.2E+01	7.1E+01	3.2E+01	7.1E+01	3.2E+01	3.2E+01	1.6E+02	1.6E+02	7.1E+01	4.2E+02	4.8E+01	9.6E+01	3.1E+02	3.8E+02	8.0E+01	1.3E+02	3.7E+02	4.8E+02	5.6E+02	1.8E+02	6.3E+02	7.4E+02	4.4E+01	5.5E+01	2.8E+02	3.5E+02	7.4E+01	1.2E+02	3.4E+02	4.4E+02	5.2E+02	9.3E+01	5.8E+02	6.8E+02	3.6E+01	3.6E+01
Human toxicity, carcinogenic effects (CTUh)	2.9E-09	6.6E-09	2.9E-09	6.6E-09	2.9E-09	2.9E-09	1.5E-08	1.5E-08	6.6E-09	3.9E-08	4.5E-09	8.9E-09	2.9E-08	3.5E-08	7.5E-09	1.2E-08	3.4E-08	4.5E-08	5.2E-08	1.6E-08	5.8E-08	6.8E-08	4.1E-09	5.1E-09	2.6E-08	3.2E-08	6.9E-09	1.1E-08	3.1E-08	4.1E-08	4.8E-08	8.6E-09	5.4E-08	6.3E-08	3.3E-09	3.3E-09
Human toxicity, non-carcinogenic effects (CTUh)	2.9E-07	6.7E-07	2.9E-07	6.7E-07	2.9E-07	2.9E-07	1.5E-06	1.5E-06	6.7E-07	4.0E-06	4.5E-07	9.0E-07	2.9E-06	3.6E-06	7.6E-07	1.3E-06	3.4E-06	4.5E-06	5.3E-06	1.7E-06	5.9E-06	6.9E-06	4.2E-07	5.2E-07	2.7E-06	3.3E-06	6.9E-07	1.2E-06	3.2E-06	4.2E-06	4.9E-06	8.7E-07	5.4E-06	6.4E-06	3.3E-07	3.3E-07
Impacts related to land use/soil quality (-)	9.6E+00	2.2E+01	9.6E+00	2.2E+01	9.6E+00	9.6E+00	4.8E+01	4.8E+01	2.2E+01	1.3E+02	1.5E+01	2.9E+01	9.3E+01	1.1E+02	2.4E+01	4.0E+01	1.1E+02	1.5E+02	1.7E+02	5.3E+01	1.9E+02	2.2E+02	1.3E+01	1.7E+01	8.5E+01	1.0E+02	2.2E+01	3.7E+01	1.0E+02	1.3E+02	1.6E+02	2.8E+01	1.7E+02	2.0E+02	1.1E+01	1.1E+01
PERE (MJ)	1.4E+00	3.0E+00	1.4E+00	3.0E+00	1.4E+00	1.4E+00	6.6E+00	6.6E+00	3.0E+00	1.7E+01	2.0E+00	4.0E+00	1.3E+01	1.6E+01	3.4E+00	5.6E+00	1.5E+01	2.0E+01	2.3E+01	7.3E+00	2.6E+01	3.0E+01	1.9E+00	2.3E+00	1.2E+01	1.4E+01	3.1E+00	5.1E+00	1.4E+01	1.8E+01	2.1E+01	3.9E+00	2.4E+01	2.8E+01	1.5E+00	1.5E+00
PERM (MJ)	4.1E-02	1.1E-01	4.1E-02	1.1E-01	4.1E-02	4.1E-02	2.0E-01	2.0E-01	1.1E-01	5.8E-01	6.4E-02	1.2E-01	3.4E-01	4.2E-01	1.1E-01	1.7E-01	4.4E-01	5.8E-01	6.2E-01	2.3E-01	7.3E-01	8.0E-01	6.1E-02	7.5E-02	3.3E-01	4.0E-01	1.1E-01	1.6E-01	4.2E-01	5.5E-01	6.0E-01	1.4E-01	7.0E-01	7.6E-01	5.4E-02	5.4E-02
PERT (MJ)	1.4E+00	3.1E+00	1.4E+00	3.1E+00	1.4E+00	1.4E+00	6.8E+00	6.8E+00	3.1E+00	1.8E+01	2.1E+00	4.1E+00	1.3E+01	1.6E+01	3.5E+00	5.7E+00	1.5E+01	2.0E+01	2.4E+01	7.5E+00	2.6E+01	3.1E+01	2.0E+00	2.4E+00	1.2E+01	1.5E+01	3.2E+00	5.3E+00	1.4E+01	1.9E+01	2.2E+01	4.0E+00	2.4E+01	2.8E+01	1.6E+00	1.6E+00
PENRE (MJ)	5.6E+00	1.3E+01	5.6E+00	1.3E+01	5.6E+00	5.6E+00	2.6E+01	2.6E+01	1.3E+01	7.2E+01	8.7E+00	1.7E+01	5.1E+01	6.3E+01	1.4E+01	2.3E+01	6.1E+01	8.1E+01	9.3E+01	3.0E+01	1.0E+02	1.2E+02	8.1E+00	9.9E+00	4.8E+01	5.8E+01	1.3E+01	2.1E+01	5.7E+01	7.5E+01	8.6E+01	1.6E+01	9.6E+01	1.1E+02	6.5E+00	6.5E+00
PENRM (MJ)	2.2E-01	6.6E-01	2.2E-01	6.6E-01	2.2E-01	2.2E-01	1.0E+00	1.0E+00	6.6E-01	3.2E+00	3.9E-01	7.1E-01	1.8E+00	2.2E+00	6.3E-01	9.5E-01	2.3E+00	3.0E+00	3.0E+00	1.2E+00	3.6E+00	3.6E+00	3.9E-01	4.7E-01	1.8E+00	2.2E+00	6.3E-01	9.5E-01	2.3E+00	3.0E+00	3.0E+00	7.9E-01	3.6E+00	3.6E+00	3.5E-01	3.5E-01
PENRT (MJ)	5.9E+00	1.3E+01	5.9E+00	1.3E+01	5.9E+00	5.9E+00	2.7E+01	2.7E+01	1.3E+01	7.6E+01	9.1E+00	1.7E+01	5.3E+01	6.5E+01	1.5E+01	2.4E+01	6.4E+01	8.4E+01	9.6E+01	3.1E+01	1.1E+02	1.2E+02	8.5E+00	1.0E+01	4.9E+01	6.1E+01	1.4E+01	2.2E+01	5.9E+01	7.8E+01	8.9E+01	1.7E+01	1.0E+02	1.1E+02	6.8E+00	6.8E+00
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+0		

APPENDIX A		Environmental Impact of Manufacturing stage																																			
Impact Category \ Product ID		2CDL810141R1003	2CDL810141R1037	2CDL830141R1037	2CDL810141R1005	2CDL802141R1055	2CDL802141R1018	2CDL820141R1040	2CDL803141R1111	2CDL833141R1011	2CDL803141R1024	2CDL833141R1024	2CDL830141R1066	2CDL804142R1110	2CDL804141R1055	2CDL840142R1012	2CDB927008R1018	2CDB927008R1156	2CDB927008R1056	2CDB927008R1656	2CDB937008R1018	2CDB937008R1157	2CDB937008R1057	2CDB937008R1657	2CDB947121R1618	2CDB947008R1054	2CDB947018R1654	2CDB947008R1654	2CDB947121R1654	2CDB947008R1156	2CDB947008R1056	2CDB947008R1656	2CDB947008R1009	2CDB926001R1018	2CDB926001R1156	2CDB926001R1056	2CDB926001R1656
Climatic change - Total (kg CO2 eq.)		1.1E-01	1.4E+00	1.4E+00	1.9E-01	8.2E+00	2.6E+00	2.9E+00	1.2E+01	1.2E+01	2.4E+00	2.4E+00	7.1E+00	1.7E+01	1.8E+01	1.9E+00	1.3E+00	4.2E+00	4.2E+00	4.8E+00	1.7E+00	6.0E+00	6.0E+00	6.9E+00	2.4E+00	7.3E+00	8.4E+00	8.4E+00	8.4E+00	7.6E+00	7.6E+00	8.8E+00	8.1E-01	1.2E+00	3.9E+00	3.9E+00	4.5E+00
Climatic change - Fossil (kg CO2 eq.)		1.1E-01	1.4E+00	1.4E+00	1.8E-01	8.2E+00	2.6E+00	2.9E+00	1.2E+01	1.2E+01	2.4E+00	2.4E+00	7.1E+00	1.7E+01	1.8E+01	1.9E+00	1.3E+00	4.2E+00	4.2E+00	4.8E+00	1.7E+00	6.0E+00	6.0E+00	6.9E+00	2.4E+00	7.3E+00	8.4E+00	8.4E+00	8.4E+00	7.6E+00	7.6E+00	8.8E+00	8.1E-01	1.2E+00	3.9E+00	3.9E+00	4.5E+00
Climatic change - Biogenic (kg CO2 eq.)		1.9E-03	-2.4E-03	-2.4E-03	1.7E-03	-2.3E-02	-6.1E-03	-7.0E-03	-3.4E-02	-3.4E-02	-6.2E-03	-6.2E-03	-2.0E-02	-4.5E-02	-4.5E-02	-2.1E-03	-5.2E-06	-4.2E-03	-4.2E-03	-2.3E-03	-1.4E-03	-7.8E-03	-7.8E-03	-5.0E-03	-2.0E-03	-1.0E-02	-7.0E-03	-7.0E-03	-7.0E-03	-1.1E-02	-1.1E-02	-7.3E-03	-1.1E-03	-2.8E-04	-5.2E-03	-5.2E-03	-3.4E-03
Climatic change - luluc (kg CO2 eq.)		1.8E-04	2.4E-03	2.4E-03	3.1E-04	1.5E-02	4.6E-03	5.1E-03	2.2E-02	2.2E-02	4.3E-03	4.3E-03	1.3E-02	3.0E-02	3.2E-02	3.2E-03	2.2E-03	7.4E-03	7.4E-03	8.6E-03	3.0E-03	1.1E-02	1.1E-02	1.2E-02	4.3E-03	1.3E-02	1.5E-02	1.5E-02	1.5E-02	1.3E-02	1.3E-02	1.6E-02	1.4E-03	2.1E-03	6.8E-03	6.8E-03	7.9E-03
Ozone depletion (kg CFC-11 eq.)		1.5E-09	1.9E-08	1.9E-08	2.5E-09	1.1E-07	3.3E-08	3.7E-08	1.5E-07	1.5E-07	3.1E-08	3.1E-08	9.0E-08	2.2E-07	2.3E-07	2.5E-08	1.7E-08	5.6E-08	5.6E-08	6.2E-08	2.3E-08	7.8E-08	7.8E-08	8.8E-08	3.1E-08	9.5E-08	1.1E-07	1.1E-07	1.1E-07	9.9E-08	9.9E-08	1.1E-07	1.2E-08	1.6E-08	5.2E-08	5.2E-08	5.8E-08
Acidification potential (AP) (mol H+ eq)		5.3E-03	9.4E-02	9.4E-02	1.1E-02	5.8E-01	1.8E-01	2.0E-01	8.8E-01	8.8E-01	1.7E-01	1.7E-01	5.1E-01	1.2E+00	1.3E+00	1.2E-01	8.6E-02	2.9E-01	2.9E-01	3.4E-01	1.2E-01	4.2E-01	4.2E-01	4.9E-01	1.7E-01	5.1E-01	6.0E-01	6.0E-01	6.0E-01	5.3E-01	5.3E-01	6.2E-01	5.1E-02	7.9E-02	2.7E-01	2.7E-01	3.1E-01
Freshwater eutrophication (kg P eq.)		4.6E-04	7.6E-03	7.6E-03	8.8E-04	4.7E-02	1.5E-02	1.6E-02	7.1E-02	7.1E-02	1.4E-02	1.4E-02	4.1E-02	9.7E-02	1.0E-01	9.6E-03	7.0E-03	2.3E-02	2.3E-02	2.7E-02	9.4E-03	3.4E-02	3.4E-02	3.9E-02	1.4E-02	4.1E-02	4.8E-02	4.8E-02	4.8E-02	4.3E-02	4.3E-02	5.0E-02	4.2E-03	6.4E-03	2.2E-02	2.2E-02	2.5E-02
Marine aquatic eutrophication (kg N eq.)		2.9E-04	4.8E-03	4.8E-03	5.5E-04	2.9E-02	9.0E-03	1.0E-02	4.4E-02	4.4E-02	8.5E-03	8.5E-03	2.5E-02	6.1E-02	6.4E-02	6.1E-03	4.4E-03	1.5E-02	1.5E-02	1.7E-02	5.9E-03	2.1E-02	2.1E-02	2.5E-02	8.5E-03	2.6E-02	3.0E-02	3.0E-02	3.0E-02	2.7E-02	2.7E-02	3.1E-02	2.6E-03	4.0E-03	1.3E-02	1.3E-02	1.6E-02
Terrestrial eutrophication (mol N eq.)		3.8E-03	6.6E-02	6.6E-02	7.4E-03	4.0E-01	1.2E-01	1.4E-01	6.1E-01	6.1E-01	1.2E-01	1.2E-01	3.5E-01	8.4E-01	8.9E-01	8.4E-02	6.0E-02	2.0E-01	2.0E-01	2.4E-01	8.1E-02	2.9E-01	2.9E-01	3.4E-01	1.2E-01	3.6E-01	4.2E-01	4.2E-01	4.2E-01	3.7E-01	3.7E-01	4.3E-01	3.6E-02	5.5E-02	1.9E-01	1.9E-01	2.2E-01
Photochemical ozone creation (POCP) (kg NMVOC eq.)		1.1E-03	1.9E-02	1.9E-02	2.1E-03	1.2E-01	3.6E-02	4.0E-02	1.7E-01	1.7E-01	3.4E-02	3.4E-02	1.0E-01	2.4E-01	2.5E-01	2.4E-02	1.7E-02	5.8E-02	5.8E-02	6.8E-02	2.3E-02	8.3E-02	8.3E-02	9.7E-02	3.3E-02	1.0E-01	1.2E-01	1.2E-01	1.2E-01	1.1E-01	1.1E-01	1.2E-01	1.0E-02	1.6E-02	5.3E-02	5.3E-02	6.2E-02
ADP-minerals & metals (kg Sb eq.)		6.7E-05	1.2E-03	1.2E-03	1.3E-04	7.4E-03	2.3E-03	2.6E-03	1.1E-02	1.1E-02	2.2E-03	2.2E-03	6.5E-03	1.5E-02	1.6E-02	1.5E-03	1.1E-03	3.7E-03	3.7E-03	4.3E-03	1.5E-03	5.3E-03	5.3E-03	6.3E-03	2.1E-03	6.6E-03	7.7E-03	7.7E-03	7.7E-03	6.8E-03	6.8E-03	8.0E-03	6.6E-04	1.0E-03	3.4E-03	3.4E-03	4.0E-03
ADP-fossil (MJ)		1.6E+00	2.0E+01	2.0E+01	2.6E+00	1.1E+02	3.5E+01	3.9E+01	1.7E+02	1.7E+02	3.3E+01	3.3E+01	9.7E+01	2.3E+02	2.5E+02	2.6E+01	1.8E+01	5.8E+01	5.8E+01	6.6E+01	2.4E+01	8.2E+01	8.2E+01	9.4E+01	3.3E+01	1.0E+02	1.1E+02	1.1E+02	1.0E+02	1.0E+02	1.0E+02	1.2E+02	1.1E+01	1.7E+01	5.4E+01	5.4E+01	6.1E+01
Water Deprivation potential (WDP) (m3 e depr.)		8.2E-02	1.4E+00	1.4E+00	1.6E-01	8.5E+00	2.6E+00	2.9E+00	1.3E+01	1.3E+01	2.5E+00	2.5E+00	7.4E+00	1.8E+01	1.9E+01	1.8E+00	1.3E+00	4.3E+00	4.3E+00	5.0E+00	1.7E+00	6.1E+00	6.1E+00	7.2E+00	2.5E+00	7.5E+00	8.8E+00	8.8E+00	8.8E+00	7.8E+00	7.8E+00	9.1E+00	7.7E-01	1.2E+00	3.9E+00	3.9E+00	4.6E+00
Emission of fine particles (incidence of diseases)		1.3E-08	2.2E-07	2.2E-07	2.5E-08	1.3E-06	4.2E-07	4.6E-07	2.0E-06	2.0E-06	3.9E-07	3.9E-07	1.2E-06	2.8E-06	3.0E-06	2.8E-07	2.0E-07	6.7E-07	6.7E-07	7.9E-07	2.7E-07	9.7E-07	9.7E-07	1.1E-06	3.9E-07	1.2E-06	1.4E-06	1.4E-06	1.4E-06	1.2E-06	1.2E-06	1.4E-06	1.2E-07	1.8E-07	6.2E-07	6.2E-07	7.2E-07
Ionizing radiation, human health (kBq of U235 equiv.)		1.5E-02	1.6E-01	1.6E-01	2.3E-02	9.4E-01	3.0E-01	3.3E-01	1.4E+00	1.4E+00	2.8E-01	2.8E-01	8.2E-01	1.9E+00	2.1E+00	2.1E-01	1.5E-01	4.8E-01	4.8E-01	5.5E-01	2.0E-01	6.8E-01	6.8E-01	7.9E-01	2.8E-01	8.4E-01	9.7E-01	9.7E-01	9.7E-01	8.7E-01	8.7E-01	1.0E+00	9.3E-02	1.4E-01	4.4E-01	4.4E-01	5.1E-01
Ecotoxicity (fresh water) (CTUe)		6.2E+00	1.1E+02	1.1E+02	1.2E+01	6.6E+02	2.0E+02	2.3E+02	9.9E+02	9.9E+02	1.9E+02	1.9E+02	5.8E+02	1.4E+03	1.5E+03	1.4E+02	9.9E+01	3.3E+02	3.3E+02	3.9E+02	1.3E+02	4.8E+02	4.8E+02	5.6E+02	1.9E+02	5.8E+02	6.8E+02	6.8E+02	6.8E+02	6.1E+02	6.1E+02	7.1E+02	6.0E+01	9.1E+01	3.1E+02	3.1E+02	3.6E+02
Human toxicity, carcinogenic effects (CTUh)		5.5E-10	9.8E-09	9.8E-09	1.1E-09	6.0E-08	1.9E-08	2.1E-08	9.1E-08	9.1E-08	1.8E-08	1.8E-08	5.2E-08	1.3E-07	1.3E-07	1.3E-08	9.0E-09	3.0E-08	3.0E-08	3.5E-08	1.2E-08	4.3E-08	4.3E-08	5.1E-08	1.7E-08	5.3E-08	6.2E-08	6.2E-08	6.2E-08	5.5E-08	5.5E-08	6.5E-08	5.4E-09	8.2E-09	2.8E-08	2.8E-08	3.2E-08
Human toxicity, non-carcinogenic effects (CTUh)		5.5E-08	9.8E-07	9.8E-07	1.1E-07	6.1E-06	1.9E-06	2.1E-06	9.1E-06	9.1E-06	1.8E-06	1.8E-06	5.3E-06	1.3E-05	1.3E-05	1.2E-06	9.0E-07	3.0E-06	3.0E-06	3.5E-06	1.2E-06	4.4E-06	4.4E-06	5.1E-06	1.7E-06	5.3E-06	6.2E-06	6.2E-06	6.2E-06	5.5E-06	5.5E-06	6.5E-06	5.3E-07	8.2E-07	2.8E-06	2.8E-06	3.2E-06
Impacts related to land use/soil quality (-)		1.9E+00	3.2E+01	3.2E+01	3.6E+00	2.0E+02	6.1E+01	6.8E+01	3.0E+02	3.0E+02	5.7E+01	5.7E+01	1.7E+02	4.1E+02	4.3E+02	4.1E+01	2.9E+01	9.8E+01	9.8E+01	1.1E+02	3.9E+01	1.4E+02	1.4E+02	1.6E+02	5.7E+01	1.7E+02	2.0E+02	2.0E+02	2.0E+02	1.8E+02	1.8E+02	2.1E+02	1.8E+01	2.7E+01	9.0E+01	9.0E+01	1.1E+02
PERE (MJ)		3.3E-01	4.5E+00	4.5E+00	5.7E-01	2.7E+01	8.4E+00	9.4E+00	4.0E+01	4.0E+01	7.9E+00	7.9E+00	2.3E+01	5.6E+01	5.9E+01	5.8E+00	4.1E+00	1.4E+01	1.4E+01	1.6E+01	5.5E+00	1.9E+01	1.9E+01	2.3E+01	7.9E+00	2.4E+01	2.8E+01	2.8E+01	2.8E+01	2.5E+01	2.5E+01	2.9E+01	2.5E+00	3.8E+00	1.3E+01	1.3E+01	1.5E+01
PERM (MJ)		1.1E-02	1.6E-01	1.6E-01	2.0E-02	9.2E-01	2.9E-01	3.2E-01	1.4E+00	1.4E+00	2.8E-01	2.8E-01	8.0E-01	1.8E+00	1.9E+00	2.1E-01	1.2E-01	3.9E-01	3.9E-01	4.2E-01	1.7E-01	5.7E-01	5.7E-01	6.1E-01	2.3E-01	7.											

APPENDIX A

Environmental Impact of Manufacturing stage

Impact Category \ Product ID	Product ID																											
	2CDB936001R1018	2CDB936001R1157	2CDB936001R1057	2CDB936001R1657	2CDB946001R1118	2CDB946001R1018	2CDB946001R1154	2CDB946001R1054	2CDB946001R1654	2CDB946001R1056	2CDB946001R1656	2CDB946011R1656	2CSL010000R0003	2CDL8000001R0021	2CDL8000001R0030	2CDL8000001R0040	2CDB806001R0011	2CDB806001R0021	2CDB806001R0031	2CDB806001R0032	2CDB806001R0041	2CDL8000001R2514	2CDL8000001R0051	2CDB806001R0051				
Climatic change - Total (kg CO2 eq.)	1.6E+00	5.6E+00	5.6E+00	6.4E+00	2.0E+00	2.0E+00	6.8E+00	6.8E+00	7.8E+00	7.0E+00	8.1E+00	8.1E+00	1.2E-02	1.2E-02	1.2E-02	1.2E-02	9.6E-03	1.2E-02	1.2E-02	1.2E-02	1.2E-02	1.0E-01	3.5E-02	3.5E-02				
Climatic change - Fossil (kg CO2 eq.)	1.6E+00	5.6E+00	5.6E+00	6.4E+00	2.0E+00	2.0E+00	6.8E+00	6.8E+00	7.8E+00	7.0E+00	8.1E+00	8.1E+00	1.1E-02	1.1E-02	1.1E-02	1.1E-02	9.2E-03	1.1E-02	1.1E-02	1.1E-02	1.1E-02	1.0E-01	3.7E-02	3.7E-02				
Climatic change - Biogenic (kg CO2 eq.)	-1.8E-03	-9.1E-03	-9.1E-03	-6.6E-03	-3.4E-03	-3.4E-03	-1.2E-02	-1.2E-02	-9.0E-03	-1.3E-02	-9.3E-03	-9.3E-03	3.3E-04	3.5E-04	3.3E-04	3.1E-04	3.5E-04	3.5E-04	3.3E-04	3.3E-04	3.1E-04	-4.0E-05	-2.7E-03	-2.7E-03				
Climatic change - luluc (kg CO2 eq.)	2.8E-03	9.7E-03	9.7E-03	1.1E-02	3.4E-03	3.4E-03	1.2E-02	1.2E-02	1.4E-02	1.2E-02	1.4E-02	1.4E-02	6.5E-06	6.5E-06	6.5E-06	6.6E-06	5.1E-06	6.5E-06	6.5E-06	6.5E-06	6.6E-06	1.9E-04	2.1E-05	2.1E-05				
Ozone depletion (kg CFC-11 eq.)	2.2E-08	7.4E-08	7.4E-08	8.2E-08	2.7E-08	2.7E-08	9.0E-08	9.0E-08	1.0E-07	9.3E-08	1.0E-07	1.0E-07	1.1E-10	1.1E-10	1.1E-10	1.2E-10	3.9E-11	1.1E-10	1.1E-10	1.1E-10	1.2E-10	1.3E-09	3.0E-10	3.0E-10				
Acidification potential (AP) (mol H+ eq)	1.1E-01	3.8E-01	3.8E-01	4.5E-01	1.3E-01	1.3E-01	4.7E-01	4.7E-01	5.5E-01	4.9E-01	5.7E-01	5.7E-01	1.6E-05	1.5E-05	1.6E-05	1.6E-05	8.6E-06	1.5E-05	1.6E-05	1.6E-05	1.6E-05	5.5E-03	1.0E-04	1.0E-04				
Freshwater eutrophication (kg P eq.)	8.6E-03	3.1E-02	3.1E-02	3.6E-02	1.1E-02	1.1E-02	3.8E-02	3.8E-02	4.4E-02	3.9E-02	4.6E-02	4.6E-02	4.6E-06	4.6E-06	4.6E-06	4.6E-06	4.0E-06	4.6E-06	4.6E-06	4.6E-06	4.6E-06	4.5E-04	8.1E-06	8.1E-06				
Marine aquatic eutrophication (kg N eq.)	5.4E-03	1.9E-02	1.9E-02	2.3E-02	6.7E-03	6.7E-03	2.4E-02	2.4E-02	2.8E-02	2.5E-02	2.9E-02	2.9E-02	4.5E-06	4.5E-06	4.5E-06	4.5E-06	3.2E-06	4.5E-06	4.5E-06	4.5E-06	4.5E-06	3.0E-04	2.9E-05	2.9E-05				
Terrestrial eutrophication (mol N eq.)	7.4E-02	2.7E-01	2.7E-01	3.1E-01	9.2E-02	9.2E-02	3.3E-01	3.3E-01	3.8E-01	3.4E-01	4.0E-01	4.0E-01	3.6E-05	3.6E-05	3.6E-05	3.6E-05	2.3E-05	3.6E-05	3.6E-05	3.6E-05	3.6E-05	4.1E-03	2.5E-04	2.5E-04				
Photochemical ozone creation (POCP) (kg NMVOC eq.)	2.1E-02	7.7E-02	7.7E-02	8.9E-02	2.6E-02	2.6E-02	9.4E-02	9.4E-02	1.1E-01	9.7E-02	1.1E-01	1.1E-01	1.5E-05	1.4E-05	1.5E-05	1.5E-05	7.5E-06	1.4E-05	1.5E-05	1.5E-05	1.5E-05	1.2E-03	8.4E-05	8.4E-05				
ADP-minerals & metals (kg Sb eq.)	1.4E-03	4.9E-03	4.9E-03	5.7E-03	1.7E-03	1.7E-03	6.0E-03	6.0E-03	7.0E-03	6.3E-03	7.3E-03	7.3E-03	2.5E-08	2.5E-08	2.5E-08	2.5E-08	8.1E-09	2.5E-08	2.5E-08	2.5E-08	2.5E-08	7.3E-05	3.6E-08	3.6E-08				
ADP-fossil (MJ)	2.2E+01	7.7E+01	7.7E+01	8.7E+01	2.7E+01	2.7E+01	9.3E+01	9.3E+01	1.1E+02	9.7E+01	1.1E+02	1.1E+02	9.3E-02	9.2E-02	9.3E-02	9.3E-02	5.1E-02	9.2E-02	9.3E-02	9.3E-02	9.3E-02	1.4E+00	6.7E-01	6.7E-01				
Water Deprivation potential (WDP) (m3 e depr.)	1.6E+00	5.7E+00	5.7E+00	6.6E+00	2.0E+00	2.0E+00	6.9E+00	6.9E+00	8.1E+00	7.2E+00	8.4E+00	8.4E+00	9.6E-04	9.5E-04	9.6E-04	9.6E-04	4.0E-04	9.5E-04	9.6E-04	9.6E-04	9.6E-04	8.9E-02	-9.1E-03	-9.1E-03				
Emission of fine particles (incidence of diseases)	2.5E-07	8.9E-07	8.9E-07	1.0E-06	3.1E-07	3.1E-07	1.1E-06	1.1E-06	1.3E-06	1.1E-06	1.3E-06	1.3E-06	1.2E-10	1.1E-10	1.2E-10	1.2E-10	6.1E-11	1.1E-10	1.2E-10	1.2E-10	1.2E-10	1.4E-08	9.1E-10	9.1E-10				
Ionizing radiation, human health (kBq of U235 equiv.)	1.8E-01	6.3E-01	6.3E-01	7.3E-01	2.2E-01	2.2E-01	7.7E-01	7.7E-01	8.9E-01	8.0E-01	9.3E-01	9.3E-01	8.5E-04	8.5E-04	8.5E-04	8.5E-04	6.3E-04	8.5E-04	8.5E-04	8.5E-04	8.5E-04	1.3E-02	6.6E-03	6.6E-03				
Ecotoxicity (fresh water) (CTUe)	1.2E+02	4.4E+02	4.4E+02	5.1E+02	1.5E+02	1.5E+02	5.4E+02	5.4E+02	6.3E+02	5.6E+02	6.5E+02	6.5E+02	5.5E-02	5.4E-02	5.5E-02	5.5E-02	1.2E-02	5.4E-02	5.5E-02	5.5E-02	5.5E-02	7.4E+00	1.3E-01	1.3E-01				
Human toxicity, carcinogenic effects (CTUh)	1.1E-08	4.0E-08	4.0E-08	4.7E-08	1.4E-08	1.4E-08	4.9E-08	4.9E-08	5.7E-08	5.1E-08	5.9E-08	5.9E-08	2.3E-12	2.3E-12	2.3E-12	2.4E-12	6.4E-13	2.3E-12	2.3E-12	2.3E-12	2.4E-12	6.2E-10	4.2E-11	4.2E-11				
Human toxicity, non-carcinogenic effects (CTUh)	1.1E-06	4.0E-06	4.0E-06	4.7E-06	1.4E-06	1.4E-06	4.9E-06	4.9E-06	5.7E-06	5.1E-06	6.0E-06	6.0E-06	4.5E-11	4.4E-11	4.5E-11	4.5E-11	2.8E-11	4.4E-11	4.5E-11	4.5E-11	4.5E-11	5.7E-08	4.2E-09	4.2E-09				
Impacts related to land use/soil quality (-)	3.6E+01	1.3E+02	1.3E+02	1.5E+02	4.5E+01	4.5E+01	1.6E+02	1.6E+02	1.9E+02	1.7E+02	1.9E+02	1.9E+02	2.1E-02	1.9E-02	2.1E-02	2.3E-02	1.2E-02	1.9E-02	2.1E-02	2.1E-02	2.3E-02	2.0E+00	2.7E-01	2.7E-01				
PERE (MJ)	5.1E+00	1.8E+01	1.8E+01	2.1E+01	6.2E+00	6.2E+00	2.2E+01	2.2E+01	2.5E+01	2.3E+01	2.6E+01	2.6E+01	1.1E-02	1.1E-02	1.1E-02	1.1E-02	8.9E-03	1.1E-02	1.1E-02	1.1E-02	1.1E-02	3.0E-01	3.0E-02	3.0E-02				
PERM (MJ)	1.6E-01	5.4E-01	5.4E-01	5.9E-01	2.1E-01	2.1E-01	6.7E-01	6.7E-01	7.2E-01	7.0E-01	7.5E-01	7.5E-01	4.7E-04	2.5E-04	4.7E-04	6.8E-04	2.0E-04	2.5E-04	4.7E-04	4.7E-04	6.8E-04	1.8E-02	3.2E-02	3.2E-02				
PERT (MJ)	5.2E+00	1.8E+01	1.8E+01	2.1E+01	6.4E+00	6.4E+00	2.3E+01	2.3E+01	2.6E+01	2.3E+01	2.7E+01	2.7E+01	1.2E-02	1.1E-02	1.2E-02	1.2E-02	9.1E-03	1.1E-02	1.2E-02	1.2E-02	1.2E-02	3.2E-01	6.1E-02	6.1E-02				
PENRE (MJ)	2.1E+01	7.3E+01	7.3E+01	8.4E+01	2.6E+01	2.6E+01	8.9E+01	8.9E+01	1.0E+02	9.3E+01	1.1E+02	1.1E+02	8.1E-02	8.0E-02	8.1E-02	8.1E-02	4.9E-02	8.0E-02	8.1E-02	8.1E-02	8.1E-02	1.4E+00	5.3E-01	5.3E-01				
PENRM (MJ)	1.1E+00	3.6E+00	3.6E+00	3.6E+00	1.4E+00	1.4E+00	4.2E+00	4.2E+00	4.3E+00	4.4E+00	4.4E+00	4.4E+00	1.2E-02	1.2E-02	1.2E-02	1.2E-02	2.2E-03	1.2E-02	1.2E-02	1.2E-02	1.2E-02	3.2E-02	1.4E-01	1.4E-01				
PENRT (MJ)	2.2E+01	7.7E+01	7.7E+01	8.7E+01	2.7E+01	2.7E+01	9.3E+01	9.3E+01	1.1E+02	9.7E+01	1.1E+02	1.1E+02	9.3E-02	9.2E-02	9.3E-02	9.3E-02	5.1E-02	9.2E-02	9.3E-02	9.3E-02	9.3E-02	1.4E+00	6.7E-01	6.7E-01				
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Use of renewables secondary fuels (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Use of non-renewables secondary fuels (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Net freshwater use (m3)	4.0E-02	1.4E-01	1.4E-01	1.6E-01	4.9E-02	4.9E-02	1.7E-01	1.7E-01	2.0E-01	1.8E-01	2.1E-01	2.1E-01	3.8E-05	3.8E-05	3.8E-05	3.8E-05	2.1E-05	3.8E-05	3.8E-05	3.8E-05	3.8E-05	2.3E-03	-1.6E-04	-1.6E-04				
Total use of primary energy (MJ)	2.7E+01	9.5E+01	9.5E+01	1.1E+02	3.4E+01	3.4E+01	1.2E+02	1.2E+02	1.3E+02	1.2E+02	1.4E+02	1.4E+02	1.0E-01	1.0E-01	1.0E-01	1.1E-01	6.0E-02	1.0E-01	1.0E-01	1.0E-01	1.1E-01	1.7E+00	7.3E-01	7.3E-01				
Hazardous waste disposed (kg)	3.7E-03	1.3E-02	1.3E-02	1.6E-02	4.6E-03	4.6E-03	1.6E-02	1.6E-02	1.9E-02	1.7E-02	2.0E-02	2.0E-02	1.0E-04	1.0E-04	1.0E-04	1.0E-04	9.9E-05	1.0E-04	1.0E-04	1.0E-04	1.0E-04	4.9E-04	1.6E-05	1.6E-05				
Non-hazardous waste disposed (kg)	3.7E-01	1.3E+00	1.3E+00	1.5E+00	4.5E-01	4.5E-01	1.6E+00	1.6E+00	1.9E+00	1.7E+00	1.9E+00	1.9E+00	1.6E-03	1.6E-03	1.6E-03	1.6E-03	1.4E-03	1.6E-03	1.6E-03	1.6E-03	1.6E-03	2.2E-02	1.8E-03	1.8E-03				
Radioactive waste disposed (kg)	4.8E-05	1.6E-04	1.6E-04	1.9E-04	5.8E-05	5.8E-05	2.0E-04	2.0E-04	2.3E-04	2.1E-04	2.4E-04	2.4E-04	2.4E-07	2.4E-07	2.4E-07	2.4E-07	1.8E-07	2.4E-07	2.4E-07	2.4E-07	2.4E-07	3.3E-06	5.6E-07	5.6E-07				
Components for re-use (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Material for recycling (kg)	3.5E-02	1.3E-01	1.3E-01	1.5E-01	4.3E-02	4.3E-02	1.5E-01	1.5E-01	1.8E-01	1.6E-01	1.9E-01	1.9E-01	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	2.1E-03	3.8E-03	1.4E-04	1.4E-04				
Materials for energy recovery (kg)	1.7E-03	5.5E-03	5.5E-03	5.5E-03	2.2E-03	2.2E-03	6.5E-03	6.5E-03	6.6E-03	6.8E-03	6.8E-03	6.8E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	1.9E-03	5.1E-05	2.2E-04	2.2E-04				
Exported energy (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00				
Biogenic carbon content - product (kg of C.)	4.4E-03	1.5E-02	1.5E-02	1.6E-02	5.6E-03	5.6E-03	1.8E-02	1.8E-02	2.0E-02	1.9E-02	2.1E-02	2.1E-02	1.4E-05	7.5E-06	1.4E-05	2.0E-05	6.0E-06	7.5E-06	1.4E-05	1.4E-05	2.0E-05	4.7E-04	7.6E-04	7.6E-04				
Biogenic carbon content - packaging (kg of C.)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00							

APPENDIX A		Environmental Impact of Distribution stage																																			
Impact Category \ Product	ID	2CSL01012R1012	2CSL01012R1012	2CSL01001R1012	2CSL01001R1012	2CSL01000R1012	2CSL01010R1012	2CSL01000R1056	2CSL01010R1056	2CSL01000R1012	2CSL01000R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL80114R1013	2CDL80114R1013
Climatic change - Total (kg CO2 eq.)		4.9E-03	1.2E-02	4.9E-03	1.2E-02	4.9E-03	4.9E-03	2.4E-02	2.4E-02	1.2E-02	6.9E-02	8.0E-03	1.6E-02	4.8E-02	5.8E-02	1.3E-02	2.2E-02	5.7E-02	7.5E-02	8.5E-02	2.8E-02	9.6E-02	1.1E-01	7.6E-03	9.3E-03	4.4E-02	5.4E-02	1.3E-02	2.0E-02	5.4E-02	7.1E-02	8.0E-02	1.6E-02	9.0E-02	1.0E-01	5.9E-03	5.9E-03
Climatic change - Fossil (kg CO2 eq.)		4.9E-03	1.2E-02	4.9E-03	1.2E-02	4.9E-03	4.9E-03	2.4E-02	2.4E-02	1.2E-02	6.9E-02	8.0E-03	1.6E-02	4.7E-02	5.8E-02	1.3E-02	2.2E-02	5.7E-02	7.5E-02	8.5E-02	2.8E-02	9.6E-02	1.1E-01	7.6E-03	9.3E-03	4.4E-02	5.4E-02	1.3E-02	2.0E-02	5.4E-02	7.0E-02	7.9E-02	1.6E-02	9.0E-02	1.0E-01	5.9E-03	5.9E-03
Climatic change - Biogenic (kg CO2 eq.)		3.3E-06	8.5E-06	3.3E-06	8.5E-06	3.3E-06	3.3E-06	1.6E-05	1.6E-05	8.5E-06	4.8E-05	5.5E-06	1.1E-05	3.3E-05	4.0E-05	9.1E-06	1.5E-05	3.9E-05	5.2E-05	5.8E-05	1.9E-05	6.6E-05	7.5E-05	5.2E-06	6.4E-06	3.0E-05	3.7E-05	8.6E-06	1.4E-05	3.7E-05	4.8E-05	5.4E-05	1.1E-05	6.2E-05	7.0E-05	4.0E-06	4.0E-06
Climatic change - luluc (kg CO2 eq.)		1.6E-06	4.1E-06	1.6E-06	4.1E-06	1.6E-06	1.6E-06	7.9E-06	7.9E-06	4.1E-06	2.3E-05	2.7E-06	5.2E-06	1.6E-05	1.9E-05	4.4E-06	7.1E-06	1.9E-05	2.5E-05	2.8E-05	9.3E-06	3.2E-05	3.6E-05	2.5E-06	3.1E-06	1.5E-05	1.8E-05	4.1E-06	6.7E-06	1.8E-05	2.3E-05	2.6E-05	5.2E-06	3.0E-05	3.4E-05	2.0E-06	2.0E-06
Ozone depletion (kg CFC-11 eq.)		1.1E-10	2.7E-10	1.1E-10	2.7E-10	1.1E-10	1.1E-10	5.2E-10	5.2E-10	2.7E-10	1.5E-09	1.8E-10	3.4E-10	1.0E-09	1.3E-09	2.9E-10	4.7E-10	1.3E-09	1.6E-09	1.9E-09	6.1E-10	2.1E-09	2.4E-09	1.6E-10	2.0E-10	9.7E-10	1.2E-09	2.7E-10	4.4E-10	1.2E-09	1.5E-09	1.7E-09	3.4E-10	2.0E-09	2.2E-09	1.3E-10	1.3E-10
Acidification potential (AP) (mol H+ eq)		1.6E-05	4.0E-05	1.6E-05	4.0E-05	1.6E-05	1.6E-05	7.7E-05	7.7E-05	4.0E-05	2.2E-04	2.6E-05	5.0E-05	1.5E-04	1.9E-04	4.3E-05	6.9E-05	1.8E-04	2.4E-04	2.7E-04	9.0E-05	3.1E-04	3.5E-04	2.4E-05	3.0E-05	1.4E-04	1.7E-04	4.0E-05	6.5E-05	1.7E-04	2.3E-04	2.6E-04	5.0E-05	2.9E-04	3.3E-04	1.9E-05	1.9E-05
Freshwater eutrophication (kg P eq.)		3.3E-07	8.4E-07	3.3E-07	8.4E-07	3.3E-07	3.3E-07	1.6E-06	1.6E-06	8.4E-07	4.7E-06	5.5E-07	1.1E-06	3.2E-06	4.0E-06	9.1E-07	1.5E-06	3.9E-06	5.1E-06	5.8E-06	1.9E-06	6.6E-06	7.4E-06	5.2E-07	6.4E-07	3.0E-06	3.7E-06	8.5E-07	1.4E-06	3.7E-06	4.8E-06	5.4E-06	1.1E-06	6.1E-06	6.9E-06	4.0E-07	4.0E-07
Marine aquatic eutrophication (kg N eq.)		5.3E-06	1.3E-05	5.3E-06	1.3E-05	5.3E-06	5.3E-06	2.6E-05	2.6E-05	1.3E-05	7.5E-05	8.7E-06	1.7E-05	5.1E-05	6.3E-05	1.4E-05	2.3E-05	6.2E-05	8.1E-05	9.2E-05	3.0E-05	1.0E-04	1.2E-04	8.2E-06	1.0E-05	4.8E-05	5.9E-05	1.4E-05	2.2E-05	5.8E-05	7.6E-05	8.6E-05	1.7E-05	9.7E-05	1.1E-04	6.4E-06	6.4E-06
Terrestrial eutrophication (mol N eq.)		5.7E-05	1.5E-04	5.7E-05	1.5E-04	5.7E-05	5.7E-05	2.8E-04	2.8E-04	1.5E-04	8.2E-04	9.4E-05	1.8E-04	5.6E-04	6.8E-04	1.6E-04	2.5E-04	6.7E-04	8.8E-04	1.0E-03	3.3E-04	1.1E-03	1.3E-03	8.9E-05	1.1E-04	5.2E-04	6.4E-04	1.5E-04	2.4E-04	6.3E-04	8.3E-04	9.3E-04	1.8E-04	1.1E-03	1.2E-03	6.9E-05	6.9E-05
Photochemical ozone creation (POCP) (kg NMVOC eq.)		2.4E-05	6.0E-05	2.4E-05	6.0E-05	2.4E-05	2.4E-05	1.2E-04	1.2E-04	6.0E-05	3.4E-04	3.9E-05	7.6E-05	2.3E-04	2.8E-04	6.5E-05	1.0E-04	2.8E-04	3.7E-04	4.1E-04	1.4E-04	4.7E-04	5.3E-04	3.7E-05	4.5E-05	2.2E-04	2.6E-04	6.1E-05	9.9E-05	2.6E-04	3.4E-04	3.9E-04	7.6E-05	4.4E-04	5.0E-04	2.9E-05	2.9E-05
ADP-minerals & metals (kg Sb eq.)		1.6E-08	4.2E-08	1.6E-08	4.2E-08	1.6E-08	1.6E-08	8.1E-08	8.1E-08	4.2E-08	2.3E-07	2.7E-08	5.3E-08	1.6E-07	2.0E-07	4.5E-08	7.3E-08	1.9E-07	2.5E-07	2.9E-07	9.5E-08	3.2E-07	3.7E-07	2.5E-08	3.1E-08	1.5E-07	1.8E-07	4.2E-08	6.8E-08	1.8E-07	2.4E-07	2.7E-07	5.3E-08	3.0E-07	3.4E-07	2.0E-08	2.0E-08
ADP-fossil (MJ)		6.9E-02	1.8E-01	6.9E-02	1.8E-01	6.9E-02	6.9E-02	3.4E-01	3.4E-01	1.8E-01	9.8E-01	1.1E-01	2.2E-01	6.7E-01	8.2E-01	1.9E-01	3.1E-01	8.1E-01	1.1E+00	1.2E+00	4.0E-01	1.4E+00	1.5E+00	1.1E-01	1.3E-01	6.3E-01	7.7E-01	1.8E-01	2.9E-01	7.6E-01	1.0E+00	1.1E+00	2.2E-01	1.3E+00	1.4E+00	8.4E-02	8.4E-02
Water Deprivation potential (WDP) (m3 e depr.)		2.7E-04	6.8E-04	2.7E-04	6.8E-04	2.7E-04	2.7E-04	1.3E-03	1.3E-03	6.8E-04	3.8E-03	4.4E-04	8.6E-04	2.6E-03	3.2E-03	7.3E-04	1.2E-03	3.2E-03	4.1E-03	4.7E-03	1.5E-03	5.3E-03	6.0E-03	4.2E-04	5.1E-04	2.4E-03	3.0E-03	6.9E-04	1.1E-03	3.0E-03	3.9E-03	4.4E-03	8.6E-04	5.0E-03	5.6E-03	3.2E-04	3.2E-04
Emission of fine particles (incidence of diseases)		3.9E-10	9.9E-10	3.9E-10	9.9E-10	3.9E-10	3.9E-10	1.9E-09	1.9E-09	9.9E-10	5.5E-09	6.4E-10	1.2E-09	3.8E-09	4.6E-09	1.1E-09	1.7E-09	4.6E-09	6.0E-09	6.8E-09	2.2E-09	7.7E-09	8.7E-09	6.0E-10	7.5E-10	3.6E-09	4.3E-09	1.0E-09	1.6E-09	4.3E-09	5.6E-09	6.4E-09	1.3E-09	7.2E-09	8.1E-09	4.7E-10	4.7E-10
Ionizing radiation, human health (kBq of U235 equiv.)		8.2E-05	2.1E-04	8.2E-05	2.1E-04	8.2E-05	8.2E-05	4.0E-04	4.0E-04	2.1E-04	1.2E-03	1.4E-04	2.6E-04	8.0E-04	9.8E-04	2.3E-04	3.6E-04	9.7E-04	1.3E-03	1.4E-03	4.7E-04	1.6E-03	1.8E-03	1.3E-04	1.6E-04	7.5E-04	9.2E-04	2.1E-04	3.4E-04	9.1E-04	1.2E-03	1.3E-03	2.7E-04	1.5E-03	1.7E-03	1.0E-04	1.0E-04
Ecotoxicity (fresh water) (CTUe)		9.1E-03	2.3E-02	9.1E-03	2.3E-02	9.1E-03	9.1E-03	4.5E-02	4.5E-02	2.3E-02	1.3E-01	1.5E-02	2.9E-02	8.9E-02	1.1E-01	2.5E-02	4.1E-02	1.1E-01	1.4E-01	1.6E-01	5.3E-02	1.8E-01	2.0E-01	1.4E-02	1.8E-02	8.3E-02	1.0E-01	2.4E-02	3.8E-02	1.0E-01	1.3E-01	1.5E-01	3.0E-02	1.7E-01	1.9E-01	1.1E-02	1.1E-02
Human toxicity, carcinogenic effects (CTUh)		8.2E-13	2.1E-12	8.2E-13	2.1E-12	8.2E-13	8.2E-13	4.1E-12	4.1E-12	2.1E-12	1.2E-11	1.4E-12	2.6E-12	8.1E-12	9.9E-12	2.3E-12	3.7E-12	9.7E-12	1.3E-11	1.4E-11	4.8E-12	1.6E-11	1.9E-11	1.3E-12	1.6E-12	7.5E-12	9.2E-12	2.1E-12	3.4E-12	9.1E-12	1.2E-11	1.3E-11	2.7E-12	1.5E-11	1.7E-11	1.0E-12	1.0E-12
Human toxicity, non-carcinogenic effects (CTUh)		4.3E-11	1.1E-10	4.3E-11	1.1E-10	4.3E-11	4.3E-11	2.1E-10	2.1E-10	1.1E-10	6.1E-10	7.1E-11	1.4E-10	4.2E-10	5.1E-10	1.2E-10	1.9E-10	5.1E-10	6.6E-10	7.5E-10	2.5E-10	8.5E-10	9.6E-10	6.7E-11	8.2E-11	3.9E-10	4.8E-10	1.1E-10	1.8E-10	4.7E-10	6.2E-10	7.0E-10	1.4E-10	8.0E-10	9.0E-10	5.2E-11	5.2E-11
Impacts related to land use/soil quality (-)		4.1E-02	1.0E-01	4.1E-02	1.0E-01	4.1E-02	4.1E-02	2.0E-01	2.0E-01	1.0E-01	5.8E-01	6.7E-02	1.3E-01	4.0E-01	4.9E-01	1.1E-01	1.8E-01	4.8E-01	6.3E-01	7.1E-01	2.4E-01	8.1E-01	9.1E-01	6.3E-02	7.8E-02	3.7E-01	4.6E-01	1.0E-01	1.7E-01	4.5E-01	5.9E-01	6.7E-01	1.3E-01	7.5E-01	8.5E-01	4.9E-02	4.9E-02
PERE (MJ)		1.1E-03	2.8E-03	1.1E-03	2.8E-03	1.1E-03	1.1E-03	5.4E-03	5.4E-03	2.8E-03	1.6E-02	1.8E-03	3.5E-03	1.1E-02	1.3E-02	3.0E-03	4.8E-03	1.3E-02	1.7E-02	1.9E-02	6.3E-03	2.2E-02	2.4E-02	1.7E-03	2.1E-03	9.9E-03	1.2E-02	2.8E-03	4.5E-03	1.2E-02	1.6E-02	1.8E-02	3.5E-03	2.0E-02	2.3E-02	1.3E-03	1.3E-03
PERM (MJ)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT (MJ)		1.1E-03	2.8E-03	1.1E-03	2.8E-03	1.1E-03	1.1E-03	5.4E-03	5.4E-03	2.8E-03	1.6E-02	1.8E-03	3.5E-03	1.1E-02	1.3E-02	3.0E-03	4.8E-03	1.3E-02	1.7E-02	1.9E-02	6.3E-03	2.2E-02	2.4E-02	1.7E-03	2.1E-03	9.9E-03	1.2E-02	2.8E-03	4.5E-03	1.2E-02	1.6E-02	1.8E-02	3.5E-03	2.0E-02	2.3E-02	1.3E-03	1.3E-03
PENRE (MJ)		6.9E-02	1.8E-01	6.9E-02	1.8E-01	6.9E-02	6.9E-02	3.4E-01	3.4E-01	1.8E-01	9.8E-01	1.1E-01	2.2E-01	6.7E-01	8.2E-01	1.9E-01	3.1E-01	8.1E-01	1.1E+00	1.2E+00	4.0E-01	1.4E+00	1.5E+00	1.1E-01	1.3E-01	6.3E-01	7.7E-01	1.8E-01	2.9E-01	7.6E-01	1.0E+00	1.1E+00	2.2E-01	1.3E+00	1.4E+00	8.4E-02	8.4E-02
PENRM (MJ)		0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT (MJ)		6.9E-02	1.8E-01	6.9E-02	1.8E-01	6.9E-02	6.9E-02	3.4E-01	3.4E-01	1.8E-01	9.8E-01	1.1E-01	2.2E-01	6.7E-01	8.2E-01	1.9E-01	3.1E-01	8.1E-01	1.1E+00	1.2E+00	4.0E-01	1.4E+00	1.5E+00	1.1E-01	1.3E-01	6.3E-01	7.7E-01	1.8E-01	2.9E-01	7.6E-01	1.0E+00	1.1E+00	2.2E-01	1.3E+00	1.4E+00	8.4E-02	8.4E-02
Use of secondary materials (kg)		0.0E+00	0.0E+00	0.0E+00	0																																

Environmental Impact of Distribution stage

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APPENDIX A		Environmental Impact of Installation stage																																			
Impact Category \ Product	ID	2CSL01012R1012	2CSL010123R1012	2CSL010011R1012	2CSL010013R1012	2CSL010001R1012	2CSL010101R1012	2CSL010001R1056	2CSL010101R1056	2CSL010003R1012	2CSL010003R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL801145R1013	2CDL801141R1013
Climatic change - Total (kg CO2 eq.)		2,3E-03	6,2E-03	2,3E-03	6,2E-03	2,3E-03	2,3E-03	1,1E-02	1,1E-02	6,2E-03	3,3E-02	3,6E-03	6,8E-03	1,9E-02	2,4E-02	6,1E-03	9,6E-03	2,5E-02	3,2E-02	3,5E-02	1,3E-02	4,1E-02	4,5E-02	3,5E-03	4,2E-03	1,8E-02	2,3E-02	5,9E-03	9,3E-03	2,4E-02	3,1E-02	3,4E-02	7,6E-03	4,0E-02	4,3E-02	3,0E-03	3,0E-03
Climatic change - Fossil (kg CO2 eq.)		1,3E-03	3,5E-03	1,3E-03	3,5E-03	1,3E-03	1,3E-03	6,0E-03	6,0E-03	3,5E-03	1,8E-02	1,9E-03	3,7E-03	1,0E-02	1,3E-02	3,4E-03	5,2E-03	1,3E-02	1,8E-02	1,9E-02	6,9E-03	2,2E-02	2,4E-02	1,9E-03	2,3E-03	1,0E-02	1,2E-02	3,3E-03	5,1E-03	1,3E-02	1,7E-02	1,8E-02	4,2E-03	2,1E-02	2,3E-02	1,7E-03	1,7E-03
Climatic change - Biogenic (kg CO2 eq.)		1,0E-03	2,8E-03	1,0E-03	2,8E-03	1,0E-03	1,0E-03	4,9E-03	4,9E-03	2,8E-03	1,5E-02	1,6E-03	3,1E-03	8,9E-03	1,1E-02	2,8E-03	4,3E-03	1,1E-02	1,5E-02	1,6E-02	5,7E-03	1,9E-02	2,0E-02	1,6E-03	1,9E-03	8,4E-03	1,0E-02	2,6E-03	4,2E-03	1,1E-02	1,4E-02	1,5E-02	3,4E-03	1,8E-02	1,9E-02	1,3E-03	1,3E-03
Climatic change - luluc (kg CO2 eq.)		9,5E-06	2,7E-05	9,5E-06	2,7E-05	9,5E-06	9,5E-06	4,5E-05	4,5E-05	2,7E-05	1,4E-04	1,5E-05	2,7E-05	7,5E-05	9,2E-05	2,5E-05	3,9E-05	1,0E-04	1,3E-04	1,4E-04	5,2E-05	1,6E-04	1,8E-04	1,4E-05	1,7E-05	7,3E-05	8,9E-05	2,5E-05	3,8E-05	9,7E-05	1,3E-04	1,3E-04	3,2E-05	1,6E-04	1,7E-04	1,3E-05	1,3E-05
Ozone depletion (kg CFC-11 eq.)		2,9E-11	8,3E-11	2,9E-11	8,3E-11	2,9E-11	2,9E-11	1,4E-10	1,4E-10	8,3E-11	4,2E-10	4,5E-11	8,4E-11	2,4E-10	2,9E-10	7,9E-11	1,2E-10	3,1E-10	4,0E-10	4,3E-10	1,6E-10	5,1E-10	5,5E-10	4,4E-11	5,4E-11	2,3E-10	2,8E-10	7,7E-11	1,2E-10	3,0E-10	3,9E-10	4,1E-10	1,0E-10	5,0E-10	5,3E-10	4,0E-11	4,0E-11
Acidification potential (AP) (mol H+ eq)		4,4E-06	1,2E-05	4,4E-06	1,2E-05	4,4E-06	4,4E-06	2,1E-05	2,1E-05	1,2E-05	6,2E-05	6,7E-06	1,3E-05	3,5E-05	4,3E-05	1,2E-05	1,8E-05	4,6E-05	6,0E-05	6,4E-05	2,4E-05	7,6E-05	8,1E-05	6,6E-06	8,0E-06	3,4E-05	4,1E-05	1,1E-05	1,8E-05	4,5E-05	5,8E-05	6,2E-05	1,5E-05	7,4E-05	7,9E-05	6,0E-06	6,0E-06
Freshwater eutrophication (kg P eq.)		6,6E-07	1,8E-06	6,6E-07	1,8E-06	6,6E-07	6,6E-07	3,1E-06	3,1E-06	1,8E-06	9,4E-06	1,0E-06	1,9E-06	5,2E-06	6,4E-06	1,8E-06	2,7E-06	6,9E-06	9,0E-06	9,6E-06	3,6E-06	1,1E-05	1,2E-05	9,8E-07	1,2E-06	5,1E-06	6,2E-06	1,7E-06	2,6E-06	6,7E-06	8,7E-06	9,3E-06	2,2E-06	1,1E-05	1,2E-05	9,0E-07	9,0E-07
Marine aquatic eutrophication (kg N eq.)		2,6E-06	7,2E-06	2,6E-06	7,2E-06	2,6E-06	2,6E-06	1,2E-05	1,2E-05	7,2E-06	3,7E-05	4,0E-06	7,5E-06	2,1E-05	2,6E-05	7,0E-06	1,1E-05	2,8E-05	3,6E-05	3,8E-05	1,4E-05	4,6E-05	4,9E-05	3,9E-06	4,8E-06	2,0E-05	2,5E-05	6,8E-06	1,1E-05	2,7E-05	3,5E-05	3,7E-05	8,8E-06	4,4E-05	4,7E-05	3,5E-06	3,5E-06
Terrestrial eutrophication (mol N eq.)		1,6E-05	4,4E-05	1,6E-05	4,4E-05	1,6E-05	1,6E-05	7,4E-05	7,4E-05	4,4E-05	2,2E-04	2,4E-05	4,5E-05	1,2E-04	1,5E-04	4,2E-05	6,5E-05	1,6E-04	2,1E-04	2,3E-04	8,5E-05	2,7E-04	2,9E-04	2,3E-05	2,8E-05	1,2E-04	1,5E-04	4,0E-05	6,3E-05	1,6E-04	2,1E-04	2,2E-04	5,3E-05	2,6E-04	2,8E-04	2,1E-05	2,1E-05
Photochemical ozone creation (POCP) (kg NMVOC eq.)		3,8E-06	1,1E-05	3,8E-06	1,1E-05	3,8E-06	3,8E-06	1,8E-05	1,8E-05	1,1E-05	5,4E-05	5,9E-06	1,1E-05	3,1E-05	3,8E-05	1,0E-05	1,6E-05	4,0E-05	5,3E-05	5,6E-05	2,1E-05	6,7E-05	7,1E-05	5,7E-06	6,9E-06	3,0E-05	3,6E-05	9,9E-06	1,5E-05	3,9E-05	5,1E-05	5,4E-05	1,3E-05	6,5E-05	6,9E-05	5,2E-06	5,2E-06
ADP-minerals & metals (kg Sb eq.)		3,9E-09	1,1E-08	3,9E-09	1,1E-08	3,9E-09	3,9E-09	1,9E-08	1,9E-08	1,1E-08	5,6E-08	6,0E-09	1,1E-08	3,1E-08	3,8E-08	1,0E-08	1,6E-08	4,1E-08	5,4E-08	5,7E-08	2,1E-08	6,8E-08	7,3E-08	5,8E-09	7,1E-09	3,0E-08	3,7E-08	1,0E-08	1,6E-08	4,0E-08	5,2E-08	5,5E-08	1,3E-08	6,6E-08	7,0E-08	5,3E-09	5,3E-09
ADP-fossil (MJ)		1,5E-02	4,1E-02	1,5E-02	4,1E-02	1,5E-02	1,5E-02	6,9E-02	6,9E-02	4,1E-02	2,1E-01	2,2E-02	4,2E-02	1,2E-01	1,4E-01	3,9E-02	6,0E-02	1,5E-01	2,0E-01	2,1E-01	7,9E-02	2,5E-01	2,7E-01	2,2E-02	2,6E-02	1,1E-01	1,4E-01	3,8E-02	5,9E-02	1,5E-01	1,9E-01	2,1E-01	4,9E-02	2,5E-01	2,6E-01	2,0E-02	2,0E-02
Water Deprivation potential (WDP) (m3 e depr.)		4,8E-04	1,4E-03	4,8E-04	1,4E-03	4,8E-04	4,8E-04	2,3E-03	2,3E-03	1,4E-03	6,8E-03	7,2E-04	1,3E-03	3,6E-03	4,4E-03	1,3E-03	1,9E-03	4,9E-03	6,4E-03	6,7E-03	2,6E-03	8,1E-03	8,5E-03	7,1E-04	8,6E-04	3,5E-03	4,3E-03	1,2E-03	1,9E-03	4,8E-03	6,2E-03	6,5E-03	1,6E-03	7,9E-03	8,2E-03	6,7E-04	6,7E-04
Emission of fine particles (incidence of diseases)		3,9E-11	1,1E-10	3,9E-11	1,1E-10	3,9E-11	3,9E-11	1,9E-10	1,9E-10	1,1E-10	5,5E-10	6,0E-11	1,1E-10	3,1E-10	3,8E-10	1,0E-10	1,6E-10	4,1E-10	5,4E-10	5,7E-10	2,1E-10	6,8E-10	7,3E-10	5,8E-11	7,1E-11	3,0E-10	3,7E-10	1,0E-10	1,6E-10	4,0E-10	5,2E-10	5,5E-10	1,3E-10	6,6E-10	7,0E-10	5,3E-11	5,3E-11
Ionizing radiation, human health (kBq of U235 equiv.)		8,8E-05	2,5E-04	8,8E-05	2,5E-04	8,8E-05	8,8E-05	4,2E-04	4,2E-04	2,5E-04	1,3E-03	1,4E-04	2,5E-04	7,1E-04	8,6E-04	2,4E-04	3,7E-04	9,3E-04	1,2E-03	1,3E-03	4,8E-04	1,5E-03	1,6E-03	1,3E-04	1,6E-04	6,8E-04	8,3E-04	2,3E-04	3,6E-04	9,0E-04	1,2E-03	1,2E-03	3,0E-04	1,5E-03	1,6E-03	1,2E-04	1,2E-04
Ecotoxicity (fresh water) (CTUe)		1,8E-02	5,1E-02	1,8E-02	5,1E-02	1,8E-02	1,8E-02	8,7E-02	8,7E-02	5,1E-02	2,6E-01	2,8E-02	5,2E-02	1,5E-01	1,8E-01	4,9E-02	7,6E-02	1,9E-01	2,5E-01	2,7E-01	1,0E-01	3,2E-01	3,4E-01	2,7E-02	3,3E-02	1,4E-01	1,7E-01	4,8E-02	7,4E-02	1,9E-01	2,4E-01	2,6E-01	6,2E-02	3,1E-01	3,3E-01	2,5E-02	2,5E-02
Human toxicity, carcinogenic effects (CTUh)		3,3E-13	9,1E-13	3,3E-13	9,1E-13	3,3E-13	3,3E-13	1,6E-12	1,6E-12	9,1E-13	4,6E-12	5,0E-13	9,4E-13	2,6E-12	3,2E-12	8,7E-13	1,4E-12	3,4E-12	4,5E-12	4,8E-12	1,8E-12	5,7E-12	6,1E-12	4,9E-13	5,9E-13	2,5E-12	3,1E-12	8,5E-13	1,3E-12	3,3E-12	4,4E-12	4,6E-12	1,1E-12	5,5E-12	5,9E-12	4,4E-13	4,4E-13
Human toxicity, non-carcinogenic effects (CTUh)		2,0E-11	5,6E-11	2,0E-11	5,6E-11	2,0E-11	2,0E-11	9,6E-11	9,6E-11	5,6E-11	2,9E-10	3,1E-11	5,8E-11	1,6E-10	2,0E-10	5,4E-11	8,3E-11	2,1E-10	2,8E-10	2,9E-10	1,1E-10	3,5E-10	3,8E-10	3,0E-11	3,7E-11	1,6E-10	1,9E-10	5,2E-11	8,1E-11	2,1E-10	2,7E-10	2,8E-10	6,8E-11	3,4E-10	3,6E-10	2,7E-11	2,7E-11
Impacts related to land use/soil quality (-)		1,1E-02	3,1E-02	1,1E-02	3,1E-02	1,1E-02	1,1E-02	5,3E-02	5,3E-02	3,1E-02	1,6E-01	1,7E-02	3,2E-02	8,8E-02	1,1E-01	2,9E-02	4,6E-02	1,2E-01	1,5E-01	1,6E-01	6,0E-02	1,9E-01	2,1E-01	1,6E-02	2,0E-02	8,5E-02	1,0E-01	2,9E-02	4,4E-02	1,1E-01	1,5E-01	1,6E-01	3,7E-02	1,9E-01	2,0E-01	1,5E-02	1,5E-02
PERE (MJ)		2,5E-03	7,0E-03	2,5E-03	7,0E-03	2,5E-03	2,5E-03	1,2E-02	1,2E-02	7,0E-03	3,5E-02	3,8E-03	7,1E-03	2,0E-02	2,4E-02	6,6E-03	1,0E-02	2,6E-02	3,4E-02	3,6E-02	1,4E-02	4,3E-02	4,6E-02	3,7E-03	4,5E-03	1,9E-02	2,3E-02	6,5E-03	1,0E-02	2,5E-02	3,3E-02	3,5E-02	8,4E-03	4,2E-02	4,4E-02	3,4E-03	3,4E-03
PERM (MJ)		0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PERT (MJ)		2,5E-03	7,0E-03	2,5E-03	7,0E-03	2,5E-03	2,5E-03	1,2E-02	1,2E-02	7,0E-03	3,5E-02	3,8E-03	7,1E-03	2,0E-02	2,4E-02	6,6E-03	1,0E-02	2,6E-02	3,4E-02	3,6E-02	1,4E-02	4,3E-02	4,6E-02	3,7E-03	4,5E-03	1,9E-02	2,3E-02	6,5E-03	1,0E-02	2,5E-02	3,3E-02	3,5E-02	8,4E-03	4,2E-02	4,4E-02	3,4E-03	3,4E-03
PENRE (MJ)		1,5E-02	4,1E-02	1,5E-02	4,1E-02	1,5E-02	1,5E-02	6,9E-02	6,9E-02	4,1E-02	2,1E-01	2,2E-02	4,2E-02	1,2E-01	1,4E-01	3,9E-02	6,0E-02	1,5E-01	2,0E-01	2,1E-01	7,9E-02	2,5E-01	2,7E-01	2,2E-02	2,6E-02	1,1E-01	1,4E-01	3,8E-02	5,9E-02	1,5E-01	1,9E-01	2,1E-01	4,9E-02	2,5E-01	2,6E-01	2,0E-02	2,0E-02
PENRM (MJ)		0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PENRT (MJ)		1,5E-02	4,1E-02	1,5E-02	4,1E-02	1,5E-02	1,5E-02	6,9E-02	6,9E-02	4,1E-02	2,1E-01	2,2E-02	4,2E-02	1,2E-01	1,4E-01	3,9E-02	6,0E-02	1,5E-01	2,0E-01	2,1E-01	7,9E-02	2,5E-01	2,7E-01	2,2E-02	2,6E-02	1,1E-01	1,4E-01	3,8E-02	5,9E-02	1,5E-01	1,9E-01	2,1E-01	4,9E-02	2,5E-01	2,6E-01	2,0E-02	2,0E-02
Use of secondary materials (kg)		0,0E+00	0,0E+00	0,0E+0																																	

Environmental Impact of Installation stage

APPENDIX A

Environmental Impact of Installation stage

Impact Category \ Product ID	Product ID																							
	2CDB936001R1018	2CDB936001R1157	2CDB936001R1057	2CDB936001R1657	2CDB946001R1118	2CDB946001R1018	2CDB946001R1154	2CDB946001R1054	2CDB946001R1654	2CDB946001R1056	2CDB946001R1656	2CDB946011R1656	2CSL010000R0003	2CDL800001R0021	2CDL8000001R0030	2CDL8000001R0040	2CDB806001R0011	2CDB806001R0021	2CDB806001R0031	2CDB806001R0032	2CDB806001R0041	2CDL800001R2514	2CDL800001R0051	2CDB806001R0051
Climatic change - Total (kg CO2 eq.)	9.1E-03	3.1E-02	3.1E-02	3.3E-02	1.2E-02	1.2E-02	3.8E-02	3.8E-02	4.1E-02	3.9E-02	4.2E-02	4.2E-02	9.1E-05	7.9E-05	9.1E-05	1.0E-04	7.6E-05	7.9E-05	9.1E-05	9.1E-05	1.0E-04	1.0E-03	1.8E-03	1.8E-03
Climatic change - Fossil (kg CO2 eq.)	5.0E-03	1.7E-02	1.7E-02	1.8E-02	6.4E-03	6.4E-03	2.1E-02	2.1E-02	2.2E-02	2.1E-02	2.3E-02	2.3E-02	7.6E-05	7.1E-05	7.6E-05	8.2E-05	6.9E-05	7.1E-05	7.6E-05	7.6E-05	8.2E-05	5.8E-04	1.1E-03	1.1E-03
Climatic change - Biogenic (kg CO2 eq.)	4.1E-03	1.4E-02	1.4E-02	1.5E-02	5.2E-03	5.2E-03	1.7E-02	1.7E-02	1.8E-02	1.8E-02	1.9E-02	1.9E-02	1.4E-05	8.3E-06	1.4E-05	2.0E-05	6.9E-06	8.3E-06	1.4E-05	1.4E-05	2.0E-05	4.4E-04	6.8E-04	6.8E-04
Climatic change - luluc (kg CO2 eq.)	3.8E-05	1.2E-04	1.2E-04	1.3E-04	4.9E-05	4.9E-05	1.5E-04	1.5E-04	1.6E-04	1.6E-04	1.7E-04	1.7E-04	8.0E-08	4.5E-08	8.0E-08	1.2E-07	3.6E-08	4.5E-08	8.0E-08	8.0E-08	1.2E-07	4.7E-06	1.0E-05	1.0E-05
Ozone depletion (kg CFC-11 eq.)	1.2E-10	3.9E-10	3.9E-10	4.1E-10	1.5E-10	1.5E-10	4.8E-10	4.8E-10	5.1E-10	5.0E-10	5.3E-10	5.3E-10	3.1E-13	2.0E-13	3.1E-13	4.3E-13	1.8E-13	2.0E-13	3.1E-13	3.1E-13	4.3E-13	1.4E-11	3.1E-11	3.1E-11
Acidification potential (AP) (mol H+ eq)	1.7E-05	5.8E-05	5.8E-05	6.1E-05	2.3E-05	2.3E-05	7.1E-05	7.1E-05	7.6E-05	7.4E-05	7.8E-05	7.8E-05	5.9E-08	4.2E-08	5.9E-08	7.6E-08	3.8E-08	4.2E-08	5.9E-08	5.9E-08	7.6E-08	2.1E-06	4.6E-06	4.6E-06
Freshwater eutrophication (kg P eq.)	2.6E-06	8.6E-06	8.6E-06	9.1E-06	3.4E-06	3.4E-06	1.1E-05	1.1E-05	1.1E-05	1.1E-05	1.2E-05	1.2E-05	6.4E-09	3.9E-09	6.4E-09	8.9E-09	3.4E-09	3.9E-09	6.4E-09	6.4E-09	8.9E-09	3.2E-07	7.0E-07	7.0E-07
Marine aquatic eutrophication (kg N eq.)	1.0E-05	3.4E-05	3.4E-05	3.7E-05	1.3E-05	1.3E-05	4.3E-05	4.3E-05	4.5E-05	4.4E-05	4.7E-05	4.7E-05	3.4E-08	2.4E-08	3.4E-08	4.5E-08	2.1E-08	2.4E-08	3.4E-08	3.4E-08	4.5E-08	1.2E-06	2.6E-06	2.6E-06
Terrestrial eutrophication (mol N eq.)	6.2E-05	2.0E-04	2.0E-04	2.2E-04	8.0E-05	8.0E-05	2.5E-04	2.5E-04	2.7E-04	2.6E-04	2.8E-04	2.8E-04	2.2E-07	1.5E-07	2.2E-07	2.8E-07	1.4E-07	1.5E-07	2.2E-07	2.2E-07	2.8E-07	7.5E-06	1.6E-05	1.6E-05
Photochemical ozone creation (POCP) (kg NMVOC eq.)	1.5E-05	5.0E-05	5.0E-05	5.3E-05	2.0E-05	2.0E-05	6.2E-05	6.2E-05	6.6E-05	6.5E-05	6.9E-05	6.9E-05	6.1E-08	4.6E-08	6.1E-08	7.7E-08	4.2E-08	4.6E-08	6.1E-08	6.1E-08	7.7E-08	1.8E-06	3.9E-06	3.9E-06
ADP-minerals & metals (kg Sb eq.)	1.6E-08	5.1E-08	5.1E-08	5.4E-08	2.0E-08	2.0E-08	6.4E-08	6.4E-08	6.7E-08	6.6E-08	7.0E-08	7.0E-08	6.1E-11	4.6E-11	6.1E-11	7.7E-11	4.3E-11	4.6E-11	6.1E-11	6.1E-11	7.7E-11	1.9E-09	4.1E-09	4.1E-09
ADP-fossil (MJ)	5.8E-02	1.9E-01	1.9E-01	2.0E-01	7.5E-02	7.5E-02	2.4E-01	2.4E-01	2.5E-01	2.5E-01	2.6E-01	2.6E-01	1.9E-04	1.3E-04	1.9E-04	2.4E-04	1.2E-04	1.3E-04	1.9E-04	1.9E-04	2.4E-04	7.1E-03	1.5E-02	1.5E-02
Water Deprivation potential (WDP) (m3 e depr.)	1.9E-03	6.2E-03	6.2E-03	6.4E-03	2.5E-03	2.5E-03	7.7E-03	7.7E-03	8.0E-03	8.0E-03	8.3E-03	8.3E-03	2.4E-06	1.1E-06	2.4E-06	3.8E-06	8.0E-07	1.1E-06	2.4E-06	2.4E-06	3.8E-06	2.5E-04	6.0E-04	6.0E-04
Emission of fine particles (incidence of diseases)	1.5E-10	5.1E-10	5.1E-10	5.4E-10	2.0E-10	2.0E-10	6.4E-10	6.4E-10	6.7E-10	6.6E-10	7.0E-10	7.0E-10	6.4E-13	4.7E-13	6.4E-13	8.0E-13	4.4E-13	4.7E-13	6.4E-13	6.4E-13	8.0E-13	1.9E-11	3.9E-11	3.9E-11
Ionizing radiation, human health (kBq of U235 equiv.)	3.5E-04	1.2E-03	1.2E-03	1.2E-03	4.6E-04	4.6E-04	1.4E-03	1.4E-03	1.5E-03	1.5E-03	1.6E-03	1.6E-03	1.1E-06	7.8E-07	1.1E-06	1.5E-06	7.0E-07	7.8E-07	1.1E-06	1.1E-06	1.5E-06	4.3E-05	9.4E-05	9.4E-05
Ecotoxicity (fresh water) (CTUe)	7.3E-02	2.4E-01	2.4E-01	2.5E-01	9.4E-02	9.4E-02	3.0E-01	3.0E-01	3.1E-01	3.1E-01	3.3E-01	3.3E-01	1.8E-04	1.1E-04	1.8E-04	2.5E-04	9.7E-05	1.1E-04	1.8E-04	1.8E-04	2.5E-04	9.0E-03	2.0E-02	2.0E-02
Human toxicity, carcinogenic effects (CTUh)	1.3E-12	4.3E-12	4.3E-12	4.6E-12	1.7E-12	1.7E-12	5.3E-12	5.3E-12	5.6E-12	5.5E-12	5.9E-12	5.9E-12	6.0E-15	4.7E-15	6.0E-15	7.3E-15	4.4E-15	4.7E-15	6.0E-15	6.0E-15	7.3E-15	1.6E-13	3.3E-13	3.3E-13
Human toxicity, non-carcinogenic effects (CTUh)	8.0E-11	2.6E-10	2.6E-10	2.8E-10	1.0E-10	1.0E-10	3.3E-10	3.3E-10	3.5E-10	3.4E-10	3.6E-10	3.6E-10	3.0E-13	2.2E-13	3.0E-13	3.8E-13	2.0E-13	2.2E-13	3.0E-13	3.0E-13	3.8E-13	9.7E-12	2.1E-11	2.1E-11
Impacts related to land use/soil quality (-)	4.4E-02	1.4E-01	1.4E-01	1.5E-01	5.7E-02	5.7E-02	1.8E-01	1.8E-01	1.9E-01	1.9E-01	2.0E-01	2.0E-01	1.4E-04	9.5E-05	1.4E-04	1.8E-04	8.5E-05	9.5E-05	1.4E-04	1.4E-04	1.8E-04	5.3E-03	1.1E-02	1.1E-02
PERE (MJ)	9.9E-03	3.3E-02	3.3E-02	3.4E-02	1.3E-02	1.3E-02	4.0E-02	4.0E-02	4.3E-02	4.2E-02	4.4E-02	4.4E-02	2.7E-05	1.8E-05	2.7E-05	3.6E-05	1.5E-05	1.8E-05	2.7E-05	2.7E-05	3.6E-05	1.2E-03	2.7E-03	2.7E-03
PERM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT (MJ)	9.9E-03	3.3E-02	3.3E-02	3.4E-02	1.3E-02	1.3E-02	4.0E-02	4.0E-02	4.3E-02	4.2E-02	4.4E-02	4.4E-02	2.7E-05	1.8E-05	2.7E-05	3.6E-05	1.5E-05	1.8E-05	2.7E-05	2.7E-05	3.6E-05	1.2E-03	2.7E-03	2.7E-03
PENRE (MJ)	5.8E-02	1.9E-01	1.9E-01	2.0E-01	7.5E-02	7.5E-02	2.4E-01	2.4E-01	2.5E-01	2.5E-01	2.6E-01	2.6E-01	1.9E-04	1.3E-04	1.9E-04	2.4E-04	1.2E-04	1.3E-04	1.9E-04	1.9E-04	2.4E-04	7.1E-03	1.5E-02	1.5E-02
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT (MJ)	5.8E-02	1.9E-01	1.9E-01	2.0E-01	7.5E-02	7.5E-02	2.4E-01	2.4E-01	2.5E-01	2.5E-01	2.6E-01	2.6E-01	1.9E-04	1.3E-04	1.9E-04	2.4E-04	1.2E-04	1.3E-04	1.9E-04	1.9E-04	2.4E-04	7.1E-03	1.5E-02	1.5E-02
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Use of renewables secondary fuels (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Use of non-renewables secondary fuels (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Net freshwater use (m3)	6.6E-05	2.2E-04	2.2E-04	2.3E-04	8.6E-05	8.6E-05	2.7E-04	2.7E-04	2.8E-04	2.8E-04	2.9E-04	2.9E-04	1.2E-07	6.6E-08	1.2E-07	1.7E-07	5.4E-08	6.6E-08	1.2E-07	1.2E-07	1.7E-07	8.4E-06	2.0E-05	2.0E-05
Total use of primary energy (MJ)	6.8E-02	2.2E-01	2.2E-01	2.4E-01	8.8E-02	8.8E-02	2.8E-01	2.8E-01	2.9E-01	2.9E-01	3.0E-01	3.0E-01	2.1E-04	1.5E-04	2.1E-04	2.8E-04	1.3E-04	1.5E-04	2.1E-04	2.1E-04	2.8E-04	8.3E-03	1.8E-02	1.8E-02
Hazardous waste disposed (kg)	9.3E-05	3.1E-04	3.1E-04	3.3E-04	1.2E-04	1.2E-04	3.8E-04	3.8E-04	4.1E-04	4.0E-04	4.3E-04	4.3E-04	1.2E-06	1.1E-06	1.2E-06	1.3E-06	1.1E-06	1.2E-06	1.2E-06	1.3E-06	1.1E-05	2.0E-05	2.0E-05	
Non-hazardous waste disposed (kg)	3.4E-03	1.2E-02	1.2E-02	1.3E-02	4.2E-03	4.2E-03	1.4E-02	1.4E-02	1.6E-02	1.5E-02	1.6E-02	1.6E-02	2.6E-05	2.0E-05	2.6E-05	3.2E-05	1.9E-05	2.0E-05	2.6E-05	2.6E-05	3.2E-05	3.2E-04	3.2E-04	3.2E-04
Radioactive waste disposed (kg)	8.9E-08	3.0E-07	3.0E-07	3.1E-07	1.2E-07	1.2E-07	3.7E-07	3.7E-07	3.9E-07	3.8E-07	4.0E-07	4.0E-07	2.8E-10	1.9E-10	2.8E-10	3.6E-10	1.7E-10	1.9E-10	2.8E-10	2.8E-10	3.6E-10	1.1E-08	2.4E-08	2.4E-08
Components for re-use (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Material for recycling (kg)	5.8E-03	1.9E-02	1.9E-02	2.0E-02	7.5E-03	7.5E-03	2.4E-02	2.4E-02	2.5E-02	2.5E-02	2.6E-02	2.6E-02	3.4E-05	2.8E-05	3.4E-05	4.0E-05	2.6E-05	2.8E-05	3.4E-05	3.4E-05	4.0E-05	7.0E-04	1.5E-03	1.5E-03
Materials for energy recovery (kg)	1.9E-03	6.4E-03	6.4E-03	7.0E-03	2.3E-03	2.3E-03	7.8E-03	7.8E-03	8.6E-03	8.1E-03	9.0E-03	9.0E-03	2.6E-05	2.2E-05	2.6E-05	2.9E-05	2.2E-05	2.2E-05	2.6E-05	2.6E-05	2.9E-05	1.8E-04	1.8E-04	1.8E-04
Exported energy (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Biogenic carbon content - product (kg of C.)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Biogenic carbon content - packaging (kg of C.)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0	

APPENDIX A

Environmental Impact of Use stag

Impact Category \ Product ID	2CSL01012R1012	2CSL01012R1012	2CSL01001R1012	2CSL010013R1012	2CSL010001R1012	2CSL010101R1012	2CSL010001R1056	2CSL010101R1056	2CSL010003R1012	2CSL010003R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL801145R1013	2CDL801141R1013
Climatic change - Total (kg CO2 eq.)	3.1E+00	7.7E+00	3.1E+00	7.7E+00	3.1E+00	3.1E+00	1.6E+01	1.6E+01	7.7E+00	4.6E+01	4.6E+00	9.1E+00	1.5E+01	1.9E+01	7.7E+00	1.3E+01	3.5E+01	4.6E+01	2.8E+01	1.6E+01	5.7E+01	3.5E+01	5.0E+00	6.2E+00	1.4E+01	1.7E+01	8.4E+00	1.4E+01	3.8E+01	5.1E+01	2.5E+01	1.0E+01	6.2E+01	3.1E+01	3.4E+00	3.4E+00
Climatic change - Fossil (kg CO2 eq.)	3.0E+00	7.3E+00	3.0E+00	7.3E+00	3.0E+00	3.0E+00	1.5E+01	1.5E+01	7.3E+00	4.4E+01	4.4E+00	8.7E+00	1.5E+01	1.8E+01	7.4E+00	1.2E+01	3.3E+01	4.4E+01	2.7E+01	1.5E+01	5.4E+01	3.3E+01	4.8E+00	6.0E+00	1.3E+01	1.6E+01	8.0E+00	1.3E+01	3.7E+01	4.8E+01	2.4E+01	9.5E+00	6.0E+01	2.9E+01	3.3E+00	3.3E+00
Climatic change - Biogenic (kg CO2 eq.)	1.3E-01	3.3E-01	1.3E-01	3.3E-01	1.3E-01	1.3E-01	6.7E-01	6.7E-01	3.3E-01	2.0E+00	2.0E-01	3.9E-01	6.6E-01	8.1E-01	3.3E-01	5.5E-01	1.5E+00	2.0E+00	1.2E+00	6.9E-01	2.5E+00	1.5E+00	2.1E-01	2.7E-01	5.8E-01	7.2E-01	3.6E-01	6.0E-01	1.6E+00	2.2E+00	1.1E+00	4.3E-01	2.7E+00	1.3E+00	1.5E-01	1.5E-01
Climatic change - luluc (kg CO2 eq.)	6.1E-03	1.5E-02	6.1E-03	1.5E-02	6.1E-03	6.1E-03	3.1E-02	3.1E-02	1.5E-02	9.0E-02	8.9E-03	1.8E-02	3.0E-02	3.7E-02	1.5E-02	2.5E-02	6.9E-02	9.0E-02	5.5E-02	3.1E-02	1.1E-01	6.8E-02	9.8E-03	1.2E-02	2.7E-02	3.3E-02	1.6E-02	2.7E-02	7.5E-02	9.9E-02	4.9E-02	2.0E-02	1.2E-01	6.0E-02	6.7E-03	6.7E-03
Ozone depletion (kg CFC-11 eq.)	7.0E-08	1.7E-07	7.0E-08	1.7E-07	7.0E-08	7.0E-08	3.5E-07	3.5E-07	1.7E-07	1.0E-06	1.0E-07	2.0E-07	3.4E-07	4.2E-07	1.7E-07	2.9E-07	7.8E-07	1.0E-06	6.3E-07	3.6E-07	1.3E-06	7.7E-07	1.1E-07	1.4E-07	3.0E-07	3.7E-07	1.9E-07	3.1E-07	8.6E-07	1.1E-06	5.6E-07	2.2E-07	1.4E-06	6.9E-07	7.6E-08	7.6E-08
Acidification potential (AP) (mol H+ eq)	1.2E-02	2.8E-02	1.2E-02	2.8E-02	1.2E-02	1.2E-02	5.8E-02	5.8E-02	2.8E-02	1.7E-01	1.7E-02	3.4E-02	5.6E-02	6.9E-02	2.8E-02	4.7E-02	1.3E-01	1.7E-01	1.0E-01	5.9E-02	2.1E-01	1.3E-01	1.8E-02	2.3E-02	5.0E-02	6.1E-02	3.1E-02	5.2E-02	1.4E-01	1.9E-01	9.2E-02	3.7E-02	2.3E-01	1.1E-01	1.3E-02	1.3E-02
Freshwater eutrophication (kg P eq.)	2.3E-03	5.6E-03	2.3E-03	5.6E-03	2.3E-03	2.3E-03	1.1E-02	1.1E-02	5.6E-03	3.4E-02	3.3E-03	6.7E-03	1.1E-02	1.4E-02	5.6E-03	9.4E-03	2.6E-02	3.4E-02	2.1E-02	1.2E-02	4.2E-02	2.5E-02	3.7E-03	4.6E-03	1.0E-02	1.2E-02	6.2E-03	1.0E-02	2.8E-02	3.7E-02	1.8E-02	7.3E-03	4.6E-02	2.3E-02	2.5E-03	2.5E-03
Marine aquatic eutrophication (kg N eq.)	2.4E-03	5.8E-03	2.4E-03	5.8E-03	2.4E-03	2.4E-03	1.2E-02	1.2E-02	5.8E-03	3.5E-02	3.4E-03	6.9E-03	1.2E-02	1.4E-02	5.8E-03	9.7E-03	2.6E-02	3.5E-02	2.1E-02	1.2E-02	4.3E-02	2.6E-02	3.8E-03	4.7E-03	1.0E-02	1.3E-02	6.4E-03	1.1E-02	2.9E-02	3.8E-02	1.9E-02	7.5E-03	4.7E-02	2.3E-02	2.6E-03	2.6E-03
Terrestrial eutrophication (mol N eq.)	2.1E-02	5.2E-02	2.1E-02	5.2E-02	2.1E-02	2.1E-02	1.1E-01	1.1E-01	5.2E-02	3.1E-01	3.1E-02	6.2E-02	1.0E-01	1.3E-01	5.2E-02	8.7E-02	2.4E-01	3.1E-01	1.9E-01	1.1E-01	3.9E-01	2.4E-01	3.4E-02	4.2E-02	9.2E-02	1.1E-01	5.7E-02	9.5E-02	2.6E-01	3.4E-01	1.7E-01	6.8E-02	4.2E-01	2.1E-01	2.3E-02	2.3E-02
Photochemical ozone creation (POCP) (kg NMVOC eq.)	6.8E-03	1.7E-02	6.8E-03	1.7E-02	6.8E-03	6.8E-03	3.4E-02	3.4E-02	1.7E-02	1.0E-01	1.0E-02	2.0E-02	3.3E-02	4.1E-02	1.7E-02	2.8E-02	7.6E-02	1.0E-01	6.1E-02	3.5E-02	1.2E-01	7.6E-02	1.1E-02	1.4E-02	3.0E-02	3.6E-02	1.8E-02	3.1E-02	8.4E-02	1.1E-01	5.5E-02	2.2E-02	1.4E-01	6.7E-02	7.4E-03	7.4E-03
ADP-minerals & metals (kg Sb eq.)	5.3E-05	1.3E-04	5.3E-05	1.3E-04	5.3E-05	5.3E-05	2.6E-04	2.6E-04	1.3E-04	7.7E-04	7.7E-05	1.5E-04	2.6E-04	3.1E-04	1.3E-04	2.2E-04	5.9E-04	7.8E-04	4.7E-04	2.7E-04	9.6E-04	5.8E-04	8.4E-05	1.0E-04	2.3E-04	2.8E-04	1.4E-04	2.4E-04	6.4E-04	8.5E-04	4.2E-04	1.7E-04	1.0E-03	5.2E-04	5.7E-05	5.7E-05
ADP-fossil (MJ)	8.7E+01	2.1E+02	8.7E+01	2.1E+02	8.7E+01	8.7E+01	4.4E+02	4.4E+02	2.1E+02	1.3E+03	1.3E+02	2.5E+02	4.3E+02	5.2E+02	2.2E+02	3.6E+02	9.8E+02	1.3E+03	7.9E+02	4.5E+02	1.6E+03	9.7E+02	1.4E+02	1.7E+02	3.8E+02	4.7E+02	2.4E+02	3.9E+02	1.1E+03	1.4E+03	7.0E+02	2.8E+02	1.7E+03	8.6E+02	9.5E+01	9.5E+01
Water Deprivation potential (WDP) (m3 e depr.)	9.8E-01	2.4E+00	9.8E-01	2.4E+00	9.8E-01	9.8E-01	4.9E+00	4.9E+00	2.4E+00	1.4E+01	1.4E+00	2.9E+00	4.8E+00	5.9E+00	2.4E+00	4.0E+00	1.1E+01	1.5E+01	8.8E+00	5.0E+00	1.8E+01	1.1E+01	1.6E+00	2.0E+00	4.3E+00	5.2E+00	2.6E+00	4.4E+00	1.2E+01	1.6E+01	7.9E+00	3.1E+00	2.0E+01	9.7E+00	1.1E+00	1.1E+00
Emission of fine particles (incidence of diseases)	6.3E-08	1.5E-07	6.3E-08	1.5E-07	6.3E-08	6.3E-08	3.1E-07	3.1E-07	1.5E-07	9.2E-07	9.1E-08	1.8E-07	3.1E-07	3.7E-07	1.5E-07	2.6E-07	7.0E-07	9.2E-07	5.6E-07	3.2E-07	1.1E-06	6.9E-07	1.0E-07	1.2E-07	2.7E-07	3.3E-07	1.7E-07	2.8E-07	7.7E-07	1.0E-06	5.0E-07	2.0E-07	1.2E-06	6.2E-07	6.8E-08	6.8E-08
Ionizing radiation, human health (kBq of U235 equiv.)	2.8E+00	7.0E+00	2.8E+00	7.0E+00	2.8E+00	2.8E+00	1.4E+01	1.4E+01	7.0E+00	4.2E+01	4.1E+00	8.3E+00	1.4E+01	1.7E+01	7.0E+00	1.2E+01	3.2E+01	4.2E+01	2.6E+01	1.5E+01	5.2E+01	3.2E+01	4.5E+00	5.7E+00	1.2E+01	1.5E+01	7.7E+00	1.3E+01	3.5E+01	4.6E+01	2.3E+01	9.1E+00	5.7E+01	2.8E+01	3.1E+00	3.1E+00
Ecotoxicity (fresh water) (CTUe)	9.9E+00	2.4E+01	9.9E+00	2.4E+01	9.9E+00	9.9E+00	4.9E+01	4.9E+01	2.4E+01	1.5E+02	1.4E+01	2.9E+01	4.8E+01	5.9E+01	2.4E+01	4.0E+01	1.1E+02	1.5E+02	8.9E+01	5.0E+01	1.8E+02	1.1E+02	1.6E+01	2.0E+01	4.3E+01	5.3E+01	2.7E+01	4.4E+01	1.2E+02	1.6E+02	7.9E+01	3.1E+01	2.0E+02	9.7E+01	1.1E+01	1.1E+01
Human toxicity, carcinogenic effects (CTUh)	9.2E-10	2.3E-09	9.2E-10	2.3E-09	9.2E-10	9.2E-10	4.6E-09	4.6E-09	2.3E-09	1.4E-08	1.3E-09	2.7E-09	4.5E-09	5.5E-09	2.3E-09	3.8E-09	1.0E-08	1.4E-08	8.2E-09	4.7E-09	1.7E-08	1.0E-08	1.5E-09	1.8E-09	4.0E-09	4.9E-09	2.5E-09	4.1E-09	1.1E-08	1.5E-08	7.3E-09	2.9E-09	1.8E-08	9.0E-09	1.0E-09	1.0E-09
Human toxicity, non-carcinogenic effects (CTUh)	5.0E-08	1.2E-07	5.0E-08	1.2E-07	5.0E-08	5.0E-08	2.5E-07	2.5E-07	1.2E-07	7.4E-07	7.3E-08	1.5E-07	2.5E-07	3.0E-07	1.2E-07	2.1E-07	5.6E-07	7.4E-07	4.5E-07	2.6E-07	9.2E-07	5.6E-07	8.0E-08	1.0E-07	2.2E-07	2.7E-07	1.4E-07	2.3E-07	6.2E-07	8.1E-07	4.0E-07	1.6E-07	1.0E-06	5.0E-07	5.5E-08	5.5E-08
Impacts related to land use/soil quality (-)	1.7E+01	4.2E+01	1.7E+01	4.2E+01	1.7E+01	1.7E+01	8.6E+01	8.6E+01	4.2E+01	2.5E+02	2.5E+01	5.0E+01	8.4E+01	1.0E+02	4.2E+01	7.1E+01	1.9E+02	2.5E+02	1.5E+02	8.8E+01	3.1E+02	1.9E+02	2.7E+01	3.4E+01	7.5E+01	9.2E+01	4.6E+01	7.7E+01	2.1E+02	2.8E+02	1.4E+02	5.5E+01	3.4E+02	1.7E+02	1.9E+01	1.9E+01
PERE (MJ)	1.9E+01	4.6E+01	1.9E+01	4.6E+01	1.9E+01	1.9E+01	9.4E+01	9.4E+01	4.6E+01	2.8E+02	2.7E+01	5.5E+01	9.2E+01	1.1E+02	4.6E+01	7.7E+01	2.1E+02	2.8E+02	1.7E+02	9.6E+01	3.4E+02	2.1E+02	3.0E+01	3.7E+01	8.1E+01	1.0E+02	5.1E+01	8.4E+01	2.3E+02	3.0E+02	1.5E+02	6.0E+01	3.7E+02	1.9E+02	2.0E+01	2.0E+01
PERM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT (MJ)	1.9E+01	4.6E+01	1.9E+01	4.6E+01	1.9E+01	1.9E+01	9.4E+01	9.4E+01	4.6E+01	2.8E+02	2.7E+01	5.5E+01	9.2E+01	1.1E+02	4.6E+01	7.7E+01	2.1E+02	2.8E+02	1.7E+02	9.6E+01	3.4E+02	2.1E+02	3.0E+01	3.7E+01	8.1E+01	1.0E+02	5.1E+01	8.4E+01	2.3E+02	3.0E+02	1.5E+02	6.0E+01	3.7E+02	1.9E+02	2.0E+01	2.0E+01
PENRE (MJ)	8.7E+01	2.1E+02	8.7E+01	2.1E+02	8.7E+01	8.7E+01	4.4E+02	4.4E+02	2.1E+02	1.3E+03	1.3E+02	2.5E+02	4.3E+02	5.2E+02	2.2E+02	3.6E+02	9.8E+02	1.3E+03	7.9E+02	4.5E+02	1.6E+03	9.7E+02	1.4E+02	1.7E+02	3.8E+02	4.7E+02	2.4E+02	3.9E+02	1.1E+03	1.4E+03	7.0E+02	2.8E+02	1.7E+03	8.6E+02	9.5E+01	9.5E+01
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT (MJ)	8.7E+01	2.1E+02	8.7E+01	2.1E+02	8.7E+01	8.7E+01	4.4E+02	4.4E+02	2.1E+02	1.3E+03	1.3E+02	2.5E+02	4.3E+02	5.2E+02	2.2E+02	3.6E+02	9.8E+02	1.3E+03	7.9E+02	4.5E+02	1.6E+03	9.7E+02	1.4E+02	1.7E+02	3.8E+02	4.7E+02	2.4E+02	3.9E+02	1.1E+03	1.4E+03	7.0E+02	2.8E+02	1.7E+03	8.6E+02	9.5E+01	9.5E+01
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00</		

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Environmental Impact of Use stage

Impact Category \ Product ID	2CDL810141R1003	2CDL810141R1037	2CDL830141R1037	2CDL810141R1005	2CDL802141R1055	2CDL802141R1018	2CDL820141R1040	2CDL803141R1111	2CDL833141R1011	2CDL803141R1024	2CDL833141R1024	2CDL830141R1066	2CDL804142R1110	2CDL804141R1055	2CDL840142R1012	2CDB927008R1018	2CDB927008R1156	2CDB927008R1056	2CDB927008R1656	2CDB937008R1018	2CDB937008R1157	2CDB937008R1057	2CDB937008R1657	2CDB947121R1618	2CDB947008R1054	2CDB947018R1654	2CDB947008R1654	2CDB947121R1654	2CDB947008R1156	2CDB947008R1056	2CDB947008R1656	2CDB947008R1009	2CDB926001R1018	2CDB926001R1156	2CDB926001R1056	2CDB926001R1656	
Climatic change - Total (kg CO2 eq.)	5,7E-01	1,0E+01	1,0E+01	1,1E+00	6,3E+01	1,9E+01	2,2E+01	9,3E+01	9,3E+01	1,8E+01	1,8E+01	5,4E+01	8,9E+01	9,2E+01	6,8E+00	8,6E+00	2,9E+01	2,9E+01	1,5E+01	1,2E+01	4,3E+01	4,3E+01	2,2E+01	7,5E+00	5,3E+01	2,7E+01	2,7E+01	2,7E+01	5,6E+01	5,6E+01	0,0E+00	5,3E+00	9,1E+00	3,1E+01	3,1E+01	1,4E+01	
Climatic change - Fossil (kg CO2 eq.)	5,4E-01	9,8E+00	9,8E+00	1,1E+00	6,0E+01	1,8E+01	2,1E+01	8,9E+01	8,9E+01	1,7E+01	1,7E+01	5,1E+01	8,5E+01	8,8E+01	6,5E+00	8,2E+00	2,8E+01	2,8E+01	1,4E+01	1,1E+01	4,1E+01	4,1E+01	2,1E+01	7,2E+00	5,1E+01	2,6E+01	2,6E+01	2,6E+01	5,3E+01	5,3E+01	0,0E+00	5,1E+00	8,7E+00	2,9E+01	2,9E+01	1,3E+01	
Climatic change - Biogenic (kg CO2 eq.)	2,4E-02	4,4E-01	4,4E-01	4,9E-02	2,7E+00	8,3E-01	9,3E-01	4,0E+00	4,0E+00	7,7E-01	7,7E-01	2,3E+00	3,8E+00	4,0E+00	2,9E-01	3,7E-01	1,2E+00	1,2E+00	6,2E-01	5,2E-01	1,9E+00	1,9E+00	9,4E-01	3,2E-01	2,3E+00	1,2E+00	1,2E+00	1,2E+00	2,4E+00	2,4E+00	0,0E+00	2,3E-01	3,9E-01	1,3E+00	1,3E+00	6,0E-01	
Climatic change - luluc (kg CO2 eq.)	1,1E-03	2,0E-02	2,0E-02	2,2E-03	1,2E-01	3,8E-02	4,2E-02	1,8E-01	1,8E-01	3,5E-02	3,5E-02	1,1E-01	1,7E-01	1,8E-01	1,3E-02	1,7E-02	5,6E-02	5,6E-02	2,8E-02	2,4E-02	8,5E-02	8,5E-02	4,3E-02	1,5E-02	1,0E-01	5,3E-02	5,3E-02	5,3E-02	1,1E-01	1,1E-01	0,0E+00	1,0E-02	1,8E-02	6,0E-02	6,0E-02	2,7E-02	
Ozone depletion (kg CFC-11 eq.)	1,3E-08	2,3E-07	2,3E-07	2,5E-08	1,4E-06	4,3E-07	4,8E-07	2,1E-06	2,1E-06	4,0E-07	4,0E-07	1,2E-06	2,0E-06	2,1E-06	1,5E-07	1,9E-07	6,4E-07	6,4E-07	3,2E-07	2,7E-07	9,6E-07	9,6E-07	4,9E-07	1,7E-07	1,2E-06	6,0E-07	6,0E-07	6,0E-07	1,2E-06	1,2E-06	0,0E+00	1,2E-07	2,0E-07	6,8E-07	6,8E-07	3,1E-07	
Acidification potential (AP) (mol H+ eq.)	2,1E-03	3,8E-02	3,8E-02	4,2E-03	2,3E-01	7,1E-02	8,0E-02	3,4E-01	3,4E-01	6,6E-02	6,6E-02	2,0E-01	3,3E-01	3,4E-01	2,5E-02	3,1E-02	1,1E-01	1,1E-01	5,3E-02	4,4E-02	1,6E-01	1,6E-01	8,0E-02	2,8E-02	2,0E-01	9,9E-02	9,9E-02	9,9E-02	2,0E-01	2,0E-01	0,0E+00	2,0E-02	3,4E-02	1,1E-01	1,1E-01	5,1E-02	
Freshwater eutrophication (kg P eq.)	4,2E-04	7,5E-03	7,5E-03	8,3E-04	4,6E-02	1,4E-02	1,6E-02	6,8E-02	6,8E-02	1,3E-02	1,3E-02	3,9E-02	6,5E-02	6,8E-02	5,0E-03	6,3E-03	2,1E-02	2,1E-02	1,1E-02	8,8E-03	3,2E-02	3,2E-02	1,6E-02	5,5E-03	3,9E-02	2,0E-02	2,0E-02	2,0E-02	4,1E-02	4,1E-02	0,0E+00	3,9E-03	6,7E-03	2,3E-02	2,3E-02	1,0E-02	
Marine aquatic eutrophication (kg N eq.)	4,3E-04	7,7E-03	7,7E-03	8,6E-04	4,7E-02	1,5E-02	1,6E-02	7,0E-02	7,0E-02	1,4E-02	1,4E-02	4,1E-02	6,7E-02	6,9E-02	5,1E-03	6,4E-03	2,2E-02	2,2E-02	1,1E-02	9,1E-03	3,3E-02	3,3E-02	1,6E-02	5,7E-03	4,0E-02	2,0E-02	2,0E-02	2,0E-02	4,2E-02	4,2E-02	0,0E+00	4,0E-03	6,9E-03	2,3E-02	2,3E-02	1,1E-02	
Terrestrial eutrophication (mol N eq.)	3,9E-03	6,9E-02	6,9E-02	7,7E-03	4,2E-01	1,3E-01	1,5E-01	6,3E-01	6,3E-01	1,2E-01	1,2E-01	3,6E-01	6,0E-01	6,2E-01	4,6E-02	5,8E-02	2,0E-01	2,0E-01	9,8E-02	8,1E-02	2,9E-01	2,9E-01	1,5E-01	5,1E-02	3,6E-01	1,8E-01	1,8E-01	1,8E-01	3,8E-01	3,8E-01	0,0E+00	3,6E-02	6,2E-02	2,1E-01	2,1E-01	9,4E-02	
Photochemical ozone creation (POCP) (kg NMVOC eq.)	1,2E-03	2,2E-02	2,2E-02	2,5E-03	1,4E-01	4,2E-02	4,7E-02	2,0E-01	2,0E-01	3,9E-02	3,9E-02	1,2E-01	1,9E-01	2,0E-01	1,5E-02	1,9E-02	6,3E-02	6,3E-02	3,2E-02	2,6E-02	9,4E-02	9,4E-02	4,8E-02	1,6E-02	1,2E-01	5,9E-02	5,9E-02	5,9E-02	1,2E-01	1,2E-01	0,0E+00	1,2E-02	2,0E-02	6,7E-02	6,7E-02	3,0E-02	
ADP-minerals & metals (kg Sb eq.)	9,6E-06	1,7E-04	1,7E-04	1,9E-05	1,1E-03	3,2E-04	3,6E-04	1,6E-03	1,6E-03	3,0E-04	3,0E-04	9,0E-04	1,5E-03	1,5E-03	1,1E-04	1,4E-04	4,8E-04	4,8E-04	2,4E-04	2,0E-04	7,3E-04	7,3E-04	3,7E-04	1,3E-04	9,0E-04	4,5E-04	4,5E-04	4,5E-04	9,3E-04	9,3E-04	0,0E+00	9,0E-05	1,5E-04	5,2E-04	5,2E-04	2,3E-04	
ADP-fossil (MJ)	1,6E+01	2,9E+02	2,9E+02	3,2E+01	1,7E+03	5,4E+02	6,0E+02	2,6E+03	2,6E+03	5,0E+02	5,0E+02	1,5E+03	2,5E+03	2,6E+03	1,9E+02	2,4E+02	8,1E+02	8,1E+02	4,1E+02	3,4E+02	1,2E+03	1,2E+03	6,1E+02	2,1E+02	1,5E+03	7,5E+02	7,5E+02	7,5E+02	1,6E+03	1,6E+03	0,0E+00	1,5E+02	2,5E+02	8,6E+02	8,6E+02	3,9E+02	
Water Deprivation potential (WDP) (m3 e depr.)	1,8E-01	3,2E+00	3,2E+00	3,6E-01	2,0E+01	6,1E+00	6,8E+00	2,9E+01	2,9E+01	5,6E+00	5,6E+00	1,7E+01	2,8E+01	2,9E+01	2,1E+00	2,7E+00	9,1E+00	9,1E+00	4,6E+00	3,8E+00	1,4E+01	1,4E+01	6,8E+00	2,4E+00	1,7E+01	8,4E+00	8,4E+00	8,4E+00	1,7E+01	1,7E+01	0,0E+00	1,7E+00	2,9E+00	9,7E+00	9,7E+00	4,4E+00	
Emission of fine particles (incidence of diseases)	1,1E-08	2,0E-07	2,0E-07	2,3E-08	1,3E-06	3,9E-07	4,3E-07	1,9E-06	1,9E-06	3,6E-07	3,6E-07	1,1E-06	1,8E-06	1,8E-06	1,4E-07	1,7E-07	5,8E-07	5,8E-07	2,9E-07	2,4E-07	8,6E-07	8,6E-07	4,4E-07	1,5E-07	1,1E-06	5,4E-07	5,4E-07	5,4E-07	1,1E-06	1,1E-06	0,0E+00	1,1E-07	1,8E-07	6,1E-07	6,1E-07	2,8E-07	
Ionizing radiation, human health (kBq of U235 equiv.)	5,2E-01	9,3E+00	9,3E+00	1,0E+00	5,7E+01	1,8E+01	2,0E+01	8,5E+01	8,5E+01	1,6E+01	1,6E+01	4,9E+01	8,1E+01	8,4E+01	6,2E+00	7,8E+00	2,6E+01	2,6E+01	1,3E+01	1,1E+01	3,9E+01	3,9E+01	2,0E+01	6,8E+00	4,9E+01	2,4E+01	2,4E+01	2,4E+01	5,1E+01	5,1E+01	0,0E+00	4,9E+00	8,3E+00	2,8E+01	2,8E+01	1,3E+01	
Ecotoxicity (fresh water) (CTUe)	1,8E+00	3,2E+01	3,2E+01	3,6E+00	2,0E+02	6,1E+01	6,8E+01	2,9E+02	2,9E+02	5,7E+01	5,7E+01	1,7E+02	2,8E+02	2,9E+02	2,2E+01	2,7E+01	9,1E+01	9,1E+01	4,6E+01	3,8E+01	1,4E+02	1,4E+02	6,9E+01	2,4E+01	1,7E+02	8,5E+01	8,5E+01	8,5E+01	1,8E+02	1,8E+02	0,0E+00	1,7E+01	2,9E+01	9,7E+01	9,7E+01	4,4E+01	
Human toxicity, carcinogenic effects (CTUh)	1,7E-10	3,0E-09	3,0E-09	3,3E-10	1,8E-08	5,7E-09	6,3E-09	2,7E-08	2,7E-08	5,3E-09	5,3E-09	1,6E-08	2,6E-08	2,7E-08	2,0E-09	2,5E-09	8,5E-09	8,5E-09	4,3E-09	3,5E-09	1,3E-08	1,3E-08	6,4E-09	2,2E-09	1,6E-08	7,9E-09	7,9E-09	7,9E-09	1,6E-08	1,6E-08	0,0E+00	1,6E-09	2,7E-09	9,0E-09	9,0E-09	4,1E-09	
Human toxicity, non-carcinogenic effects (CTUh)	9,2E-09	1,6E-07	1,6E-07	1,8E-08	1,0E-06	3,1E-07	3,5E-07	1,5E-06	1,5E-06	2,9E-07	2,9E-07	8,7E-07	1,4E-06	1,5E-06	1,1E-07	1,4E-07	4,6E-07	4,6E-07	2,3E-07	1,9E-07	7,0E-07	7,0E-07	3,5E-07	1,2E-07	8,6E-07	4,3E-07	4,3E-07	4,3E-07	8,9E-07	8,9E-07	0,0E+00	8,6E-08	1,5E-07	4,9E-07	4,9E-07	2,2E-07	
Impacts related to land use/soil quality (-)	3,1E+00	5,6E+01	5,6E+01	6,3E+00	3,4E+02	1,1E+02	1,2E+02	5,1E+02	5,1E+02	9,9E+01	9,9E+01	3,0E+02	4,9E+02	5,1E+02	3,8E+01	4,7E+01	1,6E+02	1,6E+02	8,0E+01	6,6E+01	2,4E+02	2,4E+02	1,2E+02	4,1E+01	2,9E+02	1,5E+02	1,5E+02	1,5E+02	3,1E+02	3,1E+02	0,0E+00	2,9E+01	5,0E+01	1,7E+02	1,7E+02	7,7E+01	
PERE (MJ)	3,4E+00	6,1E+01	6,1E+01	6,8E+00	3,8E+02	1,2E+02	1,3E+02	5,6E+02	5,6E+02	1,1E+02	1,1E+02	3,2E+02	5,3E+02	5,5E+02	4,1E+01	5,1E+01	1,7E+02	1,7E+02	8,7E+01	7,2E+01	2,6E+02	2,6E+02	1,3E+02	4,5E+01	3,2E+02	1,6E+02	1,6E+02	1,6E+02	3,3E+02	3,3E+02	0,0E+00	3,2E+01	5,5E+01	1,8E+02	1,8E+02	8,4E+01	
PERM (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PERT (MJ)	3,4E+00	6,1E+01	6,1E+01	6,8E+00	3,8E+02	1,2E+02	1,3E+02	5,6E+02	5,6E+02	1,1E+02	1,1E+02	3,2E+02	5,3E+02	5,5E+02	4,1E+01	5,1E+01	1,7E+02	1,7E+02	8,7E+01	7,2E+01	2,6E+02	2,6E+02	1,3E+02	4,5E+01	3,2E+02	1,6E+02	1,6E+02	1,6E+02	3,3E+02	3,3E+02	0,0E+00	3,2E+01	5,5E+01	1,8E+02	1,8E+02	8,4E+01	
PENRE (MJ)	1,6E+01	2,9E+02	2,9E+02	3,2E+01	1,7E+03	5,4E+02	6,0E+02	2,6E+03	2,6E+03	5,0E+02	5,0E+02	1,5E+03	2,5E+03	2,6E+03	1,9E+02	2,4E+02	8,1E+02	8,1E+02	4,1E+02	3,4E+02	1,2E+03	1,2E+03	6,1E+02	2,1E+02	1,5E+03	7,5E+02	7,5E+02	7,5E+02	1,6E+03	1,6E+03	0,0E+00	1,5E+02	2,5E+02	8,6E+02	8,6E+02	3,9E+02	
PENRM (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
PENRT (MJ)	1,6E+01	2,9E+02	2,9E+02	3,2E+01	1,7E+03	5,4E+02	6,0E+02	2,6E+03	2,6E+03	5,0E+02	5,0E+02	1,5E+03	2,5E+03	2,6E+03	1,9E+02	2,4E+02	8,1E+02	8,1E+02	4,1E+02	3,4E+02	1,2E+03	1,2E+03	6,1E+02	2,1E+02	1,5E+03	7,5E+02	7,5E+02	7,5E+02	1,6E+03	1,6E+03	0,0E+00	1,5E+02	2,5E+02	8,6E+02	8,6E+02	3,9E+02	
Use of secondary materials (kg)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E					

APPENDIX A

Environmental Impact of Use stage

Impact Category \ Product ID	2CDB936001R1018	2CDB936001R1157	2CDB936001R1057	2CDB936001R1657	2CDB946001R1118	2CDB946001R1018	2CDB946001R1154	2CDB946001R1054	2CDB946001R1654	2CDB946001R1056	2CDB946001R1656	2CDB946011R1656	2C5L010000R0003	2CDL800001R0021	2CDL800001R0030	2CDL800001R0040	2CDB806001R0011	2CDB806001R0021	2CDB806001R0031	2CDB806001R0032	2CDB806001R0041	2CDL800001R2514	2CDL800001R0051	2CDB806001R0051
Climatic change - Total (kg CO2 eq.)	1,3E+01	4,6E+01	4,6E+01	2,1E+01	1,6E+01	1,6E+01	5,7E+01	5,7E+01	2,6E+01	5,9E+01	2,7E+01	2,7E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Climatic change - Fossil (kg CO2 eq.)	1,2E+01	4,4E+01	4,4E+01	2,0E+01	1,5E+01	1,5E+01	5,4E+01	5,4E+01	2,5E+01	5,7E+01	2,6E+01	2,6E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Climatic change - Biogenic (kg CO2 eq.)	5,5E-01	2,0E+00	2,0E+00	9,0E-01	6,8E-01	6,8E-01	2,4E+00	2,4E+00	1,1E+00	2,5E+00	1,2E+00	1,2E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Climatic change - luluc (kg CO2 eq.)	2,5E-02	9,0E-02	9,0E-02	4,1E-02	3,1E-02	3,1E-02	1,1E-01	1,1E-01	5,1E-02	1,2E-01	5,3E-02	5,3E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Ozone depletion (kg CFC-11 eq.)	2,9E-07	1,0E-06	1,0E-06	4,7E-07	3,6E-07	3,6E-07	1,3E-06	1,3E-06	5,8E-07	1,3E-06	6,0E-07	6,0E-07	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Acidification potential (AP) (mol H+ eq)	4,7E-02	1,7E-01	1,7E-01	7,7E-02	5,9E-02	5,9E-02	2,1E-01	2,1E-01	9,5E-02	2,2E-01	9,9E-02	9,9E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Freshwater eutrophication (kg P eq.)	9,4E-03	3,4E-02	3,4E-02	1,5E-02	1,2E-02	1,2E-02	4,2E-02	4,2E-02	1,9E-02	4,3E-02	2,0E-02	2,0E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Marine aquatic eutrophication (kg N eq.)	9,7E-03	3,5E-02	3,5E-02	1,6E-02	1,2E-02	1,2E-02	4,3E-02	4,3E-02	1,9E-02	4,5E-02	2,0E-02	2,0E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Terrestrial eutrophication (mol N eq.)	8,7E-02	3,1E-01	3,1E-01	1,4E-01	1,1E-01	1,1E-01	3,9E-01	3,9E-01	1,7E-01	4,0E-01	1,8E-01	1,8E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Photochemical ozone creation (POCP) (kg NMVOC eq.)	2,8E-02	1,0E-01	1,0E-01	4,6E-02	3,5E-02	3,5E-02	1,2E-01	1,2E-01	5,6E-02	1,3E-01	5,9E-02	5,9E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
ADP-minerals & metals (kg Sb eq.)	2,1E-04	7,7E-04	7,7E-04	3,5E-04	2,7E-04	2,7E-04	9,6E-04	9,6E-04	4,3E-04	9,9E-04	4,5E-04	4,5E-04	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
ADP-fossil (MJ)	3,6E+02	1,3E+03	1,3E+03	5,8E+02	4,5E+02	4,5E+02	1,6E+03	1,6E+03	7,2E+02	1,7E+03	7,5E+02	7,5E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Water Deprivation potential (WDP) (m3 e depr.)	4,0E+00	1,4E+01	1,4E+01	6,6E+00	5,0E+00	5,0E+00	1,8E+01	1,8E+01	8,1E+00	1,9E+01	8,4E+00	8,4E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Emission of fine particles (incidence of diseases)	2,6E-07	9,2E-07	9,2E-07	4,2E-07	3,2E-07	3,2E-07	1,1E-06	1,1E-06	5,2E-07	1,2E-06	5,4E-07	5,4E-07	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Ionizing radiation, human health (kBq of U235 equiv.)	1,2E+01	4,2E+01	4,2E+01	1,9E+01	1,4E+01	1,4E+01	5,2E+01	5,2E+01	2,3E+01	5,4E+01	2,4E+01	2,4E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Ecotoxicity (fresh water) (CTUe)	4,0E+01	1,5E+02	1,5E+02	6,6E+01	5,0E+01	5,0E+01	1,8E+02	1,8E+02	8,1E+01	1,9E+02	8,5E+01	8,5E+01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Human toxicity, carcinogenic effects (CTUh)	3,8E-09	1,4E-08	1,4E-08	6,1E-09	4,7E-09	4,7E-09	1,7E-08	1,7E-08	7,6E-09	1,7E-08	7,9E-09	7,9E-09	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Human toxicity, non-carcinogenic effects (CTUh)	2,1E-07	7,4E-07	7,4E-07	3,4E-07	2,6E-07	2,6E-07	9,2E-07	9,2E-07	4,2E-07	9,5E-07	4,3E-07	4,3E-07	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Impacts related to land use/soil quality (-)	7,0E+01	2,5E+02	2,5E+02	1,1E+02	8,8E+01	8,8E+01	3,1E+02	3,1E+02	1,4E+02	3,3E+02	1,5E+02	1,5E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PERE (MJ)	7,7E+01	2,8E+02	2,8E+02	1,3E+02	9,6E+01	9,6E+01	3,4E+02	3,4E+02	1,5E+02	3,6E+02	1,6E+02	1,6E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PERM (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PERT (MJ)	7,7E+01	2,8E+02	2,8E+02	1,3E+02	9,6E+01	9,6E+01	3,4E+02	3,4E+02	1,5E+02	3,6E+02	1,6E+02	1,6E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PENRE (MJ)	3,6E+02	1,3E+03	1,3E+03	5,8E+02	4,5E+02	4,5E+02	1,6E+03	1,6E+03	7,2E+02	1,7E+03	7,5E+02	7,5E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PENRM (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
PENRT (MJ)	3,6E+02	1,3E+03	1,3E+03	5,8E+02	4,5E+02	4,5E+02	1,6E+03	1,6E+03	7,2E+02	1,7E+03	7,5E+02	7,5E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Use of secondary materials (kg)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Use of renewables secondary fuels (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Use of non-renewables secondary fuels (MJ)	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Net freshwater use (m3)	1,5E-01	5,3E-01	5,3E-01	2,4E-01	1,8E-01	1,8E-01	6,5E-01	6,5E-01	3,0E-01	6,8E-01	3,1E-01	3,1E-01	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Total use of primary energy (MJ)	4,3E+02	1,6E+03	1,6E+03	7,1E+02	5,4E+02	5,4E+02	1,9E+03	1,9E+03	8,8E+02	2,0E+03	9,1E+02	9,1E+02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Hazardous waste disposed (kg)	1,4E-02	4,9E-02	4,9E-02	2,2E-02	1,7E-02	1,7E-02	6,1E-02	6,1E-02	2,8E-02	6,3E-02	2,9E-02	2,9E-02	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Non-hazardous waste disposed (kg)	1,1E+00	4,1E+00	4,1E+00	1,9E+00	1,4E+00	1,4E+00	5,1E+00	5,1E+00	2,3E+00	5,3E+00	2,4E+00	2,4E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	
Radioactive waste disposed (kg)	2,9E-03	1,1E-02	1,1E-02	4,8E-03	3,6E-03	3,6E-03	1,3E-02	1,3E-02	5,9E-03	1,4E-0														

APPENDIX A

Environmental Impact of End of life stage

Impact Category \ Product ID	2CSL01012R1012	2CSL01012R1012	2CSL01001R1012	2CSL01001R1012	2CSL01000R1012	2CSL01010R1012	2CSL01000R1056	2CSL01010R1056	2CSL01000R1012	2CSL01000R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL80114SR1013	2CDL80114IR1013
Climatic change - Total (kg CO2 eq.)	3.1E-02	8.2E-02	3.1E-02	8.2E-02	3.1E-02	3.1E-02	1.5E-01	1.5E-01	8.2E-02	4.5E-01	5.3E-02	1.0E-01	3.1E-01	3.7E-01	8.7E-02	1.4E-01	3.7E-01	4.9E-01	5.4E-01	1.8E-01	6.2E-01	6.9E-01	5.0E-02	6.2E-02	2.9E-01	3.5E-01	8.3E-02	1.3E-01	3.5E-01	4.6E-01	5.1E-01	1.0E-01	5.8E-01	6.5E-01	3.9E-02	3.9E-02
Climatic change - Fossil (kg CO2 eq.)	3.1E-02	8.1E-02	3.1E-02	8.1E-02	3.1E-02	3.1E-02	1.5E-01	1.5E-01	8.1E-02	4.5E-01	5.3E-02	1.0E-01	3.0E-01	3.7E-01	8.7E-02	1.4E-01	3.7E-01	4.8E-01	5.4E-01	1.8E-01	6.1E-01	6.9E-01	5.0E-02	6.1E-02	2.9E-01	3.5E-01	8.2E-02	1.3E-01	3.5E-01	4.5E-01	5.1E-01	1.0E-01	5.8E-01	6.5E-01	3.8E-02	3.8E-02
Climatic change - Biogenic (kg CO2 eq.)	1.6E-04	3.6E-04	1.6E-04	3.6E-04	1.6E-04	1.6E-04	7.9E-04	7.9E-04	3.6E-04	2.2E-03	2.4E-04	4.9E-04	1.6E-03	1.9E-03	4.1E-04	6.8E-04	1.9E-03	2.5E-03	2.9E-03	9.0E-04	3.2E-03	3.7E-03	2.2E-04	2.8E-04	1.4E-03	1.8E-03	3.8E-04	6.3E-04	1.7E-03	2.2E-03	2.6E-03	4.7E-04	2.9E-03	3.4E-03	1.8E-04	1.8E-04
Climatic change - luluc (kg CO2 eq.)	3.2E-05	7.4E-05	3.2E-05	7.4E-05	3.2E-05	3.2E-05	1.6E-04	1.6E-04	7.4E-05	4.4E-04	5.0E-05	1.0E-04	3.2E-04	3.9E-04	8.4E-05	1.4E-04	3.8E-04	5.0E-04	5.8E-04	1.8E-04	6.5E-04	7.6E-04	4.6E-05	5.7E-05	2.9E-04	3.6E-04	7.7E-05	1.3E-04	3.5E-04	4.6E-04	5.4E-04	9.6E-05	6.0E-04	7.0E-04	3.6E-05	3.6E-05
Ozone depletion (kg CFC-11 eq.)	2.8E-10	6.5E-10	2.8E-10	6.5E-10	2.8E-10	2.8E-10	1.4E-09	1.4E-09	6.5E-10	3.8E-09	4.4E-10	8.7E-10	2.7E-09	3.4E-09	7.3E-10	1.2E-09	3.3E-09	4.3E-09	5.0E-09	1.6E-09	5.6E-09	6.5E-09	4.0E-10	5.0E-10	2.5E-09	3.1E-09	6.7E-10	1.1E-09	3.0E-09	4.0E-09	4.6E-09	8.5E-10	5.1E-09	6.0E-09	3.2E-10	3.2E-10
Acidification potential (AP) (mol H+ eq)	1.1E-03	2.6E-03	1.1E-03	2.6E-03	1.1E-03	1.1E-03	5.7E-03	5.7E-03	2.6E-03	1.6E-02	1.8E-03	3.5E-03	1.1E-02	1.4E-02	3.0E-03	4.9E-03	1.3E-02	1.8E-02	2.1E-02	6.5E-03	2.3E-02	2.7E-02	1.6E-03	2.0E-03	1.0E-02	1.3E-02	2.7E-03	4.5E-03	1.2E-02	1.6E-02	1.9E-02	3.4E-03	2.1E-02	2.5E-02	1.3E-03	1.3E-03
Freshwater eutrophication (kg P eq.)	5.7E-05	1.3E-04	5.7E-05	1.3E-04	5.7E-05	5.7E-05	2.8E-04	2.8E-04	1.3E-04	7.7E-04	8.7E-05	1.7E-04	5.6E-04	6.9E-04	1.5E-04	2.4E-04	6.7E-04	8.8E-04	1.0E-03	3.2E-04	1.1E-03	1.3E-03	8.0E-05	1.0E-04	5.2E-04	6.3E-04	1.3E-04	2.2E-04	6.1E-04	8.0E-04	9.4E-04	1.7E-04	1.1E-03	1.2E-03	6.3E-05	6.3E-05
Marine aquatic eutrophication (kg N eq.)	6.2E-05	1.5E-04	6.2E-05	1.5E-04	6.2E-05	6.2E-05	3.1E-04	3.1E-04	1.5E-04	8.7E-04	1.0E-04	2.0E-04	6.1E-04	7.5E-04	1.7E-04	2.7E-04	7.3E-04	9.6E-04	1.1E-03	3.6E-04	1.2E-03	1.4E-03	9.3E-05	1.2E-04	5.7E-04	6.9E-04	1.5E-04	2.5E-04	6.8E-04	8.9E-04	1.0E-03	1.9E-04	1.1E-03	1.3E-03	7.3E-05	7.3E-05
Terrestrial eutrophication (mol N eq.)	7.1E-04	1.6E-03	7.1E-04	1.6E-03	7.1E-04	7.1E-04	3.5E-03	3.5E-03	1.6E-03	9.6E-03	1.1E-03	2.2E-03	7.0E-03	8.6E-03	1.8E-03	3.0E-03	8.3E-03	1.1E-02	1.3E-02	4.0E-03	1.4E-02	1.7E-02	1.0E-03	1.3E-03	6.4E-03	7.9E-03	1.7E-03	2.8E-03	7.6E-03	1.0E-02	1.2E-02	2.1E-03	1.3E-02	1.5E-02	7.9E-04	7.9E-04
Photochemical ozone creation (POCP) (kg NMVOC eq.)	2.3E-04	5.2E-04	2.3E-04	5.2E-04	2.3E-04	2.3E-04	1.1E-03	1.1E-03	5.2E-04	3.1E-03	3.5E-04	7.0E-04	2.2E-03	2.7E-03	5.9E-04	9.7E-04	2.6E-03	3.5E-03	4.1E-03	1.3E-03	4.5E-03	5.3E-03	3.2E-04	4.0E-04	2.1E-03	2.5E-03	5.4E-04	8.9E-04	2.4E-03	3.2E-03	3.7E-03	6.8E-04	4.2E-03	4.9E-03	2.5E-04	2.5E-04
ADP-minerals & metals (kg Sb eq.)	1.4E-05	3.3E-05	1.4E-05	3.3E-05	1.4E-05	1.4E-05	7.2E-05	7.2E-05	3.3E-05	2.0E-04	2.2E-05	4.4E-05	1.4E-04	1.8E-04	3.7E-05	6.2E-05	1.7E-04	2.2E-04	2.6E-04	8.2E-05	2.9E-04	3.4E-04	2.0E-05	2.5E-05	1.3E-04	1.6E-04	3.4E-05	5.7E-05	1.6E-04	2.0E-04	2.4E-04	4.3E-05	2.7E-04	3.1E-04	1.6E-05	1.6E-05
ADP-fossil (MJ)	3.2E-01	7.4E-01	3.2E-01	7.4E-01	3.2E-01	3.2E-01	1.6E+00	1.6E+00	7.4E-01	4.4E+00	5.0E-01	9.9E-01	3.2E+00	3.9E+00	8.3E-01	1.4E+00	3.8E+00	5.0E+00	5.8E+00	1.8E+00	6.4E+00	7.5E+00	4.6E-01	5.7E-01	2.9E+00	3.6E+00	7.7E-01	1.3E+00	3.5E+00	4.6E+00	5.3E+00	9.6E-01	5.9E+00	6.9E+00	3.6E-01	3.6E-01
Water Deprivation potential (WDP) (m3 e depr.)	1.7E-02	3.8E-02	1.7E-02	3.8E-02	1.7E-02	1.7E-02	8.4E-02	8.4E-02	3.8E-02	2.3E-01	2.6E-02	5.2E-02	1.7E-01	2.0E-01	4.3E-02	7.2E-02	2.0E-01	2.6E-01	3.0E-01	9.5E-02	3.4E-01	4.0E-01	2.4E-02	2.9E-02	1.5E-01	1.9E-01	3.9E-02	6.6E-02	1.8E-01	2.4E-01	2.8E-01	4.9E-02	3.1E-01	3.6E-01	1.9E-02	1.9E-02
Emission of fine particles (incidence of diseases)	2.9E-09	6.6E-09	2.9E-09	6.6E-09	2.9E-09	2.9E-09	1.4E-08	1.4E-08	6.6E-09	3.9E-08	4.5E-09	8.9E-09	2.8E-08	3.5E-08	7.5E-09	1.2E-08	3.4E-08	4.4E-08	5.2E-08	1.6E-08	5.8E-08	6.7E-08	4.1E-09	5.1E-09	2.6E-08	3.2E-08	6.9E-09	1.1E-08	3.1E-08	4.1E-08	4.8E-08	8.6E-09	5.3E-08	6.2E-08	3.2E-09	3.2E-09
Ionizing radiation, human health (kBq of U235 equiv.)	3.8E-03	8.6E-03	3.8E-03	8.6E-03	3.8E-03	3.8E-03	1.9E-02	1.9E-02	8.6E-03	5.2E-02	5.8E-03	1.2E-02	3.8E-02	4.6E-02	9.8E-03	1.6E-02	4.4E-02	5.9E-02	6.8E-02	2.1E-02	7.6E-02	8.9E-02	5.4E-03	6.7E-03	3.4E-02	4.2E-02	9.0E-03	1.5E-02	4.1E-02	5.4E-02	6.3E-02	1.1E-02	7.0E-02	8.2E-02	4.2E-03	4.2E-03
Ecotoxicity (fresh water) (CTUe)	8.5E-01	1.9E+00	8.5E-01	1.9E+00	8.5E-01	8.5E-01	4.2E+00	4.2E+00	1.9E+00	1.2E+01	1.3E+00	2.6E+00	8.3E+00	1.0E+01	2.2E+00	3.6E+00	9.9E+00	1.3E+01	1.5E+01	4.8E+00	1.7E+01	2.0E+01	1.2E+00	1.5E+00	7.7E+00	9.4E+00	2.0E+00	3.4E+00	9.1E+00	1.2E+01	1.4E+01	2.5E+00	1.6E+01	1.8E+01	9.5E-01	9.5E-01
Human toxicity, carcinogenic effects (CTUh)	1.5E-10	3.4E-10	1.5E-10	3.4E-10	1.5E-10	1.5E-10	7.5E-10	7.5E-10	3.4E-10	2.0E-09	2.3E-10	4.6E-10	1.5E-09	1.8E-09	3.9E-10	6.4E-10	1.8E-09	2.3E-09	2.7E-09	8.4E-10	3.0E-09	3.5E-09	2.1E-10	2.6E-10	1.4E-09	1.7E-09	3.5E-10	5.9E-10	1.6E-09	2.1E-09	2.5E-09	4.4E-10	2.8E-09	3.2E-09	1.7E-10	1.7E-10
Human toxicity, non-carcinogenic effects (CTUh)	1.5E-08	3.3E-08	1.5E-08	3.3E-08	1.5E-08	1.5E-08	7.4E-08	7.4E-08	3.3E-08	2.0E-07	2.3E-08	4.5E-08	1.5E-07	1.8E-07	3.8E-08	6.3E-08	1.7E-07	2.3E-07	2.7E-07	8.4E-08	3.0E-07	3.5E-07	2.1E-08	2.6E-08	1.3E-07	1.6E-07	3.5E-08	5.8E-08	1.6E-07	2.1E-07	2.5E-07	4.4E-08	2.7E-07	3.2E-07	1.6E-08	1.6E-08
Impacts related to land use/soil quality (-)	4.5E-01	1.0E+00	4.5E-01	1.0E+00	4.5E-01	4.5E-01	2.3E+00	2.3E+00	1.0E+00	6.1E+00	7.0E-01	1.4E+00	4.4E+00	5.5E+00	1.2E+00	1.9E+00	5.3E+00	7.0E+00	8.1E+00	2.5E+00	9.1E+00	1.1E+01	6.4E-01	8.0E-01	4.1E+00	5.0E+00	1.1E+00	1.8E+00	4.9E+00	6.4E+00	7.5E+00	1.3E+00	8.3E+00	9.7E+00	5.1E-01	5.1E-01
PERE (MJ)	6.2E-02	1.4E-01	6.2E-02	1.4E-01	6.2E-02	6.2E-02	3.1E-01	3.1E-01	1.4E-01	8.5E-01	9.6E-02	1.9E-01	6.2E-01	7.6E-01	1.6E-01	2.7E-01	7.3E-01	9.6E-01	1.1E+00	3.5E-01	1.3E+00	1.5E+00	8.8E-02	1.1E-01	5.7E-01	6.9E-01	1.5E-01	2.5E-01	6.7E-01	8.8E-01	1.0E+00	1.8E-01	1.2E+00	1.3E+00	6.9E-02	6.9E-02
PERM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT (MJ)	6.2E-02	1.4E-01	6.2E-02	1.4E-01	6.2E-02	6.2E-02	3.1E-01	3.1E-01	1.4E-01	8.5E-01	9.6E-02	1.9E-01	6.2E-01	7.6E-01	1.6E-01	2.7E-01	7.3E-01	9.6E-01	1.1E+00	3.5E-01	1.3E+00	1.5E+00	8.8E-02	1.1E-01	5.7E-01	6.9E-01	1.5E-01	2.5E-01	6.7E-01	8.8E-01	1.0E+00	1.8E-01	1.2E+00	1.3E+00	6.9E-02	6.9E-02
PENRE (MJ)	3.2E-01	7.4E-01	3.2E-01	7.4E-01	3.2E-01	3.2E-01	1.6E+00	1.6E+00	7.4E-01	4.4E+00	5.0E-01	9.9E-01	3.2E+00	3.9E+00	8.3E-01	1.4E+00	3.8E+00	5.0E+00	5.8E+00	1.8E+00	6.4E+00	7.5E+00	4.6E-01	5.7E-01	2.9E+00	3.6E+00	7.7E-01	1.3E+00	3.5E+00	4.6E+00	5.3E+00	9.6E-01	5.9E+00	6.9E+00	3.6E-01	3.6E-01
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
PENRT (MJ)	3.2E-01	7.4E-01	3.2E-01	7.4E-01	3.2E-01	3.2E-01	1.6E+00	1.6E+00	7.4E-01	4.4E+00	5.0E-01	9.9E-01	3.2E+00	3.9E+00	8.3E-01	1.4E+00	3.8E+00	5.0E+00	5.8E+00	1.8E+00	6.4E+00	7.5E+00	4.6E-01	5.7E-01	2.9E+00	3.6E+00	7.7E-01	1.3E+00	3.5E+00	4.6E+00	5.3E+00	9.6E-01	5.9E+00	6.9E+00	3.6E-01	3.6E-01
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
Use																																				

APPENDIX A

Environmental Impact of End of life stage

Impact Category \ Product ID	2CDL810141R1003	2CDL810141R1037	2CDL830141R1037	2CDL810141R1005	2CDL802141R1055	2CDL802141R1018	2CDL820141R1040	2CDL803141R1111	2CDL833141R1011	2CDL803141R1024	2CDL833141R1024	2CDL830141R1066	2CDL804142R1110	2CDL804141R1055	2CDL840142R1012	2CDB927008R1018	2CDB927008R1156	2CDB927008R1056	2CDB927008R1656	2CDB937008R1018	2CDB937008R1157	2CDB937008R1057	2CDB937008R1657	2CDB947121R1618	2CDB947008R1054	2CDB947018R1654	2CDB947008R1654	2CDB947121R1654	2CDB947008R1156	2CDB947008R1056	2CDB947008R1656	2CDB947008R1009	2CDB9266001R1018	2CDB9266001R1156	2CDB9266001R1056	2CDB9266001R1656
Climatic change - Total (kg CO2 eq.)	7.3E-03	1.1E-01	1.1E-01	1.4E-02	6.4E-01	2.0E-01	2.2E-01	9.3E-01	9.3E-01	1.8E-01	1.8E-01	5.4E-01	1.3E+00	1.4E+00	1.5E-01	1.0E-01	3.3E-01	3.3E-01	3.7E-01	1.4E-01	4.7E-01	4.7E-01	5.3E-01	1.9E-01	5.7E-01	6.4E-01	6.4E-01	6.4E-01	6.0E-01	6.0E-01	6.7E-01	5.9E-02	9.6E-02	3.2E-01	3.2E-01	3.5E-01
Climatic change - Fossil (kg CO2 eq.)	7.3E-03	1.1E-01	1.1E-01	1.4E-02	6.3E-01	2.0E-01	2.2E-01	9.2E-01	9.2E-01	1.8E-01	1.8E-01	5.4E-01	1.3E+00	1.4E+00	1.5E-01	1.0E-01	3.3E-01	3.3E-01	3.7E-01	1.4E-01	4.7E-01	4.7E-01	5.3E-01	1.9E-01	5.7E-01	6.4E-01	6.4E-01	6.4E-01	5.9E-01	5.9E-01	6.6E-01	5.9E-02	9.6E-02	3.1E-01	3.1E-01	3.5E-01
Climatic change - Biogenic (kg CO2 eq.)	3.0E-05	5.3E-04	5.3E-04	5.9E-05	3.3E-03	1.0E-03	1.1E-03	4.9E-03	4.9E-03	9.5E-04	9.5E-04	2.9E-03	6.8E-03	7.4E-03	9.1E-04	4.9E-04	1.6E-03	1.6E-03	1.9E-03	6.6E-04	2.4E-03	2.4E-03	2.8E-03	9.5E-04	2.9E-03	3.4E-03	3.4E-03	3.4E-03	3.0E-03	3.0E-03	3.5E-03	2.2E-04	4.5E-04	1.5E-03	1.5E-03	1.8E-03
Climatic change - luluc (kg CO2 eq.)	6.1E-06	1.1E-04	1.1E-04	1.2E-05	6.7E-04	2.1E-04	2.3E-04	1.0E-03	1.0E-03	1.9E-04	1.9E-04	5.8E-04	1.4E-03	1.5E-03	1.3E-04	9.9E-05	3.4E-04	3.4E-04	3.9E-04	1.3E-04	4.8E-04	4.8E-04	5.6E-04	1.9E-04	5.9E-04	6.9E-04	6.9E-04	6.9E-04	6.1E-04	6.1E-04	7.2E-04	4.5E-05	9.1E-05	3.1E-04	3.1E-04	3.6E-04
Ozone depletion (kg CFC-11 eq.)	5.5E-11	9.5E-10	9.5E-10	1.1E-10	5.7E-09	1.8E-09	2.0E-09	8.6E-09	8.6E-09	1.7E-09	1.7E-09	5.0E-09	1.2E-08	1.3E-08	1.3E-09	8.6E-10	2.9E-09	2.9E-09	3.3E-09	1.2E-09	4.1E-09	4.1E-09	4.8E-09	1.7E-09	5.1E-09	5.9E-09	5.9E-09	5.9E-09	5.3E-09	5.3E-09	6.1E-09	4.2E-10	8.0E-10	2.7E-09	2.7E-09	3.1E-09
Acidification potential (AP) (mol H+ eq.)	2.1E-04	3.8E-03	3.8E-03	4.3E-04	2.4E-02	7.3E-03	8.2E-03	3.6E-02	3.6E-02	6.9E-03	6.9E-03	2.1E-02	4.9E-02	5.2E-02	4.4E-03	3.5E-03	1.2E-02	1.2E-02	1.4E-02	4.7E-03	1.7E-02	1.7E-02	2.0E-02	6.8E-03	2.1E-02	2.4E-02	2.4E-02	2.4E-02	2.2E-02	2.2E-02	2.5E-02	1.6E-03	3.2E-03	1.1E-02	1.1E-02	1.3E-02
Freshwater eutrophication (kg P eq.)	1.1E-05	1.9E-04	1.9E-04	2.1E-05	1.2E-03	3.6E-04	4.1E-04	1.8E-03	1.8E-03	3.4E-04	3.4E-04	1.0E-03	2.4E-03	2.6E-03	2.2E-04	1.7E-04	5.9E-04	5.9E-04	6.9E-04	2.3E-04	8.4E-04	8.4E-04	9.9E-04	3.4E-04	1.0E-03	1.2E-03	1.2E-03	1.2E-03	1.1E-03	1.1E-03	1.3E-03	7.8E-05	1.6E-04	5.4E-04	5.4E-04	6.3E-04
Marine aquatic eutrophication (kg N eq.)	1.3E-05	2.2E-04	2.2E-04	2.5E-05	1.3E-03	4.0E-04	4.4E-04	1.9E-03	1.9E-03	3.7E-04	3.7E-04	1.1E-03	2.6E-03	2.8E-03	2.6E-04	2.0E-04	6.5E-04	6.5E-04	7.5E-04	2.6E-04	9.3E-04	9.3E-04	1.1E-03	3.7E-04	1.1E-03	1.3E-03	1.3E-03	1.3E-03	1.2E-03	1.2E-03	1.3E-03	1.0E-04	1.8E-04	6.1E-04	6.1E-04	6.9E-04
Terrestrial eutrophication (mol N eq.)	1.3E-04	2.4E-03	2.4E-03	2.7E-04	1.5E-02	4.5E-03	5.0E-03	2.2E-02	2.2E-02	4.2E-03	4.2E-03	1.3E-02	3.0E-02	3.2E-02	2.8E-03	2.2E-03	7.3E-03	7.3E-03	8.5E-03	2.9E-03	1.1E-02	1.1E-02	1.2E-02	4.2E-03	1.3E-02	1.5E-02	1.5E-02	1.5E-02	1.3E-02	1.3E-02	1.6E-02	1.0E-03	2.0E-03	6.7E-03	6.7E-03	7.8E-03
Photochemical ozone creation (POCP) (kg NMVOC eq.)	4.3E-05	7.6E-04	7.6E-04	8.5E-05	4.7E-03	1.4E-03	1.6E-03	7.0E-03	7.0E-03	1.4E-03	1.4E-03	4.0E-03	9.6E-03	1.0E-02	9.1E-04	6.9E-04	2.3E-03	2.3E-03	2.7E-03	9.4E-04	3.4E-03	3.4E-03	3.9E-03	1.3E-03	4.1E-03	4.8E-03	4.8E-03	4.8E-03	4.3E-03	4.3E-03	5.0E-03	3.2E-04	6.4E-04	2.2E-03	2.2E-03	2.5E-03
ADP-minerals & metals (kg Sb eq.)	2.7E-06	4.8E-05	4.8E-05	5.4E-06	3.0E-04	9.2E-05	1.0E-04	4.5E-04	4.5E-04	8.7E-05	8.7E-05	2.6E-04	6.2E-04	6.5E-04	5.4E-05	4.4E-05	1.5E-04	1.5E-04	1.7E-04	6.0E-05	2.1E-04	2.1E-04	2.5E-04	8.6E-05	2.6E-04	3.1E-04	3.1E-04	3.1E-04	2.7E-04	2.7E-04	3.2E-04	2.0E-05	4.1E-05	1.4E-04	1.4E-04	1.6E-04
ADP-fossil (MJ)	6.2E-02	1.1E+00	1.1E+00	1.2E-01	6.6E+00	2.0E+00	2.3E+00	9.9E+00	9.9E+00	1.9E+00	1.9E+00	5.7E+00	1.4E+01	1.5E+01	1.4E+00	9.9E-01	3.3E+00	3.3E+00	3.9E+00	1.3E+00	4.8E+00	4.8E+00	5.6E+00	1.9E+00	5.8E+00	6.8E+00	6.8E+00	6.8E+00	6.1E+00	6.1E+00	7.1E+00	4.6E-01	9.1E-01	3.1E+00	3.1E+00	3.6E+00
Water Deprivation potential (WDP) (m3 e depr.)	3.1E-03	5.6E-02	5.6E-02	6.2E-03	3.5E-01	1.1E-01	1.2E-01	5.2E-01	5.2E-01	1.0E-01	1.0E-01	3.0E-01	7.2E-01	7.6E-01	6.5E-02	5.1E-02	1.7E-01	1.7E-01	2.0E-01	6.9E-02	2.5E-01	2.5E-01	2.9E-01	1.0E-01	3.1E-01	3.6E-01	3.6E-01	3.6E-01	3.2E-01	3.2E-01	3.7E-01	2.3E-02	4.7E-02	1.6E-01	1.6E-01	1.9E-01
Emission of fine particles (incidence of diseases)	5.5E-10	9.7E-09	9.7E-09	1.1E-09	5.9E-08	1.8E-08	2.1E-08	8.9E-08	8.9E-08	1.7E-08	1.7E-08	5.2E-08	1.2E-07	1.3E-07	1.2E-08	8.9E-09	3.0E-08	3.0E-08	3.5E-08	1.2E-08	4.3E-08	4.3E-08	5.0E-08	1.7E-08	5.2E-08	6.1E-08	6.1E-08	6.1E-08	5.5E-08	5.5E-08	6.4E-08	4.1E-09	8.2E-09	2.7E-08	2.7E-08	3.2E-08
Ionizing radiation, human health (kBq of U235 equiv.)	7.1E-04	1.3E-02	1.3E-02	1.4E-03	7.8E-02	2.4E-02	2.7E-02	1.2E-01	1.2E-01	2.3E-02	2.3E-02	6.8E-02	1.6E-01	1.7E-01	1.5E-02	1.2E-02	3.9E-02	3.9E-02	4.6E-02	1.6E-02	5.6E-02	5.6E-02	6.6E-02	2.3E-02	6.9E-02	8.1E-02	8.1E-02	8.1E-02	7.2E-02	7.2E-02	8.4E-02	5.2E-03	1.1E-02	3.6E-02	3.6E-02	4.2E-02
Ecotoxicity (fresh water) (CTUe)	1.6E-01	2.8E+00	2.8E+00	3.2E-01	1.7E+01	5.4E+00	6.0E+00	2.6E+01	2.6E+01	5.1E+00	5.1E+00	1.5E+01	3.6E+01	3.8E+01	3.3E+00	2.6E+00	8.8E+00	8.8E+00	1.0E+01	3.5E+00	1.3E+01	1.3E+01	1.5E+01	5.0E+00	1.5E+01	1.8E+01	1.8E+01	1.8E+01	1.6E+01	1.6E+01	1.9E+01	1.2E+00	2.4E+00	8.1E+00	8.1E+00	9.4E+00
Human toxicity, carcinogenic effects (CTUh)	2.8E-11	5.0E-10	5.0E-10	5.6E-11	3.1E-09	9.5E-10	1.1E-09	4.6E-09	4.6E-09	9.0E-10	9.0E-10	2.7E-09	6.4E-09	6.8E-09	6.4E-10	4.6E-10	1.5E-09	1.5E-09	1.8E-09	6.2E-10	2.2E-09	2.2E-09	2.6E-09	8.9E-10	2.7E-09	3.2E-09	3.2E-09	3.2E-09	2.8E-09	2.8E-09	3.3E-09	2.1E-10	4.2E-10	1.4E-09	1.4E-09	1.7E-09
Human toxicity, non-carcinogenic effects (CTUh)	2.7E-09	4.9E-08	4.9E-08	5.5E-09	3.1E-07	9.4E-08	1.1E-07	4.6E-07	4.6E-07	8.9E-08	8.9E-08	2.7E-07	6.3E-07	6.6E-07	5.6E-08	4.5E-08	1.5E-07	1.5E-07	1.8E-07	6.1E-08	2.2E-07	2.2E-07	2.6E-07	8.8E-08	2.7E-07	3.1E-07	3.1E-07	3.1E-07	2.8E-07	2.8E-07	3.3E-07	2.0E-08	4.2E-08	1.4E-07	1.4E-07	1.6E-07
Impacts related to land use/soil quality (-)	8.6E-02	1.5E+00	1.5E+00	1.7E-01	9.3E+00	2.9E+00	3.2E+00	1.4E+01	1.4E+01	2.7E+00	2.7E+00	8.1E+00	1.9E+01	2.0E+01	1.8E+00	1.4E+00	4.7E+00	4.7E+00	5.4E+00	1.9E+00	6.7E+00	6.7E+00	7.8E+00	2.7E+00	8.2E+00	9.6E+00	9.6E+00	9.6E+00	8.5E+00	8.5E+00	9.9E+00	6.4E-01	1.3E+00	4.3E+00	4.3E+00	5.0E+00
PERE (MJ)	1.2E-02	2.1E-01	2.1E-01	2.3E-02	1.3E+00	4.0E-01	4.4E-01	1.9E+00	1.9E+00	3.7E-01	3.7E-01	1.1E+00	2.7E+00	2.8E+00	2.5E-01	1.9E-01	6.4E-01	6.4E-01	7.5E-01	2.6E-01	9.3E-01	9.3E-01	1.1E+00	3.7E-01	1.1E+00	1.3E+00	1.3E+00	1.3E+00	1.2E+00	1.2E+00	1.4E+00	8.6E-02	1.8E-01	5.9E-01	5.9E-01	6.9E-01
PERM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT (MJ)	1.2E-02	2.1E-01	2.1E-01	2.3E-02	1.3E+00	4.0E-01	4.4E-01	1.9E+00	1.9E+00	3.7E-01	3.7E-01	1.1E+00	2.7E+00	2.8E+00	2.5E-01	1.9E-01	6.4E-01	6.4E-01	7.5E-01	2.6E-01	9.3E-01	9.3E-01	1.1E+00	3.7E-01	1.1E+00	1.3E+00	1.3E+00	1.3E+00	1.2E+00	1.2E+00	1.4E+00	8.6E-02	1.8E-01	5.9E-01	5.9E-01	6.9E-01
PENRE (MJ)	6.2E-02	1.1E+00	1.1E+00	1.2E-01	6.6E+00	2.0E+00	2.3E+00	9.9E+00	9.9E+00	1.9E+00	1.9E+00	5.7E+00	1.4E-01	1.5E+01	1.4E+00	9.9E-01	3.3E+00	3.3E+00	3.9E+00	1.3E+00	4.8E+00	4.8E+00	5.6E+00	1.9E+00	5.8E+00	6.8E+00	6.8E+00	6.8E+00	6.1E+00	6.1E+00	7.1E+00	4.6E-01	9.1E-01	3.1E+00	3.1E+00	3.6E+00
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT (MJ)	6.2E-02	1.1E+00	1.1E+00	1.2E-01	6.6E+00	2.0E+00	2.3E+00	9.9E+00	9.9E+00	1.9E+00	1.9E+00	5.7E+00	1.4E-01	1.5E+01	1.4E+00	9.9E-01	3.3E+00	3.3E+00	3.9E+00	1.3E+00	4.8E+00	4.8E+00	5.6E+00	1.9E+00	5.8E+00	6.8E+00	6.8E+00	6.8E+00	6.1E+00	6.1E+00	7.1E+00	4.6E-01	9.1E-01	3.1E+00	3.1E+00	3.6E+00
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00			

Environmental Impact of End of life stage

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APPENDIX A

Environmental Impact of Benefits & Loads stage

Impact Category \ Product ID	2CSL01012R1012	2CSL01012R1012	2CSL010001R1012	2CSL010001R1012	2CSL010001R1012	2CSL010101R1012	2CSL010001R1056	2CSL010101R1056	2CSL010003R1012	2CSL010003R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL80114R1013	2CDL80114R1013
Climatic change - Total (kg CO2 eq.)	-1.2E-01	-2.7E-01	-1.2E-01	-2.7E-01	-1.2E-01	-1.2E-01	-6.0E-01	-6.0E-01	-2.7E-01	-1.6E+00	-1.9E-01	-3.7E-01	-1.2E+00	-1.5E+00	-3.1E-01	-5.2E-01	-1.4E+00	-1.9E+00	-2.2E+00	-6.8E-01	-2.4E+00	-2.8E+00	-1.7E-01	-2.1E-01	-1.1E+00	-1.3E+00	-2.9E-01	-4.8E-01	-1.3E+00	-1.7E+00	-2.0E+00	-3.6E-01	-2.2E+00	-2.6E+00	-1.3E-01	-1.3E-01
Climatic change - Fossil (kg CO2 eq.)	-1.2E-01	-2.8E-01	-1.2E-01	-2.8E-01	-1.2E-01	-1.2E-01	-6.1E-01	-6.1E-01	-2.8E-01	-1.7E+00	-1.9E-01	-3.7E-01	-1.2E+00	-1.5E+00	-3.1E-01	-5.2E-01	-1.4E+00	-1.9E+00	-2.2E+00	-6.8E-01	-2.4E+00	-2.8E+00	-1.7E-01	-2.2E-01	-1.1E+00	-1.3E+00	-2.9E-01	-4.8E-01	-1.3E+00	-1.7E+00	-2.0E+00	-3.6E-01	-2.2E+00	-2.6E+00	-1.4E-01	-1.4E-01
Climatic change - Biogenic (kg CO2 eq.)	1.1E-03	3.4E-03	1.1E-03	3.4E-03	1.1E-03	1.1E-03	5.2E-03	5.2E-03	3.4E-03	1.6E-02	1.6E-03	2.8E-03	7.1E-03	8.6E-03	2.9E-03	4.3E-03	1.0E-02	1.3E-02	1.3E-02	5.8E-03	1.7E-02	1.7E-02	1.6E-03	1.9E-03	7.1E-03	8.7E-03	2.9E-03	4.3E-03	1.1E-02	1.4E-02	1.3E-02	3.9E-03	1.7E-02	1.7E-02	1.7E-03	1.7E-03
Climatic change - luluc (kg CO2 eq.)	-2.4E-04	-5.5E-04	-2.4E-04	-5.5E-04	-2.4E-04	-2.4E-04	-1.2E-03	-1.2E-03	-5.5E-04	-3.3E-03	-3.7E-04	-7.4E-04	-2.4E-03	-2.9E-03	-6.2E-04	-1.0E-03	-2.8E-03	-3.7E-03	-4.3E-03	-1.4E-03	-4.8E-03	-5.6E-03	-3.4E-04	-4.3E-04	-2.2E-03	-2.7E-03	-5.7E-04	-9.5E-04	-2.6E-03	-3.4E-03	-4.0E-03	-7.2E-04	-4.4E-03	-5.2E-03	-2.7E-04	-2.7E-04
Ozone depletion (kg CFC-11 eq.)	-1.2E-09	-2.7E-09	-1.2E-09	-2.7E-09	-1.2E-09	-1.2E-09	-5.7E-09	-5.7E-09	-2.7E-09	-1.6E-08	-1.8E-09	-3.6E-09	-1.1E-08	-1.4E-08	-3.0E-09	-5.0E-09	-1.4E-08	-1.8E-08	-2.1E-08	-6.6E-09	-2.3E-08	-2.7E-08	-1.7E-09	-2.1E-09	-1.1E-08	-1.3E-08	-2.8E-09	-4.6E-09	-1.3E-08	-1.6E-08	-1.9E-08	-3.5E-09	-2.1E-08	-2.5E-08	-1.3E-09	-1.3E-09
Acidification potential (AP) (mol H+ eq)	-1.0E-02	-2.3E-02	-1.0E-02	-2.3E-02	-1.0E-02	-1.0E-02	-5.1E-02	-5.1E-02	-2.3E-02	-1.4E-01	-1.6E-02	-3.1E-02	-1.0E-01	-1.2E-01	-2.6E-02	-4.4E-02	-1.2E-01	-1.6E-01	-1.8E-01	-5.8E-02	-2.1E-01	-2.4E-01	-1.4E-02	-1.8E-02	-9.3E-02	-1.1E-01	-2.4E-02	-4.0E-02	-1.1E-01	-1.4E-01	-1.7E-01	-3.0E-02	-1.9E-01	-2.2E-01	-1.1E-02	-1.1E-02
Freshwater eutrophication (kg P eq.)	-8.3E-04	-1.9E-03	-8.3E-04	-1.9E-03	-8.3E-04	-8.3E-04	-4.2E-03	-4.2E-03	-1.9E-03	-1.1E-02	-1.3E-03	-2.6E-03	-8.2E-03	-1.0E-02	-2.1E-03	-3.6E-03	-9.7E-03	-1.3E-02	-1.5E-02	-4.7E-03	-1.7E-02	-2.0E-02	-1.2E-03	-1.5E-03	-7.5E-03	-9.2E-03	-2.0E-03	-3.3E-03	-8.9E-03	-1.2E-02	-1.4E-02	-2.5E-03	-1.5E-02	-1.8E-02	-9.2E-04	-9.2E-04
Marine aquatic eutrophication (kg N eq.)	-5.0E-04	-1.1E-03	-5.0E-04	-1.1E-03	-5.0E-04	-5.0E-04	-2.5E-03	-2.5E-03	-1.1E-03	-6.8E-03	-7.7E-04	-1.5E-03	-4.9E-03	-6.0E-03	-1.3E-03	-2.1E-03	-5.8E-03	-7.7E-03	-9.0E-03	-2.8E-03	-1.0E-02	-1.2E-02	-7.0E-04	-8.8E-04	-4.5E-03	-5.5E-03	-1.2E-03	-2.0E-03	-5.4E-03	-7.1E-03	-8.3E-03	-1.5E-03	-9.2E-03	-1.1E-02	-5.6E-04	-5.6E-04
Terrestrial eutrophication (mol N eq.)	-7.0E-03	-1.6E-02	-7.0E-03	-1.6E-02	-7.0E-03	-7.0E-03	-3.5E-02	-3.5E-02	-1.6E-02	-9.5E-02	-1.1E-02	-2.2E-02	-6.9E-02	-8.5E-02	-1.8E-02	-3.0E-02	-8.2E-02	-1.1E-01	-1.3E-01	-4.0E-02	-1.4E-01	-1.6E-01	-9.9E-03	-1.2E-02	-6.4E-02	-7.8E-02	-1.7E-02	-2.8E-02	-7.5E-02	-9.9E-02	-1.2E-01	-2.1E-02	-1.3E-01	-1.5E-01	-7.8E-03	-7.8E-03
Photochemical ozone creation (POCP) (kg NMVOC eq.)	-2.0E-03	-4.5E-03	-2.0E-03	-4.5E-03	-2.0E-03	-2.0E-03	-9.9E-03	-9.9E-03	-4.5E-03	-2.7E-02	-3.0E-03	-6.1E-03	-1.9E-02	-2.4E-02	-5.1E-03	-8.4E-03	-2.3E-02	-3.0E-02	-3.6E-02	-1.1E-02	-4.0E-02	-4.6E-02	-2.8E-03	-3.5E-03	-1.8E-02	-2.2E-02	-4.6E-03	-7.7E-03	-2.1E-02	-2.8E-02	-3.3E-02	-5.8E-03	-3.6E-02	-4.3E-02	-2.2E-03	-2.2E-03
ADP-minerals & metals (kg Sb eq.)	-1.3E-04	-3.0E-04	-1.3E-04	-3.0E-04	-1.3E-04	-1.3E-04	-6.6E-04	-6.6E-04	-3.0E-04	-1.8E-03	-2.0E-04	-4.0E-04	-1.3E-03	-1.6E-03	-3.4E-04	-5.6E-04	-1.5E-03	-2.0E-03	-2.4E-03	-7.4E-04	-2.7E-03	-3.1E-03	-1.9E-04	-2.3E-04	-1.2E-03	-1.5E-03	-3.1E-04	-5.2E-04	-1.4E-03	-1.9E-03	-2.2E-03	-3.9E-04	-2.4E-03	-2.8E-03	-1.5E-04	-1.5E-04
ADP-fossil (MJ)	-1.5E+00	-3.5E+00	-1.5E+00	-3.5E+00	-1.5E+00	-1.5E+00	-7.7E+00	-7.7E+00	-3.5E+00	-2.1E+01	-2.4E+00	-4.8E+00	-1.5E+01	-1.9E+01	-4.0E+00	-6.6E+00	-1.8E+01	-2.4E+01	-2.8E+01	-8.7E+00	-3.1E+01	-3.6E+01	-2.2E+00	-2.7E+00	-1.4E+01	-1.7E+01	-3.7E+00	-6.1E+00	-1.7E+01	-2.2E+01	-2.5E+01	-4.6E+00	-2.8E+01	-3.3E+01	-1.7E+00	-1.7E+00
Water Deprivation potential (WDP) (m3 e depr.)	-1.5E-01	-3.3E-01	-1.5E-01	-3.3E-01	-1.5E-01	-1.5E-01	-7.3E-01	-7.3E-01	-3.3E-01	-2.0E+00	-2.2E-01	-4.5E-01	-1.4E+00	-1.8E+00	-3.7E-01	-6.2E-01	-1.7E+00	-2.2E+00	-2.6E+00	-8.2E-01	-2.9E+00	-3.4E+00	-2.0E-01	-2.6E-01	-1.3E+00	-1.6E+00	-3.4E-01	-5.7E-01	-1.6E+00	-2.1E+00	-2.4E+00	-4.3E-01	-2.7E+00	-3.1E+00	-1.6E-01	-1.6E-01
Emission of fine particles (incidence of diseases)	-2.3E-08	-5.2E-08	-2.3E-08	-5.2E-08	-2.3E-08	-2.3E-08	-1.2E-07	-1.2E-07	-5.2E-08	-3.1E-07	-3.5E-08	-7.1E-08	-2.3E-07	-2.8E-07	-5.9E-08	-9.9E-08	-2.7E-07	-3.5E-07	-4.2E-07	-1.3E-07	-4.6E-07	-5.4E-07	-3.2E-08	-4.1E-08	-2.1E-07	-2.6E-07	-5.4E-08	-9.1E-08	-2.5E-07	-3.3E-07	-3.8E-07	-6.8E-08	-4.3E-07	-5.0E-07	-2.6E-08	-2.6E-08
Ionizing radiation, human health (kBq of U235 equiv.)	-1.3E-02	-3.1E-02	-1.3E-02	-3.1E-02	-1.3E-02	-1.3E-02	-6.6E-02	-6.6E-02	-3.1E-02	-1.8E-01	-2.1E-02	-4.1E-02	-1.3E-01	-1.6E-01	-3.5E-02	-5.7E-02	-1.5E-01	-2.0E-01	-2.4E-01	-7.5E-02	-2.6E-01	-3.1E-01	-1.9E-02	-2.4E-02	-1.2E-01	-1.5E-01	-3.2E-02	-5.3E-02	-1.4E-01	-1.9E-01	-2.2E-01	-4.0E-02	-2.4E-01	-2.8E-01	-1.5E-02	-1.5E-02
Ecotoxicity (fresh water) (CTUe)	-1.1E+01	-2.6E+01	-1.1E+01	-2.6E+01	-1.1E+01	-1.1E+01	-5.7E+01	-5.7E+01	-2.6E+01	-1.6E+02	-1.8E+01	-3.5E+01	-1.1E+02	-1.4E+02	-2.9E+01	-4.9E+01	-1.3E+02	-1.8E+02	-2.1E+02	-6.5E+01	-2.3E+02	-2.7E+02	-1.6E+01	-2.0E+01	-1.0E+02	-1.3E+02	-2.7E+01	-4.5E+01	-1.2E+02	-1.6E+02	-1.9E+02	-3.4E+01	-2.1E+02	-2.5E+02	-1.3E+01	-1.3E+01
Human toxicity, carcinogenic effects (CTUh)	-1.0E-09	-2.4E-09	-1.0E-09	-2.4E-09	-1.0E-09	-1.0E-09	-5.2E-09	-5.2E-09	-2.4E-09	-1.4E-08	-1.6E-09	-3.2E-09	-1.0E-08	-1.3E-08	-2.7E-09	-4.5E-09	-1.2E-08	-1.6E-08	-1.9E-08	-5.9E-09	-2.1E-08	-2.5E-08	-1.5E-09	-1.8E-09	-9.5E-09	-1.2E-08	-2.5E-09	-4.1E-09	-1.1E-08	-1.5E-08	-1.7E-08	-3.1E-09	-1.9E-08	-2.3E-08	-1.2E-09	-1.2E-09
Human toxicity, non-carcinogenic effects (CTUh)	-1.1E-07	-2.4E-07	-1.1E-07	-2.4E-07	-1.1E-07	-1.1E-07	-5.3E-07	-5.3E-07	-2.4E-07	-1.4E-06	-1.6E-07	-3.3E-07	-1.1E-06	-1.3E-06	-2.7E-07	-4.6E-07	-1.2E-06	-1.6E-06	-1.9E-06	-6.0E-07	-2.1E-06	-2.5E-06	-1.5E-07	-1.9E-07	-9.7E-07	-1.2E-06	-2.5E-07	-4.2E-07	-1.1E-06	-1.5E-06	-1.8E-06	-3.1E-07	-2.0E-06	-2.3E-06	-1.2E-07	-1.2E-07
Impacts related to land use/soil quality (-)	-3.3E+00	-7.6E+00	-3.3E+00	-7.6E+00	-3.3E+00	-3.3E+00	-1.7E+01	-1.7E+01	-7.6E+00	-4.5E+01	-5.1E+00	-1.0E+01	-3.3E+01	-4.0E+01	-8.6E+00	-1.4E+01	-3.9E+01	-5.1E+01	-5.9E+01	-1.9E+01	-6.7E+01	-7.8E+01	-4.7E+00	-5.9E+00	-3.0E+01	-3.7E+01	-7.9E+00	-1.3E+01	-3.6E+01	-4.7E+01	-5.5E+01	-9.9E+00	-6.1E+01	-7.1E+01	-3.7E+00	-3.7E+00
PERE (MJ)	-4.4E-01	-1.0E+00	-4.4E-01	-1.0E+00	-4.4E-01	-4.4E-01	-2.2E+00	-2.2E+00	-1.0E+00	-6.0E+00	-6.8E-01	-1.4E+00	-4.3E+00	-5.3E+00	-1.1E+00	-1.9E+00	-5.2E+00	-6.8E+00	-7.9E+00	-2.5E+00	-8.8E+00	-1.0E+01	-6.3E-01	-7.8E-01	-4.0E+00	-4.9E+00	-1.0E+00	-1.7E+00	-4.7E+00	-6.2E+00	-7.3E+00	-1.3E+00	-8.1E+00	-9.5E+00	-4.9E-01	-4.9E-01
PERM (MJ)	-1.4E-02	-4.2E-02	-1.4E-02	-4.2E-02	-1.4E-02	-1.4E-02	-6.6E-02	-6.6E-02	-4.2E-02	-2.0E-01	-2.0E-02	-3.7E-02	-9.4E-02	-1.1E-01	-3.7E-02	-5.5E-02	-1.4E-01	-1.8E-01	-1.8E-01	-7.4E-02	-2.2E-01	-2.2E-01	-2.0E-02	-2.5E-02	-9.4E-02	-1.1E-01	-3.7E-02	-5.5E-02	-1.4E-01	-1.8E-01	-1.8E-01	-4.9E-02	-2.2E-01	-2.2E-01	-2.1E-02	-2.1E-02
PERT (MJ)	-4.5E-01	-1.0E+00	-4.5E-01	-1.0E+00	-4.5E-01	-4.5E-01	-2.3E+00	-2.3E+00	-1.0E+00	-6.2E+00	-7.0E-01	-1.4E+00	-4.4E+00	-5.4E+00	-1.2E+00	-1.9E+00	-5.3E+00	-7.0E+00	-8.1E+00	-2.6E+00	-9.1E+00	-1.1E+01	-6.5E-01	-8.1E-01	-4.1E+00	-5.0E+00	-1.1E+00	-1.8E+00	-4.9E+00	-6.4E+00	-7.4E+00	-1.4E+00	-8.3E+00	-9.7E+00	-5.1E-01	-5.1E-01
PENRE (MJ)	-1.5E+00	-3.5E+00	-1.5E+00	-3.5E+00	-1.5E+00	-1.5E+00	-7.7E+00	-7.7E+00	-3.5E+00	-2.1E+01	-2.4E+00	-4.8E+00	-1.5E+01	-1.9E+01	-4.0E+00	-6.6E+00	-1.8E+01	-2.4E+01	-2.8E+01	-8.7E+00	-3.1E+01	-3.6E+01	-2.2E+00	-2.7E+00	-1.4E+01	-1.7E+01	-3.7E+00	-6.1E+00	-1.7E+01	-2.2E+01	-2.5E+01	-4.6E+00	-2.8E+01	-3.3E+01	-1.7E+00	-1.7E+00
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT (MJ)	-1.5E+00	-3.5E+00	-1.5E+00	-3.5E+00	-1.5E+00	-1.5E+00	-7.7E+00	-7.7E+00	-3.5E+00	-2.1E+01	-2.4E+00	-4.8E+00	-1.5E+01	-1.9E+01	-4.0E+00	-6.6E+00	-1.8E+01	-2.4E+01	-2.8E+01	-8.7E+00	-3.1E+01	-3.6E+01	-2.2E+00	-2.7E+00	-1.4E+01	-1.7E+01	-3.7E+00	-6.1E+00	-1.7E+01	-2.2E+01	-2.5E+01	-4.6E+00	-2.8E+01	-3.3E+01	-1.7E+00	-1.7E+00
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00		

APPENDIX A

Environmental Impact of Benefits & Loads stag

Impact Category \ Product ID	2CDL81014IR1003	2CDL81014IR1037	2CDL83014IR1037	2CDL81014IR1005	2CDL80214IR1055	2CDL80214IR1018	2CDL82014IR1040	2CDL80314IR1111	2CDL83314IR1011	2CDL80314IR1024	2CDL83314IR1024	2CDL83014IR1066	2CDL804142R1110	2CDL80414IR1055	2CDL840142R1012	2CDB927008R1018	2CDB927008R1156	2CDB927008R1056	2CDB927008R1656	2CDB937008R1018	2CDB937008R1157	2CDB937008R1057	2CDB937008R1657	2CDB94712IR1618	2CDB947008R1054	2CDB947018R1654	2CDB947008R1654	2CDB94712IR1654	2CDB947008R1156	2CDB947008R1056	2CDB947008R1656	2CDB947008R1009	2CDB92600IR1018	2CDB92600IR1156	2CDB92600IR1056	2CDB92600IR1656	
Climatic change - Total (kg CO2 eq.)	-2.3E-02	-4.0E-01	-4.0E-01	-4.5E-02	-2.5E+00	-7.7E-01	-8.6E-01	-3.7E+00	-3.7E+00	-7.2E-01	-7.2E-01	-2.2E+00	-5.1E+00	-5.5E+00	-5.6E-01	-3.7E-01	-1.2E+00	-1.2E+00	-1.5E+00	-5.0E-01	-1.8E+00	-1.8E+00	-2.1E+00	-7.2E-01	-2.2E+00	-2.6E+00	-2.6E+00	-2.6E+00	-2.3E+00	-2.3E+00	-2.7E+00	-2.2E-01	-3.4E-01	-1.1E+00	-1.1E+00	-1.3E+00	
Climatic change - Fossil (kg CO2 eq.)	-2.3E-02	-4.1E-01	-4.1E-01	-4.6E-02	-2.5E+00	-7.7E-01	-8.6E-01	-3.8E+00	-3.8E+00	-7.3E-01	-7.3E-01	-2.2E+00	-5.2E+00	-5.5E+00	-5.6E-01	-3.7E-01	-1.3E+00	-1.3E+00	-1.5E+00	-5.0E-01	-1.8E+00	-1.8E+00	-2.1E+00	-7.2E-01	-2.2E+00	-2.6E+00	-2.6E+00	-2.6E+00	-2.3E+00	-2.3E+00	-2.7E+00	-2.2E-01	-3.4E-01	-1.2E+00	-1.2E+00	-1.3E+00	
Climatic change - Biogenic (kg CO2 eq.)	4.0E-04	4.8E-03	4.8E-03	6.6E-04	2.9E-02	9.4E-03	1.0E-02	4.4E-02	4.4E-02	9.5E-03	9.5E-03	2.6E-02	5.6E-02	5.8E-02	6.3E-03	2.8E-03	8.8E-03	8.8E-03	8.6E-03	4.3E-03	1.4E-02	1.4E-02	1.3E-02	5.7E-03	1.7E-02	1.7E-02	1.7E-02	1.7E-02	1.8E-02	1.8E-02	3.0E-03	2.9E-03	8.8E-03	8.8E-03	8.7E-03		
Climatic change - Iuluc (kg CO2 eq.)	-4.6E-05	-8.1E-04	-8.1E-04	-9.1E-05	-5.0E-03	-1.5E-03	-1.7E-03	-7.5E-03	-7.5E-03	-1.4E-03	-1.4E-03	-4.3E-03	-1.0E-02	-1.1E-02	-1.1E-03	-7.4E-04	-2.5E-03	-2.5E-03	-2.9E-03	-9.9E-04	-3.6E-03	-3.6E-03	-4.1E-03	-1.4E-03	-4.4E-03	-5.1E-03	-5.1E-03	-5.1E-03	-4.5E-03	-4.5E-03	-5.3E-03	-4.5E-04	-6.8E-04	-2.3E-03	-2.3E-03	-2.7E-03	
Ozone depletion (kg CFC-11 eq.)	-2.3E-10	-4.0E-09	-4.0E-09	-4.5E-10	-2.4E-08	-7.4E-09	-8.3E-09	-3.6E-08	-3.6E-08	-6.9E-09	-6.9E-09	-2.1E-08	-4.9E-08	-5.3E-08	-5.4E-09	-3.6E-09	-1.2E-08	-1.2E-08	-1.4E-08	-4.8E-09	-1.7E-08	-1.7E-08	-2.0E-08	-6.9E-09	-2.1E-08	-2.4E-08	-2.4E-08	-2.4E-08	-2.2E-08	-2.2E-08	-2.5E-08	-2.2E-09	-3.3E-09	-1.1E-08	-1.1E-08	-1.3E-08	
Acidification potential (AP) (mol H+ eq)	-1.9E-03	-3.4E-02	-3.4E-02	-3.8E-03	-2.1E-01	-6.5E-02	-7.3E-02	-3.2E-01	-3.2E-01	-6.1E-02	-6.1E-02	-1.8E-01	-4.4E-01	-4.7E-01	-4.6E-02	-3.1E-02	-1.1E-01	-1.1E-01	-1.2E-01	-4.2E-02	-1.5E-01	-1.5E-01	-1.8E-01	-6.1E-02	-1.9E-01	-2.2E-01	-2.2E-01	-2.2E-01	-1.9E-01	-1.9E-01	-2.3E-01	-1.9E-02	-2.9E-02	-9.7E-02	-9.7E-02	-1.1E-01	
Freshwater eutrophication (kg P eq.)	-1.5E-04	-2.8E-03	-2.8E-03	-3.1E-04	-1.7E-02	-5.3E-03	-5.9E-03	-2.6E-02	-2.6E-02	-5.0E-03	-5.0E-03	-1.5E-02	-3.6E-02	-3.8E-02	-3.8E-03	-2.5E-03	-8.6E-03	-8.6E-03	-1.0E-02	-3.4E-03	-1.2E-02	-1.2E-02	-1.4E-02	-4.9E-03	-1.5E-02	-1.8E-02	-1.8E-02	-1.8E-02	-1.6E-02	-1.6E-02	-1.8E-02	-1.5E-03	-2.3E-03	-7.9E-03	-7.9E-03	-9.2E-03	
Marine aquatic eutrophication (kg N eq.)	-9.3E-05	-1.7E-03	-1.7E-03	-1.9E-04	-1.0E-02	-3.2E-03	-3.6E-03	-1.6E-02	-1.6E-02	-3.0E-03	-3.0E-03	-9.0E-03	-2.1E-02	-2.3E-02	-2.3E-03	-1.5E-03	-5.1E-03	-5.1E-03	-6.0E-03	-2.1E-03	-7.4E-03	-7.4E-03	-8.7E-03	-3.0E-03	-9.1E-03	-1.1E-02	-1.1E-02	-1.1E-02	-9.4E-03	-9.4E-03	-1.1E-02	-9.1E-04	-1.4E-03	-4.7E-03	-4.7E-03	-5.5E-03	
Terrestrial eutrophication (mol N eq.)	-1.3E-03	-2.3E-02	-2.3E-02	-2.6E-03	-1.4E-01	-4.5E-02	-5.0E-02	-2.2E-01	-2.2E-01	-4.2E-02	-4.2E-02	-1.3E-01	-3.0E-01	-3.2E-01	-3.2E-02	-2.1E-02	-7.2E-02	-7.2E-02	-8.5E-02	-2.9E-02	-1.0E-01	-1.0E-01	-1.2E-01	-4.2E-02	-1.3E-01	-1.5E-01	-1.5E-01	-1.5E-01	-1.3E-01	-1.3E-01	-1.5E-01	-1.3E-02	-2.0E-02	-6.6E-02	-6.6E-02	-7.8E-02	
Photochemical ozone creation (POCP) (kg NMVOC eq.)	-3.7E-04	-6.6E-03	-6.6E-03	-7.3E-04	-4.1E-02	-1.3E-02	-1.4E-02	-6.1E-02	-6.1E-02	-1.2E-02	-1.2E-02	-3.5E-02	-8.4E-02	-9.0E-02	-8.9E-03	-6.0E-03	-2.0E-02	-2.0E-02	-2.4E-02	-8.1E-03	-2.9E-02	-2.9E-02	-3.4E-02	-1.2E-02	-3.6E-02	-4.2E-02	-4.2E-02	-4.2E-02	-3.7E-02	-3.7E-02	-4.4E-02	-3.6E-03	-5.5E-03	-1.9E-02	-1.9E-02	-2.2E-02	
ADP-minerals & metals (kg Sb eq.)	-2.4E-05	-4.4E-04	-4.4E-04	-4.9E-05	-2.7E-03	-8.4E-04	-9.4E-04	-4.1E-03	-4.1E-03	-7.9E-04	-7.9E-04	-2.4E-03	-5.6E-03	-6.0E-03	-5.9E-04	-4.0E-04	-1.4E-03	-1.4E-03	-1.6E-03	-5.4E-04	-2.0E-03	-2.0E-03	-2.3E-03	-7.8E-04	-2.4E-03	-2.8E-03	-2.8E-03	-2.8E-03	-2.5E-03	-2.5E-03	-2.9E-03	-2.4E-04	-3.7E-04	-1.2E-03	-1.2E-03	-1.5E-03	
ADP-fossil (MJ)	-3.0E-01	-5.2E+00	-5.2E+00	-5.8E-01	-3.2E+01	-9.8E+00	-1.1E+01	-4.8E+01	-4.8E+01	-9.2E+00	-9.2E+00	-2.8E+01	-6.6E+01	-7.0E+01	-7.1E+00	-4.7E+00	-1.6E+01	-1.6E+01	-1.9E+01	-6.4E+00	-2.3E+01	-2.3E+01	-2.7E+01	-9.2E+00	-2.8E+01	-3.3E+01	-3.3E+01	-3.3E+01	-2.9E+01	-2.9E+01	-3.4E+01	-2.9E+00	-4.4E+00	-1.5E+01	-1.5E+01	-1.7E+01	
Water Deprivation potential (WDP) (m3 e depr.)	-2.7E-02	-4.8E-01	-4.8E-01	-5.4E-02	-3.0E+00	-9.3E-01	-1.0E+00	-4.5E+00	-4.5E+00	-8.7E-01	-8.7E-01	-2.6E+00	-6.2E+00	-6.6E+00	-6.6E-01	-4.4E-01	-1.5E+00	-1.5E+00	-1.8E+00	-6.0E-01	-2.2E+00	-2.2E+00	-2.5E+00	-8.6E-01	-2.6E+00	-3.1E+00	-3.1E+00	-3.1E+00	-2.7E+00	-2.7E+00	-3.1E+00	-2.4E-01	-4.1E-01	-1.4E+00	-1.4E+00	-1.6E+00	
Emission of fine particles (inhalence of diseases)	-4.3E-09	-7.7E-08	-7.7E-08	-8.5E-09	-4.8E-07	-1.5E-07	-1.6E-07	-7.2E-07	-7.2E-07	-1.4E-07	-1.4E-07	-4.1E-07	-9.9E-07	-1.1E-06	-1.0E-07	-7.0E-08	-2.4E-07	-2.4E-07	-2.8E-07	-9.5E-08	-3.4E-07	-3.4E-07	-4.0E-07	-1.4E-07	-4.9E-07	-4.9E-07	-4.9E-07	-4.4E-07	-4.4E-07	-5.1E-07	-4.2E-08	-6.5E-08	-1.4E-07	-2.2E-07	-2.2E-07	-2.5E-07	
Ionizing radiation, human health (kBq of U235 equiv.)	-2.6E-03	-4.5E-02	-4.5E-02	-5.1E-03	-2.7E-01	-8.4E-02	-9.4E-02	-4.1E-01	-4.1E-01	-7.9E-02	-7.9E-02	-2.4E-01	-5.6E-01	-6.0E-01	-6.1E-02	-4.1E-02	-1.4E-02	-1.4E-02	-1.6E-01	-5.5E-02	-2.0E-01	-2.0E-01	-2.3E-01	-7.9E-02	-2.4E-01	-2.8E-01	-2.8E-01	-2.8E-01	-2.5E-01	-2.5E-01	-2.9E-01	-2.5E-02	-3.8E-02	-1.3E-01	-1.3E-01	-1.5E-01	
Ecotoxicity (fresh water) (CTUe)	-2.1E+00	-3.8E+01	-3.8E+01	-4.2E+00	-2.4E+02	-7.3E+01	-8.2E+01	-3.6E+02	-3.6E+02	-6.9E+01	-6.9E+01	-2.1E+02	-4.9E+02	-5.2E+02	-5.2E+01	-3.5E+01	-1.2E+02	-1.2E+02	-1.4E+02	-4.7E+01	-1.7E+02	-1.7E+02	-2.0E+02	-6.8E+01	-2.1E+02	-2.4E+02	-2.4E+02	-2.4E+02	-2.2E+02	-2.2E+02	-2.5E+02	-2.1E+01	-3.2E+01	-1.1E+02	-1.1E+02	-1.3E+02	
Human toxicity, carcinogenic effects (CTUh)	-1.9E-10	-3.5E-09	-3.5E-09	-3.9E-10	-2.2E-08	-6.7E-09	-7.5E-09	-3.3E-08	-3.3E-08	-6.3E-09	-6.3E-09	-1.9E-08	-4.5E-08	-4.8E-08	-4.7E-09	-3.2E-09	-1.1E-08	-1.1E-08	-1.3E-08	-4.3E-09	-1.6E-08	-1.6E-08	-1.8E-08	-6.2E-09	-1.9E-08	-2.2E-08	-2.2E-08	-2.2E-08	-2.0E-08	-2.0E-08	-2.3E-08	-1.9E-09	-2.9E-09	-9.9E-09	-9.9E-09	-1.2E-08	
Human toxicity, non-carcinogenic effects (CTUh)	-2.0E-08	-3.5E-07	-3.5E-07	-3.9E-08	-2.2E-06	-6.8E-07	-7.6E-07	-3.3E-06	-3.3E-06	-6.4E-07	-6.4E-07	-1.9E-06	-4.6E-06	-4.9E-06	-4.8E-07	-3.3E-07	-1.1E-06	-1.1E-06	-1.3E-06	-4.4E-07	-1.6E-06	-1.6E-06	-1.8E-06	-6.3E-07	-1.9E-06	-2.3E-06	-2.3E-06	-2.3E-06	-2.0E-06	-2.0E-06	-2.4E-06	-1.9E-07	-3.0E-07	-1.0E-06	-1.0E-06	-1.2E-06	
Impacts related to land use/soil quality (-)	-6.3E-01	-1.1E+01	-1.1E+01	-1.3E+00	-6.9E+01	-2.1E+01	-2.4E+01	-1.0E+02	-1.0E+02	-2.0E+01	-2.0E+01	-6.0E+01	-1.4E+02	-1.5E+02	-1.5E+01	-1.0E+01	-3.4E+01	-3.4E+01	-4.0E+01	-1.4E+01	-4.9E+01	-4.9E+01	-5.7E+01	-2.0E+01	-6.0E+01	-7.0E+01	-7.0E+01	-7.0E+01	-7.0E+01	-6.3E+01	-6.3E+01	-7.3E+01	-6.1E+00	-9.3E+00	-3.1E+01	-3.1E+01	-3.7E+01
PERE (MJ)	-8.3E-02	-1.5E+00	-1.5E+00	-1.7E-01	-9.1E+00	-2.8E+00	-3.1E+00	-1.4E+01	-1.4E+01	-2.6E+00	-2.6E+00	-7.9E+00	-1.9E+01	-2.0E+01	-2.0E+00	-1.3E+00	-4.5E+00	-4.5E+00	-5.3E+00	-1.8E+00	-6.5E+00	-6.5E+00	-7.6E+00	-2.6E+00	-8.0E+00	-9.3E+00	-9.3E+00	-9.3E+00	-8.3E+00	-8.3E+00	-9.7E+00	-8.1E-01	-1.2E+00	-4.2E+00	-4.2E+00	-4.9E+00	
PERM (MJ)	-4.8E-03	-6.0E-02	-6.0E-02	-8.0E-03	-3.6E-01	-1.2E-01	-1.3E-01	-5.4E-01	-5.4E-01	-1.2E-01	-1.2E-01	-3.2E-01	-6.9E-01	-7.2E-01	-7.7E-02	-3.7E-02	-1.1E-01	-1.1E-01	-1.1E-01	-5.5E-02	-1.8E-01	-1.8E-01	-1.8E-01	-7.4E-02	-2.2E-01	-2.2E-01	-2.2E-01	-2.3E-01	-2.3E-01	-2.3E-01	-3.7E-02	-3.7E-02	-1.1E-01	-1.1E-01	-1.1E-01		
PERT (MJ)	-8.8E-02	-1.5E+00	-1.5E+00	-1.7E-01	-9.5E+00	-2.9E+00	-3.3E+00	-1.4E+01	-1.4E+01	-2.8E+00	-2.8E+00	-8.2E+00	-2.0E+01	-2.1E+01	-2.1E+00	-1.4E+00	-4.7E+00	-4.7E+00	-5.4E+00	-1.9E+00	-6.7E+00	-6.7E+00	-7.8E+00	-2.7E+00	-8.2E+00	-9.5E+00	-9.5E+00	-9.5E+00	-8.6E+00	-8.6E+00	-9.9E+00	-8.5E-01	-1.3E+00	-4.3E+00	-4.3E+00	-5.0E+00	
PENRE (MJ)	-3.0E-01	-5.2E+00	-5.2E+00	-5.8E-01	-3.2E+01	-9.8E+00	-1.1E+01	-4.8E+01	-4.8E+01	-9.2E+00	-9.2E+00	-2.8E+01	-6.6E+01	-7.0E+01	-7.1E+00	-4.7E+00	-1.6E+01	-1.6E+01	-1.9E+01	-6.4E+00	-2.3E+01	-2.3E+01	-2.7E+01	-9.2E+00	-2.8E+01	-3.3E+01	-3.3E+01	-3.3E+01	-2.9E+01	-2.9E+01	-3.4E+01	-2.9E+00	-4.4E+00	-1.5E+01	-1.5E+01	-1.7E+01	
PENRM (MJ)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	
PENRT (MJ)	-3.0E-01	-5.2E+00	-5.2E+00	-5.8E-01	-3.2E+01	-9.8E+00	-1.1E+01	-4.8E+01	-4.8E+01	-9.2E+00	-9.2E+00	-2.8E+01	-6.6E+01	-7.0E+01	-7.1E+00	-4.7E+00	-1.6E+01	-1.6E+01	-1.9E+01	-6.4E+00	-2.3E+01	-2.3E+01	-2.7E+01	-9.2E+00	-2.8E+01	-3.3E+01	-3.3E+01	-3.3E+01	-2.9E+01	-2.9E+01	-3.4E+01	-2.9E+00	-4.4E+00	-1.5E+01	-1.5E+01	-1.7E+01	
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	

Environmental Impact of Benefits & Loads stage

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APPENDIX A		Total Environmental Impact																																			
Impact Category \ Product ID		2CSL01012R1012	2CSL01012R1012	2CSL01001R1012	2CSL01001R1012	2CSL01000R1012	2CSL01010R1012	2CSL01000R1056	2CSL01010R1056	2CSL01000R1012	2CSL01000R1057	2CDL825002R1010	2CDL825002R1018	2CDL825002R1646	2CDL825002R1656	2CDL835002R1012	2CDL835002R1018	2CDL835002R1044	2CDL835002R1057	2CDL835002R1657	2CDL845002R1018	2CDL845002R1054	2CDL845002R1654	2CDL824002R1010	2CDL824002R1012	2CDL824002R1646	2CDL824002R1656	2CDL834002R1012	2CDL834002R1018	2CDL834002R1044	2CDL834002R1057	2CDL834002R1657	2CDL844002R1012	2CDL844002R1054	2CDL844002R1654	2CDL801145R1013	2CDL801141R1013
Climatic change - Total (kg CO2 eq.)		3,6E+00	8,8E+00	3,6E+00	8,8E+00	3,6E+00	3,6E+00	1,8E+01	1,8E+01	8,8E+00	5,2E+01	5,3E+00	1,1E+01	2,0E+01	2,4E+01	8,9E+00	1,5E+01	4,0E+01	5,3E+01	3,6E+01	1,9E+01	6,6E+01	4,5E+01	5,7E+00	7,1E+00	1,8E+01	2,2E+01	9,6E+00	1,6E+01	4,3E+01	5,7E+01	3,2E+01	1,1E+01	7,1E+01	4,0E+01	4,0E+00	4,0E+00
Climatic change - Fossil (kg CO2 eq.)		3,5E+00	8,4E+00	3,5E+00	8,4E+00	3,5E+00	3,5E+00	1,7E+01	1,7E+01	8,4E+00	5,0E+01	5,1E+00	1,0E+01	1,9E+01	2,3E+01	8,6E+00	1,4E+01	3,9E+01	5,1E+01	3,5E+01	1,8E+01	6,3E+01	4,3E+01	5,5E+00	6,8E+00	1,7E+01	2,1E+01	9,2E+00	1,5E+01	4,2E+01	5,5E+01	3,1E+01	1,1E+01	6,8E+01	3,9E+01	3,8E+00	3,8E+00
Climatic change - Biogenic (kg CO2 eq.)		1,4E-01	3,3E-01	1,4E-01	3,3E-01	1,4E-01	1,4E-01	6,8E-01	6,8E-01	3,3E-01	2,0E+00	2,0E-01	3,9E-01	6,6E-01	8,1E-01	3,3E-01	5,5E-01	1,5E+00	2,0E+00	1,2E+00	6,9E-01	2,5E+00	1,5E+00	2,2E-01	2,7E-01	5,9E-01	7,2E-01	3,6E-01	6,1E-01	1,7E+00	2,2E+00	1,1E+00	4,3E-01	2,7E+00	1,3E+00	1,5E-01	1,5E-01
Climatic change - luluc (kg CO2 eq.)		6,9E-03	1,7E-02	6,9E-03	1,7E-02	6,9E-03	6,9E-03	3,4E-02	3,4E-02	1,7E-02	1,0E-01	1,0E-02	2,0E-02	3,7E-02	4,6E-02	1,7E-02	2,8E-02	7,7E-02	1,0E-01	6,8E-02	3,5E-02	1,3E-01	8,5E-02	1,1E-02	1,4E-02	3,3E-02	4,1E-02	1,8E-02	3,0E-02	8,3E-02	1,1E-01	6,1E-02	2,2E-02	1,4E-01	7,6E-02	7,6E-03	7,6E-03
Ozone depletion (kg CFC-11 eq.)		7,6E-08	1,8E-07	7,6E-08	1,8E-07	7,6E-08	7,6E-08	3,8E-07	3,8E-07	1,8E-07	1,1E-06	1,1E-07	2,2E-07	3,8E-07	4,7E-07	1,8E-07	3,0E-07	8,3E-07	1,1E-06	7,0E-07	3,8E-07	1,4E-06	8,7E-07	1,2E-07	1,5E-07	3,4E-07	4,2E-07	2,0E-07	3,3E-07	9,0E-07	1,2E-06	6,3E-07	2,4E-07	1,5E-06	7,8E-07	8,3E-08	8,3E-08
Acidification potential (AP) (mol H+ eq)		4,1E-02	9,5E-02	4,1E-02	9,5E-02	4,1E-02	4,1E-02	2,0E-01	2,0E-01	9,5E-02	5,7E-01	6,2E-02	1,2E-01	3,5E-01	4,2E-01	1,0E-01	1,7E-01	4,7E-01	6,2E-01	6,3E-01	2,2E-01	8,0E-01	8,2E-01	6,0E-02	7,5E-02	3,2E-01	3,9E-01	1,0E-01	1,7E-01	4,6E-01	6,0E-01	5,8E-01	1,2E-01	7,7E-01	7,5E-01	4,5E-02	4,5E-02
Freshwater eutrophication (kg P eq.)		4,7E-03	1,1E-02	4,7E-03	1,1E-02	4,7E-03	4,7E-03	2,3E-02	2,3E-02	1,1E-02	6,5E-02	6,9E-03	1,4E-02	3,4E-02	4,2E-02	1,2E-02	1,9E-02	5,3E-02	7,0E-02	6,3E-02	2,5E-02	8,9E-02	8,0E-02	7,0E-03	8,7E-03	3,1E-02	3,8E-02	1,2E-02	1,9E-02	5,3E-02	7,0E-02	5,7E-02	1,4E-02	8,9E-02	7,3E-02	5,1E-03	5,1E-03
Marine aquatic eutrophication (kg N eq.)		3,9E-03	9,2E-03	3,9E-03	9,2E-03	3,9E-03	3,9E-03	1,9E-02	1,9E-02	9,2E-03	5,5E-02	5,8E-03	1,2E-02	2,6E-02	3,2E-02	9,7E-03	1,6E-02	4,4E-02	5,8E-02	4,8E-02	2,0E-02	7,3E-02	6,1E-02	5,9E-03	7,4E-03	2,4E-02	2,9E-02	9,9E-03	1,7E-02	4,5E-02	5,9E-02	4,4E-02	1,2E-02	7,5E-02	5,5E-02	4,3E-03	4,3E-03
Terrestrial eutrophication (mol N eq.)		4,2E-02	9,9E-02	4,2E-02	9,9E-02	4,2E-02	4,2E-02	2,1E-01	2,1E-01	9,9E-02	5,9E-01	6,3E-02	1,2E-01	3,1E-01	3,7E-01	1,1E-01	1,7E-01	4,8E-01	6,3E-01	5,6E-01	2,2E-01	8,0E-01	7,1E-01	6,3E-02	7,9E-02	2,8E-01	3,4E-01	1,1E-01	1,8E-01	4,8E-01	6,3E-01	5,1E-01	1,3E-01	8,0E-01	6,5E-01	4,6E-02	4,6E-02
Photochemical ozone creation (POCP) (kg NMVOC eq.)		1,3E-02	3,0E-02	1,3E-02	3,0E-02	1,3E-02	1,3E-02	6,3E-02	6,3E-02	3,0E-02	1,8E-01	1,9E-02	3,8E-02	9,1E-02	1,1E-01	3,2E-02	5,3E-02	1,4E-01	1,9E-01	1,7E-01	6,8E-02	2,4E-01	2,1E-01	1,9E-02	2,4E-02	8,2E-02	1,0E-01	3,2E-02	5,4E-02	1,5E-01	1,9E-01	1,5E-01	3,9E-02	2,4E-01	1,9E-01	1,4E-02	1,4E-02
ADP-minerals & metals (kg Sb eq.)		4,3E-04	9,8E-04	4,3E-04	9,8E-04	4,3E-04	4,3E-04	2,1E-03	2,1E-03	9,8E-04	5,9E-03	6,5E-04	1,3E-03	4,0E-03	4,9E-03	1,1E-03	1,8E-03	5,0E-03	6,6E-03	7,2E-03	2,4E-03	8,5E-03	9,4E-03	6,1E-04	7,7E-04	3,6E-03	4,5E-03	1,0E-03	1,7E-03	4,7E-03	6,2E-03	6,6E-03	1,3E-03	8,0E-03	8,6E-03	4,7E-04	4,7E-04
ADP-fossil (MJ)		9,4E+01	2,3E+02	9,4E+01	2,3E+02	9,4E+01	9,4E+01	4,7E+02	4,7E+02	2,3E+02	1,4E+03	1,4E+02	2,7E+02	4,8E+02	5,9E+02	2,3E+02	3,8E+02	1,0E+03	1,4E+03	8,9E+02	4,8E+02	1,7E+03	1,1E+03	1,5E+02	1,9E+02	4,3E+02	5,3E+02	2,5E+02	4,2E+02	1,1E+03	1,5E+03	7,9E+02	3,0E+02	1,9E+03	9,9E+02	1,0E+02	1,0E+02
Water Deprivation potential (WDP) (m3 e depr.)		1,4E+00	3,1E+00	1,4E+00	3,1E+00	1,4E+00	1,4E+00	7,1E+00	7,1E+00	3,1E+00	1,9E+01	1,9E+00	3,9E+00	8,3E+00	1,0E+01	3,3E+00	5,5E+00	1,5E+01	2,0E+01	1,5E+01	7,0E+00	2,5E+01	2,0E+01	2,0E+00	2,5E+00	7,5E+00	9,2E+00	3,4E+00	5,7E+00	1,6E+01	2,1E+01	1,4E+01	4,1E+00	2,6E+01	1,8E+01	1,6E+00	1,6E+00
Emission of fine particles (incidence of diseases)		1,3E-07	3,1E-07	1,3E-07	3,1E-07	1,3E-07	1,3E-07	6,5E-07	6,5E-07	3,1E-07	1,8E-06	2,0E-07	3,9E-07	9,8E-07	1,2E-06	3,3E-07	5,5E-07	1,5E-06	2,0E-06	1,8E-06	7,0E-07	2,5E-06	2,3E-06	2,0E-07	2,5E-07	8,9E-07	1,1E-06	3,3E-07	5,5E-07	1,5E-06	2,0E-06	1,6E-06	4,0E-07	2,5E-06	2,1E-06	1,5E-07	1,5E-07
Ionizing radiation, human health (kBq of U235 equiv.)		2,9E+00	7,1E+00	2,9E+00	7,1E+00	2,9E+00	2,9E+00	1,4E+01	1,4E+01	7,1E+00	4,3E+01	4,2E+00	8,4E+00	1,4E+01	1,8E+01	7,1E+00	1,2E+01	3,2E+01	4,3E+01	2,6E+01	1,5E+01	5,3E+01	3,3E+01	4,6E+00	5,8E+00	1,3E+01	1,6E+01	7,8E+00	1,3E+01	3,5E+01	4,7E+01	2,4E+01	9,2E+00	5,8E+01	2,9E+01	3,2E+00	3,2E+00
Ecotoxicity (fresh water) (CTUe)		4,3E+01	9,7E+01	4,3E+01	9,7E+01	4,3E+01	4,3E+01	2,1E+02	2,1E+02	9,7E+01	5,8E+02	6,4E+01	1,3E+02	3,7E+02	4,5E+02	1,1E+02	1,8E+02	4,9E+02	6,4E+02	6,7E+02	2,3E+02	8,3E+02	8,7E+02	6,1E+01	7,6E+01	3,3E+02	4,1E+02	1,0E+02	1,7E+02	4,7E+02	6,1E+02	6,1E+02	1,3E+02	7,9E+02	7,9E+02	4,8E+01	4,8E+01
Human toxicity, carcinogenic effects (CTUh)		4,0E-09	9,2E-09	4,0E-09	9,2E-09	4,0E-09	4,0E-09	2,0E-08	2,0E-08	9,2E-09	5,5E-08	6,0E-09	1,2E-08	3,5E-08	4,3E-08	1,0E-08	1,7E-08	4,6E-08	6,1E-08	6,3E-08	2,2E-08	7,8E-08	8,2E-08	5,8E-09	7,2E-09	3,2E-08	3,9E-08	9,7E-09	1,6E-08	4,4E-08	5,8E-08	5,8E-08	1,2E-08	7,5E-08	7,5E-08	4,4E-09	4,4E-09
Human toxicity, non-carcinogenic effects (CTUh)		3,6E-07	8,2E-07	3,6E-07	8,2E-07	3,6E-07	3,6E-07	1,8E-06	1,8E-06	8,2E-07	4,9E-06	5,5E-07	1,1E-06	3,3E-06	4,0E-06	9,2E-07	1,5E-06	4,2E-06	5,5E-06	6,0E-06	2,0E-06	7,1E-06	7,8E-06	5,2E-07	6,5E-07	3,0E-06	3,7E-06	8,7E-07	1,4E-06	3,9E-06	5,2E-06	5,5E-06	1,1E-06	6,7E-06	7,2E-06	4,0E-07	4,0E-07
Impacts related to land use/soil quality (-)		2,7E+01	6,5E+01	2,7E+01	6,5E+01	2,7E+01	2,7E+01	1,4E+02	1,4E+02	6,5E+01	3,9E+02	4,0E+01	8,1E+01	1,8E+02	2,2E+02	6,8E+01	1,1E+02	3,1E+02	4,1E+02	3,3E+02	1,4E+02	5,1E+02	4,2E+02	4,2E+01	5,2E+01	1,6E+02	2,0E+02	7,0E+01	1,2E+02	3,2E+02	4,2E+02	3,0E+02	8,5E+01	5,3E+02	3,8E+02	3,0E+01	3,0E+01
PERE (MJ)		2,0E+01	4,9E+01	2,0E+01	4,9E+01	2,0E+01	2,0E+01	1,0E+02	1,0E+02	4,9E+01	2,9E+02	3,0E+01	5,9E+01	1,1E+02	1,3E+02	5,0E+01	8,3E+01	2,3E+02	3,0E+02	1,9E+02	1,0E+02	3,7E+02	2,4E+02	3,2E+01	4,0E+01	9,4E+01	1,2E+02	5,4E+01	9,0E+01	2,4E+02	3,2E+02	1,7E+02	6,4E+01	4,0E+02	2,1E+02	2,2E+01	2,2E+01
PERM (MJ)		4,1E-02	1,1E-01	4,1E-02	1,1E-01	4,1E-02	4,1E-02	2,0E-01	2,0E-01	1,1E-01	5,8E-01	6,4E-02	1,2E-01	3,4E-01	4,2E-01	1,1E-01	1,7E-01	4,4E-01	5,8E-01	6,2E-01	2,3E-01	7,3E-01	8,0E-01	6,1E-02	7,5E-02	3,3E-01	4,0E-0										

APPENDIX A

Total Environmental Impact

Impact Category \ Product ID	2CDL810141R1003	2CDL810141R1037	2CDL830141R1037	2CDL810141R1005	2CDL802141R1055	2CDL802141R1018	2CDL820141R1040	2CDL803141R1111	2CDL833141R1011	2CDL803141R1024	2CDL833141R1024	2CDL830141R1066	2CDL804142R1110	2CDL804141R1055	2CDL840142R1012	2CDB927008R1018	2CDB927008R1156	2CDB927008R1056	2CDB927008R1656	2CDB937008R1018	2CDB937008R1157	2CDB937008R1057	2CDB937008R1657	2CDB9947121R1618	2CDB947008R1054	2CDB947018R1654	2CDB947008R1654	2CDB947121R1654	2CDB947008R1156	2CDB947008R1056	2CDB947008R1656	2CDB947008R1009	2CDB926001R1018	2CDB926001R1156	2CDB926001R1056	2CDB926001R1656
Climatic change - Total (kg CO2 eq.)	6.9E-01	1.2E+01	1.2E+01	1.3E+00	7.2E+01	2.2E+01	2.5E+01	1.1E+02	1.1E+02	2.1E+01	2.1E+01	6.2E+01	1.1E+02	1.1E+02	8.9E+00	1.0E+01	3.3E+01	3.3E+01	2.0E+01	1.4E+01	5.0E+01	5.0E+01	2.9E+01	1.0E+01	6.1E+01	3.6E+01	3.6E+01	3.6E+01	6.4E+01	6.4E+01	9.6E+00	6.2E+00	1.0E+01	3.5E+01	3.5E+01	1.9E+01
Climatic change - Fossil (kg CO2 eq.)	6.6E-01	1.1E+01	1.1E+01	1.3E+00	6.9E+01	2.1E+01	2.4E+01	1.0E+02	1.0E+02	2.0E+01	2.0E+01	5.9E+01	1.0E+02	1.1E+02	8.6E+00	9.6E+00	3.2E+01	3.2E+01	1.9E+01	1.3E+01	4.8E+01	4.8E+01	2.8E+01	9.8E+00	5.9E+01	3.5E+01	3.5E+01	3.5E+01	6.1E+01	6.1E+01	9.5E+00	6.0E+00	1.0E+01	3.4E+01	3.4E+01	1.8E+01
Climatic change - Biogenic (kg CO2 eq.)	2.7E-02	4.4E-01	4.4E-01	5.1E-02	2.7E+00	8.3E-01	9.3E-01	4.0E+00	4.0E+00	7.7E-01	7.7E-01	2.3E+00	3.8E+00	4.0E+00	3.0E-01	3.7E-01	1.2E+00	1.2E+00	6.3E-01	5.2E-01	1.9E+00	1.9E+00	9.5E-01	3.3E-01	2.3E+00	1.2E+00	1.2E+00	1.2E+00	2.4E+00	2.4E+00	1.6E-02	2.3E-01	3.9E-01	1.3E+00	1.3E+00	6.1E-01
Climatic change - luluc (kg CO2 eq.)	1.3E-03	2.3E-02	2.3E-02	2.6E-03	1.4E-01	4.3E-02	4.8E-02	2.1E-01	2.1E-01	4.0E-02	4.0E-02	1.2E-01	2.1E-01	2.1E-01	1.7E-02	1.9E-02	6.4E-02	6.4E-02	3.7E-02	2.7E-02	9.6E-02	9.6E-02	5.6E-02	1.9E-02	1.2E-01	6.9E-02	6.9E-02	6.9E-02	1.2E-01	1.2E-01	1.7E-02	1.2E-02	2.0E-02	6.7E-02	6.7E-02	3.6E-02
Ozone depletion (kg CFC-11 eq.)	1.4E-08	2.5E-07	2.5E-07	2.8E-08	1.5E-06	4.7E-07	5.2E-07	2.2E-06	2.2E-06	4.3E-07	4.3E-07	1.3E-06	2.2E-06	2.3E-06	1.8E-07	2.1E-07	7.0E-07	7.0E-07	3.9E-07	2.9E-07	1.0E-06	1.0E-06	5.8E-07	2.0E-07	1.3E-06	7.1E-07	7.1E-07	7.1E-07	1.3E-06	1.3E-06	1.2E-07	1.3E-07	2.2E-07	7.4E-07	7.4E-07	3.7E-07
Acidification potential (AP) (mol H+ eq.)	7.6E-03	1.4E-01	1.4E-01	1.5E-02	8.4E-01	2.6E-01	2.9E-01	1.3E+00	1.3E+00	2.4E-01	2.4E-01	7.3E-01	1.6E+00	1.7E+00	1.5E-01	1.2E-01	4.1E-01	4.1E-01	4.1E-01	1.7E-01	6.0E-01	6.0E-01	5.9E-01	2.0E-01	7.3E-01	7.2E-01	7.2E-01	7.2E-01	7.6E-01	7.6E-01	6.5E-01	7.3E-02	1.2E-01	3.9E-01	3.9E-01	3.8E-01
Freshwater eutrophication (kg P eq.)	8.9E-04	1.5E-02	1.5E-02	1.7E-03	9.4E-02	2.9E-02	3.2E-02	1.4E-01	1.4E-01	2.7E-02	2.7E-02	8.1E-02	1.6E-01	1.7E-01	1.5E-02	1.3E-02	4.5E-02	4.5E-02	3.9E-02	1.8E-02	6.6E-02	6.6E-02	5.6E-02	1.9E-02	8.2E-02	6.9E-02	6.9E-02	6.9E-02	8.5E-02	8.5E-02	5.1E-02	8.2E-03	1.3E-02	4.5E-02	4.5E-02	3.6E-02
Marine aquatic eutrophication (kg N eq.)	7.3E-04	1.3E-02	1.3E-02	1.4E-03	7.8E-02	2.4E-02	2.7E-02	1.2E-01	1.2E-01	2.2E-02	2.2E-02	6.7E-02	1.3E-01	1.4E-01	1.2E-02	1.1E-02	3.7E-02	3.7E-02	2.9E-02	1.5E-02	5.5E-02	5.5E-02	4.2E-02	1.5E-02	6.7E-02	5.2E-02	5.2E-02	5.2E-02	7.0E-02	7.0E-02	3.3E-02	6.8E-03	1.1E-02	3.7E-02	3.7E-02	2.7E-02
Terrestrial eutrophication (mol N eq.)	7.8E-03	1.4E-01	1.4E-01	1.5E-02	8.4E-01	2.6E-01	2.9E-01	1.3E+00	1.3E+00	2.4E-01	2.4E-01	7.3E-01	1.5E+00	1.5E+00	1.3E-01	1.2E-01	4.1E-01	4.1E-01	3.4E-01	1.7E-01	6.0E-01	6.0E-01	5.0E-01	1.7E-01	7.3E-01	6.1E-01	6.1E-01	6.1E-01	7.6E-01	7.6E-01	4.5E-01	7.3E-02	1.2E-01	4.0E-01	4.0E-01	3.2E-01
Photochemical ozone creation (POCP) (kg NMVOC eq.)	3.4E-03	4.2E-02	4.2E-02	4.7E-03	2.6E-01	8.0E-02	8.9E-02	3.8E-01	3.8E-01	7.4E-02	7.4E-02	2.2E-01	4.4E-01	4.7E-01	4.0E-02	3.7E-02	1.2E-01	1.2E-01	1.0E-01	5.1E-02	1.8E-01	1.8E-01	1.5E-01	5.1E-02	2.2E-01	1.8E-01	1.8E-01	1.8E-01	2.3E-01	2.3E-01	1.3E-01	2.2E-02	3.6E-02	1.2E-01	1.2E-01	9.5E-02
ADP-minerals & metals (kg Sb eq.)	7.9E-05	1.4E-03	1.4E-03	1.6E-04	8.8E-03	2.7E-03	3.0E-03	1.3E-02	1.3E-02	2.5E-03	2.5E-03	7.6E-03	1.8E-02	1.9E-02	1.7E-03	1.3E-03	4.4E-03	4.4E-03	4.8E-03	1.7E-03	6.3E-03	6.3E-03	6.9E-03	2.4E-03	7.7E-03	8.4E-03	8.4E-03	8.4E-03	8.0E-03	8.0E-03	8.3E-03	7.7E-04	1.2E-03	4.1E-03	4.1E-03	4.4E-03
ADP-fossil (MJ)	1.8E+01	3.1E+02	3.1E+02	3.5E+01	1.9E+03	5.8E+02	6.5E+02	2.8E+03	2.8E+03	5.4E+02	5.4E+02	1.6E+03	2.7E+03	2.8E+03	2.2E+02	2.6E+02	8.7E+02	8.7E+02	4.8E+02	3.6E+02	1.3E+03	1.3E+03	7.1E+02	2.5E+02	1.6E+03	8.7E+02	8.7E+02	8.7E+02	1.7E+03	1.7E+03	1.3E+02	1.6E+02	2.7E+02	9.2E+02	9.2E+02	4.6E+02
Water Deprivation potential (WDP) (m3 e depr.)	2.6E-01	4.7E+00	4.7E+00	5.2E-01	2.9E+01	8.8E+00	9.9E+00	4.3E+01	4.3E+01	8.2E+00	8.2E+00	2.5E+01	4.6E+01	4.9E+01	4.0E+00	4.0E+00	1.4E+01	1.4E+01	9.8E+00	5.6E+00	2.0E+01	2.0E+01	1.4E+01	4.9E+00	2.5E+01	1.8E+01	1.8E+01	1.8E+01	2.6E+01	2.6E+01	9.5E+00	2.5E+00	4.1E+00	1.4E+01	1.4E+01	9.2E+00
Emission of fine particles (incidence of diseases)	2.5E-08	4.3E-07	4.3E-07	4.9E-08	2.7E-06	8.2E-07	9.2E-07	4.0E-06	4.0E-06	7.7E-07	7.7E-07	2.3E-06	4.7E-06	4.9E-06	4.3E-07	3.8E-07	1.3E-06	1.3E-06	1.1E-06	5.2E-07	1.9E-06	1.9E-06	1.6E-06	5.6E-07	2.3E-06	2.0E-06	2.0E-06	2.0E-06	2.4E-06	2.4E-06	1.5E-06	2.3E-07	3.8E-07	1.3E-06	1.3E-06	1.0E-06
Ionizing radiation, human health (kBq of U235 equiv.)	5.3E-01	9.5E+00	9.5E+00	1.1E+00	5.8E+01	1.8E+01	2.0E+01	8.6E-01	8.6E-01	1.7E+01	1.7E+01	5.0E+01	8.3E+01	8.6E+01	6.4E+00	7.9E+00	2.7E+01	2.7E+01	1.4E+01	1.1E+01	4.0E+01	4.0E+01	2.1E+01	7.1E+00	4.9E+01	2.5E+01	2.5E+01	2.5E+01	5.1E+01	5.1E+01	1.1E+00	5.0E+00	8.4E+00	2.8E+01	2.8E+01	1.3E+01
Ecotoxicity (fresh water) (CTUe)	8.1E+00	1.4E+02	1.4E+02	1.6E+01	8.8E+02	2.7E+02	3.0E+02	1.3E+03	1.3E+03	2.5E+02	2.5E+02	7.6E+02	1.7E+03	1.8E+03	1.7E+02	1.3E+02	4.3E+02	4.3E+02	4.4E+02	1.7E+02	6.3E+02	6.3E+02	6.4E+02	2.2E+02	7.7E+02	7.8E+02	7.8E+02	8.0E+02	8.0E+02	7.3E+02	7.8E+01	1.2E+02	4.1E+02	4.1E+02	4.1E+02	
Human toxicity, carcinogenic effects (CTUh)	7.5E-10	1.3E-08	1.3E-08	1.5E-09	8.2E-08	2.5E-08	2.8E-08	1.2E-07	1.2E-07	2.4E-08	2.4E-08	7.1E-08	1.6E-07	1.7E-07	1.5E-08	1.2E-08	4.0E-08	4.0E-08	4.1E-08	1.6E-08	5.8E-08	5.8E-08	6.0E-08	2.1E-08	7.2E-08	7.3E-08	7.3E-08	7.5E-08	7.5E-08	6.8E-08	7.1E-09	1.1E-08	3.8E-08	3.8E-08	3.8E-08	
Human toxicity, non-carcinogenic effects (CTUh)	6.6E-08	1.2E-06	1.2E-06	1.3E-07	7.4E-06	2.3E-06	2.5E-06	1.1E-05	1.1E-05	2.1E-06	2.1E-06	6.4E-06	1.5E-05	1.5E-05	1.4E-06	1.1E-06	3.6E-06	3.6E-06	4.0E-06	1.5E-06	5.3E-06	5.3E-06	5.7E-06	2.0E-06	6.5E-06	7.0E-06	7.0E-06	7.0E-06	6.7E-06	6.7E-06	6.8E-06	6.4E-07	1.0E-06	3.4E-06	3.4E-06	3.6E-06
Impacts related to land use/soil quality (-)	5.1E+00	9.0E+01	9.0E+01	1.0E+01	5.5E+02	1.7E+02	1.9E+02	8.2E+02	8.2E+02	1.6E+02	1.6E+02	4.8E+02	9.2E+02	9.6E+02	8.1E+01	7.8E+01	2.6E+02	2.6E+02	2.0E+02	1.1E+02	3.9E+02	3.9E+02	2.9E+02	1.0E+02	4.8E+02	3.6E+02	3.6E+02	3.6E+02	4.9E+02	4.9E+02	2.2E+02	4.8E+01	7.8E+01	2.6E+02	2.6E+02	1.9E+02
PERE (MJ)	3.8E+00	6.6E+01	6.6E+01	7.4E+00	4.0E+02	1.2E+02	1.4E+02	6.0E+02	6.0E+02	1.2E+02	1.2E+02	3.5E+02	5.9E+02	6.2E+02	4.7E+01	5.6E+01	1.9E+02	1.9E+02	1.0E+02	7.8E+01	2.8E+02	2.8E+02	1.5E+02	5.3E+01	3.5E+02	1.9E+02	1.9E+02	1.9E+02	3.6E+02	3.6E+02	3.0E+01	3.5E+01	5.9E+01	2.0E+02	2.0E+02	9.9E+01
PERM (MJ)	1.1E-02	1.6E-01	1.6E-01	2.0E-02	9.2E-01	2.9E-01	3.2E-01	1.4E+00	1.4E+00	2.8E-01	2.8E-01	8.0E-01	1.8E+00	1.9E+00	2.1E-01	1.2E-01	3.9E-01	3.9E-01	4.2E-01	1.7E-01	5.7E-01	5.7E-01	6.1E-01	2.3E-01	7.0E-01	7.6E-01	7.6E-01	7.6E-01	7.3E-01	7.3E-01	7.8E-01	9.4E-02	1.2E-01	3.7E-01	3.7E-01	4.0E-01
PERT (MJ)	3.8E+00	6.6E+01	6.6E+01	7.4E+00	4.0E+02	1.3E+02	1.4E+02	6.0E+02	6.0E+02	1.2E+02	1.2E+02	3.5E+02	5.9E+02	6.2E+02	4.7E+01	5.6E+01	1.9E+02	1.9E+02	1.0E+02	7.8E+01	2.8E+02	2.8E+02	1.6E+02	5.4E+01	3.5E+02	1.9E+02	1.9E+02	1.9E+02	3.6E+02	3.6E+02	3.1E+01	3.5E+01	5.9E+01	2.0E+02	2.0E+02	9.9E+01
PENRE (MJ)	1.7E+01	3.1E+02	3.1E+02	3.4E+01	1.9E+03	5.8E+02	6.5E+02	2.8E+03	2.8E+03	5.4E+02	5.4E+02	1.6E+03	2.7E+03	2.8E+03	2.2E+02	2.6E+02	8.7E+02	8.7E+02	4.7E+02	3.6E+02	1.3E+03	1.3E+03	7.1E+02	2.4E+02	1.6E+03	8.7E+02	8.7E+02	8.7E+02	1.7E+03	1.7E+03	1.2E+02	1.6E+02	2.7E+02	9.1E+02	9.1E+02	4.5E+02
PENRM (MJ)	8.0E-02	9.9E-01	9.9E-01	1.3E-01	4.5E+00	1.5E+00	1.6E+00	6.0E+00	6.0E+00	1.3E+00	1.3E+00	3.6E+00	9.4E+00	9.9E+00	1.2E+00	8.5E-01	2.6E+00	2.6E+00	2.7E+00	1.1E+00	3.6E+00	3.6E+00	3.6E+00	1.4E+00	4.3E+00	4.3E+00	4.3E+00	4.4E+00	4.4E+00	4.4E+00	7.0E-01	8.5E-01	2.6E+00	2.6E+00	2.6E+00	
PENRT (MJ)	1.8E+01	3.1E+02	3.1E+02	3.5E+01	1.9E+03	5.8E+02	6.5E+02	2.8E+03	2.8E+03	5.4E+02	5.4E+02	1.6E+03	2.7E+03	2.8E+03	2.2E+02	2.6E+02	8.7E+02	8.7E+02	4.8E+02	3.6E+02	1.3E+03	1.3E+03	7.1E+02	2.5E+02	1.6E+03	8.7E+02	8.7E+02	8.7E+02	1.7E+03	1.7E+03	1.3E+02	1.6E+02	2.7E+02	9.2E+02	9.2E+02	4.6E+02
Use of secondary materials (kg)	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

APPENDIX A		Total Environmental Impact																							
Impact Category \ Product ID		2CDB936001R1018	2CDB936001R1157	2CDB936001R1057	2CDB936001R1657	2CDB946001R1118	2CDB946001R1018	2CDB946001R1154	2CDB946001R1054	2CDB946001R1654	2CDB946001R1056	2CDB946001R1656	2CDB946011R1656	2CS1010000R0003	2CDL800001R0021	2CDL800001R0030	2CDL800001R0040	2CDB806001R0011	2CDB806001R0021	2CDB806001R0031	2CDB806001R0032	2CDB806001R0041	2CDL800001R2514	2CDL800001R0051	2CDB806001R0051
Climatic change - Total (kg CO2 eq.)		1,5E+01	5,2E+01	5,2E+01	2,8E+01	1,8E+01	1,8E+01	6,4E+01	6,4E+01	3,4E+01	6,7E+01	3,6E+01	3,6E+01	1,2E-02	1,2E-02	1,2E-02	1,3E-02	1,0E-02	1,2E-02	1,2E-02	1,2E-02	1,3E-02	1,2E-01	4,2E-02	4,2E-02
Climatic change - Fossil (kg CO2 eq.)		1,4E+01	5,0E+01	5,0E+01	2,7E+01	1,7E+01	1,7E+01	6,2E+01	6,2E+01	3,3E+01	6,4E+01	3,4E+01	3,4E+01	1,2E-02	1,2E-02	1,2E-02	1,3E-02	9,6E-03	1,2E-02	1,2E-02	1,2E-02	1,3E-02	1,2E-01	4,4E-02	4,4E-02
Climatic change - Biogenic (kg CO2 eq.)		5,5E-01	2,0E+00	2,0E+00	9,1E-01	6,9E-01	6,9E-01	2,5E+00	2,5E+00	1,1E+00	2,6E+00	1,2E+00	1,2E+00	3,4E-04	3,5E-04	3,4E-04	3,3E-04	3,6E-04	3,5E-04	3,4E-04	3,4E-04	3,3E-04	5,0E-04	-2,0E-03	-2,0E-03
Climatic change - luluc (kg CO2 eq.)		2,8E-02	1,0E-01	1,0E-01	5,3E-02	3,5E-02	3,5E-02	1,2E-01	1,2E-01	6,5E-02	1,3E-01	6,8E-02	6,8E-02	6,7E-06	6,6E-06	6,7E-06	6,8E-06	5,2E-06	6,6E-06	6,7E-06	6,7E-06	6,8E-06	2,0E-04	3,2E-05	3,2E-05
Ozone depletion (kg CFC-11 eq.)		3,1E-07	1,1E-06	1,1E-06	5,5E-07	3,8E-07	3,8E-07	1,4E-06	1,4E-06	6,8E-07	1,4E-06	7,1E-07	7,1E-07	1,2E-10	1,2E-10	1,2E-10	1,2E-10	4,0E-11	1,2E-10	1,2E-10	1,2E-10	1,2E-10	1,4E-09	3,5E-10	3,5E-10
Acidification potential (AP) (mol H+ eq)		1,6E-01	5,7E-01	5,7E-01	5,4E-01	2,0E-01	2,0E-01	7,0E-01	7,0E-01	6,7E-01	7,3E-01	6,9E-01	6,9E-01	1,6E-05	1,6E-05	1,6E-05	1,7E-05	8,9E-06	1,6E-05	1,6E-05	1,6E-05	1,7E-05	5,6E-03	1,1E-04	1,1E-04
Freshwater eutrophication (kg P eq.)		1,8E-02	6,6E-02	6,6E-02	5,2E-02	2,3E-02	2,3E-02	8,1E-02	8,1E-02	6,4E-02	8,4E-02	6,7E-02	6,7E-02	4,6E-06	4,6E-06	4,6E-06	4,6E-06	4,0E-06	4,6E-06	4,6E-06	4,6E-06	4,6E-06	4,5E-04	8,8E-06	8,8E-06
Marine aquatic eutrophication (kg N eq.)		1,5E-02	5,5E-02	5,5E-02	3,9E-02	1,9E-02	1,9E-02	6,8E-02	6,8E-02	4,8E-02	7,0E-02	5,0E-02	5,0E-02	5,4E-06	4,9E-06	5,4E-06	5,9E-06	3,5E-06	4,9E-06	5,4E-06	5,4E-06	5,9E-06	3,2E-04	3,7E-05	3,7E-05
Terrestrial eutrophication (mol N eq.)		1,6E-01	5,9E-01	5,9E-01	4,7E-01	2,0E-01	2,0E-01	7,3E-01	7,3E-01	5,7E-01	7,5E-01	5,9E-01	5,9E-01	3,9E-05	3,7E-05	3,9E-05	4,1E-05	2,4E-05	3,7E-05	3,9E-05	3,9E-05	4,1E-05	4,2E-03	2,8E-04	2,8E-04
Photochemical ozone creation (POCP) (kg NMVOC eq.)		5,0E-02	1,8E-01	1,8E-01	1,4E-01	6,2E-02	6,2E-02	2,2E-01	2,2E-01	1,7E-01	2,3E-01	1,8E-01	1,8E-01	1,6E-05	1,5E-05	1,6E-05	1,6E-05	8,0E-06	1,5E-05	1,6E-05	1,6E-05	1,6E-05	1,2E-03	9,3E-05	9,3E-05
ADP-minerals & metals (kg Sb eq.)		1,6E-03	5,9E-03	5,9E-03	6,3E-03	2,0E-03	2,0E-03	7,2E-03	7,2E-03	7,7E-03	7,5E-03	8,1E-03	8,1E-03	2,6E-08	2,5E-08	2,6E-08	2,6E-08	8,4E-09	2,5E-08	2,6E-08	2,6E-08	2,6E-08	7,4E-05	4,3E-08	4,3E-08
ADP-fossil (MJ)		3,8E+02	1,4E+03	1,4E+03	6,8E+02	4,7E+02	4,7E+02	1,7E+03	1,7E+03	8,4E+02	1,8E+03	8,7E+02	8,7E+02	9,5E-02	9,4E-02	9,5E-02	9,7E-02	5,2E-02	9,4E-02	9,5E-02	9,5E-02	9,7E-02	1,5E+00	7,0E-01	7,0E-01
Water Deprivation potential (WDP) (m3 e depr.)		5,7E+00	2,0E+01	2,0E+01	1,3E+01	7,0E+00	7,0E+00	2,5E+01	2,5E+01	1,7E+01	2,6E+01	1,7E+01	1,7E+01	9,4E-04	9,4E-04	9,4E-04	9,4E-04	4,0E-04	9,4E-04	9,4E-04	9,4E-04	9,4E-04	9,1E-02	-8,6E-03	-8,6E-03
Emission of fine particles (incidence of diseases)		5,2E-07	1,9E-06	1,9E-06	1,5E-06	6,4E-07	6,4E-07	2,3E-06	2,3E-06	1,9E-06	2,4E-06	1,9E-06	1,9E-06	1,3E-10	1,2E-10	1,3E-10	1,4E-10	6,8E-11	1,2E-10	1,3E-10	1,3E-10	1,4E-10	1,4E-08	1,0E-09	1,0E-09
Ionizing radiation, human health (kBq of U235 equiv.)		1,2E+01	4,3E+01	4,3E+01	2,0E+01	1,5E+01	1,5E+01	5,3E+01	5,3E+01	2,4E+01	5,5E+01	2,5E+01	2,5E+01	8,5E-04	8,5E-04	8,5E-04	8,6E-04	6,3E-04	8,5E-04	8,5E-04	8,5E-04	8,6E-04	1,3E-02	6,7E-03	6,7E-03
Ecotoxicity (fresh water) (CTUe)		1,7E+02	6,0E+02	6,0E+02	5,9E+02	2,1E+02	2,1E+02	7,3E+02	7,3E+02	7,2E+02	7,6E+02	7,5E+02	7,5E+02	5,7E-02	5,6E-02	5,7E-02	5,9E-02	1,3E-02	5,6E-02	5,7E-02	5,7E-02	5,9E-02	7,5E+00	1,6E-01	1,6E-01
Human toxicity, carcinogenic effects (CTUh)		1,5E-08	5,5E-08	5,5E-08	5,5E-08	1,9E-08	1,9E-08	6,8E-08	6,8E-08	6,8E-08	7,1E-08	7,0E-08	7,0E-08	2,4E-12	2,4E-12	2,4E-12	2,5E-12	6,8E-13	2,4E-12	2,4E-12	2,4E-12	2,5E-12	6,5E-10	4,3E-11	4,3E-11
Human toxicity, non-carcinogenic effects (CTUh)		1,4E-06	4,9E-06	4,9E-06	5,2E-06	1,7E-06	1,7E-06	6,1E-06	6,1E-06	6,4E-06	6,3E-06	6,7E-06	6,7E-06	4,9E-11	4,7E-11	4,9E-11	5,1E-11	3,0E-11	4,7E-11	4,9E-11	4,9E-11	5,1E-11	5,8E-08	4,3E-09	4,3E-09
Impacts related to land use/soil quality (-)		1,1E+02	3,9E+02	3,9E+02	2,7E+02	1,3E+02	1,3E+02	4,8E+02	4,8E+02	3,4E+02	5,0E+02	3,5E+02	3,5E+02	2,3E-02	2,0E-02	2,3E-02	2,6E-02	1,3E-02	2,0E-02	2,3E-02	2,3E-02	2,6E-02	2,1E+00	2,9E-01	2,9E-01
PERE (MJ)		8,2E+01	3,0E+02	3,0E+02	1,5E+02	1,0E+02	1,0E+02	3,6E+02	3,6E+02	1,8E+02	3,8E+02	1,9E+02	1,9E+02	1,1E-02	1,1E-02	1,1E-02	1,1E-02	8,9E-03	1,1E-02	1,1E-02	1,1E-02	1,1E-02	3,1E-01	3,3E-02	3,3E-02
PERM (MJ)		1,6E-01	5,4E-01	5,4E-01	5,9E-01	2,1E-01	2,1E-01	6,7E-01	6,7E-01	7,2E-01	7,0E-01	7,5E-01	7,5E-01	4,7E-04	2,5E-04	4,7E-04	6,8E-04	2,0E-04	2,5E-04	4,7E-04	4,7E-04	6,8E-04	1,8E-02	3,2E-02	3,2E-02
PERT (MJ)		8,2E+01	3,0E+02	3,0E+02	1,5E+02	1,0E+02	1,0E+02	3,7E+02	3,7E+02	1,8E+02	3,8E+02	1,9E+02	1,9E+02	1,2E-02	1,2E-02	1,2E-02	1,2E-02	9,1E-03	1,2E-02	1,2E-02	1,2E-02	1,2E-02	3,3E-01	6,4E-02	6,4E-02
PENRE (MJ)		3,8E+02	1,4E+03	1,4E+03	6,7E+02	4,7E+02	4,7E+02	1,7E+03	1,7E+03	8,3E+02	1,8E+03	8,7E+02	8,7E+02	8,3E-02	8,2E-02	8,3E-02	8,5E-02	5,0E-02	8,2E-02	8,3E-02	8,3E-02	8,5E-02	1,5E+00	5,6E-01	5,6E-01
PENRM (MJ)		1,1E+00	3,6E+00	3,6E+00	3,6E+00	1,4E+00	1,4E+00	4,2E+00	4,2E+00	4,3E+00	4,4E+00	4,4E+00	4,4E+00	1,2E-02	1,2E-02	1,2E-02	1,2E-02	2,2E-03	1,2E-02	1,2E-02	1,2E-02	1,2E-02	3,2E-02	1,4E-01	1,4E-01
PENRT (MJ)		3,8E+02	1,4E+03	1,4E+03	6,8E+02	4,7E+02	4,7E+02	1,7E+03	1,7E+03	8,4E+02	1,8E+03	8,7E+02	8,7E+02	9,5E-02	9,4E-02	9,5E-02	9,7E-02	5,2E-02	9,4E-02	9,5E-02	9,5E-02	9,7E-02	1,5E+00	7,0E-01	7,0E-01
Use of secondary materials (kg)		0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Use of renewables secondary fuels (MJ)		0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Use of non-renewables secondary fuels (MJ)		0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00	0,0E+00
Net freshwater use (m3)		1,9E-01	6,8E-01	6,8E-01	4,1E-01	2,3E-01	2,3E-01	8,3E-01	8,3E-01	5,1E-01	8,7E-01	5,3E-01	5,3E-01	3,8E-05	3,8E-05	3,8E-05	3,8E-05	2,1E-05	3,8E-05	3,8E-05	3,8E-05	3,8E-05	2,4E-03	-1,4E-04	-1,4E-04
Total use of primary energy (MJ)		4,6E+02	1,7E+03	1,7E+03	8,3E+02	5,8E+02	5,8E+02	2,1E+03	2,1E+03	1,0E+03	2,1E+03	1,1E+03	1,1E+03	1,1E-01	1,1E-01	1,1E-01	1,1E-01	6,1E-02	1,1E-01	1,1E-01	1,1E-01	1,1E-01	1,8E+00	7,6E-01	7,6E-01
Hazardous waste disposed (kg)		1,8E-02	6,4E-02	6,4E-02	4,0E-02	2,2E-02	2,2E-02	7,9E-02	7,9E-02	4,9E-02	8,2E-02	5,1E-02	5,1E-02	1,1E-04	1,1E-04	1,1E-04	1,1E-04	1,0E-04	1,1E-04	1,1E-04	1,1E-04	1,1E-04	5,4E-04	7,7E-05	7,7E-05
Non-hazardous waste disposed (kg)		1,6E+00	5,8E+00	5,8E+00	3,8E+00	2,0E+00	2,0E+00	7,1E+00	7,1E+00	4,7E+00	7,4E+00	4,8E+00	4,8E+00</												