



METAL ENCLOSURES SRX SR2

PEP ecopassport®

Product Environmental Profile



Registration number:	ABBG-00672-V01.01-EN	Drafting rules:	PCR-ed4-EN-2021 09 06
Contact information:	EPD_ELSB@abb.com	Supplemented by:	PSR-0005-ed3.1-EN-2023 12 08
Verifier accreditation number:	VH51	Information and reference documents:	www.pep-ecopassport.org
Date of issue:	December-24	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"			

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Security level: PUBLIC

Page: 1/22



ABB Purpose & Embedding Sustainability

ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

The content of this PEP cannot be compared with the content based on another program/database.

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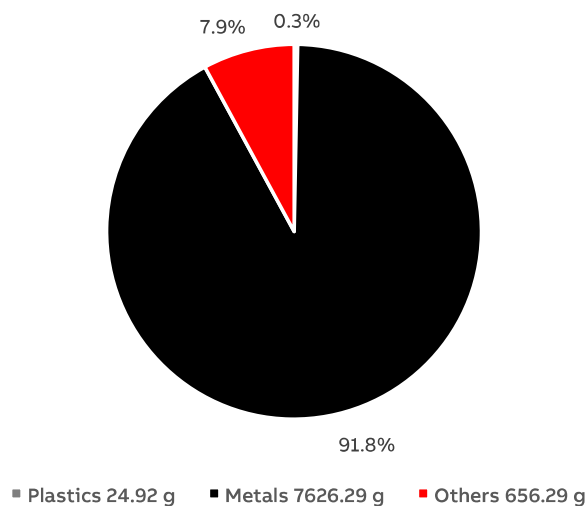


General information

Reference product	One metal enclosure SR2-SRN4320K
Description of the product	Enclosure with modular design possibilities for automation and control systems in various industries
Functional unit	Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions 400 mm x 300 mm x 200 mm, with rated current 0 A, while protecting them against mechanical impacts (IK10) and the penetration of solid objects and liquids (IP65), according to the appropriate use scenario, and for the reference service life of the product of 20 years
Other products covered	Four product series (SR2-K, SR2-VK, SRX-X, SRX-VX) and six spare parts series (FLN-K, PF, PRN-K, PTN-K, PRN-X, PTN-X)
Manufacturing address	Vignate - Italy www.new.abb.com



Constituent Materials



Total weight of reference product and packaging

8307.5

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%
Polyurethane	0.3	Steel	88.8	Cardboard	7.9
		Zinc	2.6		
		Copper	0.4		



Additional Information

Manufacturing	The final stage of manufacturing logistic flow is in Vignate (Italy)
Distribution	Global distribution from Vignate to countries where product was sold in 2022-2023
Installation	For the installation of the product, only standard tools are needed. The installation stage includes the disposal of the packaging and the transport of packaging materials to disposal
Use	The product does not require special maintenance operations and has no energy consumption
End of life	The end of life stage is modelled according to PCR-ed4-EN-2021 09 06 and PSR-0005-ed3.1-EN-2023 12 08
Benefits and loads beyond the system boundaries	The benefits are modelled according to PCR-ed4-EN-2021 09 06 methodology of calculating net benefits and loads beyond the system boundaries stage

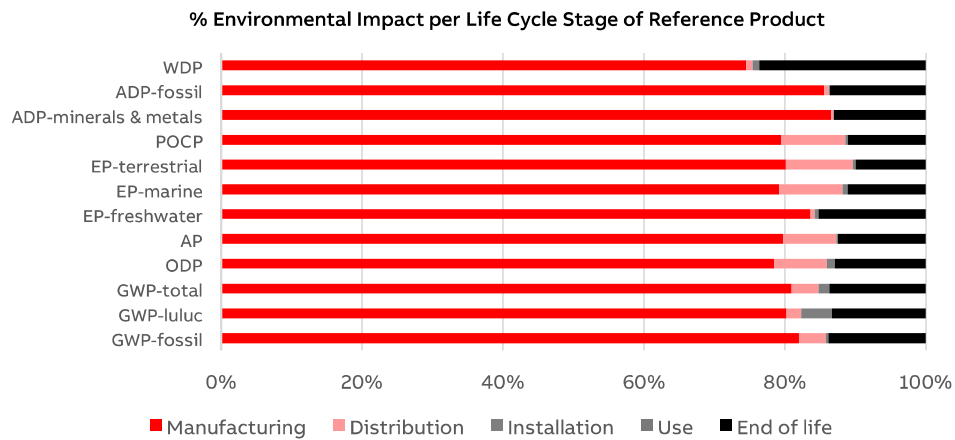


Environmental Impacts

Reference lifetime	20 years
Product category	PCR-ed4-EN-2021 09 06 PSR-0005-ed3.1-EN-2023 12 08 Unequipped enclosures
Installation elements	No additional elements needed during installation
Use scenario	The product does not require special maintenance operations and has no energy consumption
Geographical representativeness	Manufacturing: Italy Other stages: Global
Technological representativeness	Reference years are: 2022-2023 Primary data on materials were collected The process datasets used are representative of the average industrial technology for a specific product group
Software and database used	SimaPro 9.6.0.1 and ecoinvent 3.10

Energy model used	
Manufacturing	Average European medium voltage
Installation	The energy-related processes used for the inputs of the end-of-life stage are those included in the ecoinvent datasets selected for the analysis
Use	n.a.
End of life	The energy-related processes used for the inputs of the end-of-life stage are those included in the ecoinvent datasets selected for the analysis

Common base of mandatory indicators



Environmental impact indicators

Indicator		Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
GWP	Total	kg CO2 eq.	5.42E+01	4.39E+01	2.04E+00	8.28E-01	0.00E+00	7.45E+00	-1.50E+01
	Fossil	kg CO2 eq.	5.36E+01	4.39E+01	2.04E+00	2.10E-01	0.00E+00	7.41E+00	-1.47E+01
	Biogenic	kg CO2 eq.	6.09E-01	-4.74E-02	3.72E-04	6.17E-01	0.00E+00	4.00E-02	-3.63E-01
	Luluc	kg CO2 eq.	4.10E-02	3.29E-02	8.60E-04	1.79E-03	0.00E+00	5.47E-03	-4.01E-03
ODP		kg CFC-11 eq.	4.69E-07	3.68E-07	3.49E-08	5.42E-09	0.00E+00	6.06E-08	-4.59E-08
AP		H+ eq.	3.27E-01	2.61E-01	2.47E-02	8.51E-04	0.00E+00	4.08E-02	-6.03E-02
EP	Freshwater	kg P eq.	2.17E-02	1.81E-02	1.15E-04	1.18E-04	0.00E+00	3.30E-03	-5.94E-03
	Marine	kg N eq.	6.88E-02	5.45E-02	6.17E-03	4.95E-04	0.00E+00	7.64E-03	-1.14E-02
	Terrestrial	mol N eq.	7.22E-01	5.79E-01	6.83E-02	3.08E-03	0.00E+00	7.21E-02	-1.26E-01
POCP		kg NMVOC eq.	2.33E-01	1.85E-01	2.12E-02	7.82E-04	0.00E+00	2.57E-02	-4.22E-02
ADP	Minerals & metals	kg SB eq.	1.30E-03	1.13E-03	4.21E-06	7.12E-07	0.00E+00	1.70E-04	-3.68E-04
	Fossil	MJ	3.42E+02	2.93E+02	2.02E+00	6.44E-01	0.00E+00	4.65E+01	-1.07E+02
WDP		m³ eq. depr.	1.20E+01	8.94E+00	1.12E-01	1.13E-01	0.00E+00	2.84E+00	-2.93E+00

Resource use indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
PERE	MJ	4.90E+01	4.05E+01	3.39E-01	4.59E-01	0.00E+00	7.64E+00	5.06E-01
PERM	MJ	6.53E+00	6.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.55E+01	4.71E+01	3.39E-01	4.59E-01	0.00E+00	7.64E+00	5.06E-01
PENRE	MJ	6.07E+02	4.90E+02	2.77E+01	2.72E+00	0.00E+00	8.61E+01	-1.34E+02
PENRM	MJ	4.11E+00	4.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	6.11E+02	4.94E+02	2.77E+01	2.72E+00	0.00E+00	8.61E+01	-1.34E+02

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	5.37E-01	5.37E-01	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	3.89E-01	2.89E-01	3.47E-03	3.84E-03	0.00E+00	9.23E-02	-7.88E-02

Waste category indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
HWD	kg	7.25E-03	6.72E-03	1.70E-04	1.29E-05	0.00E+00	3.49E-04	-2.45E-03
N-HWD	kg	1.05E+01	5.33E+00	1.61E+00	6.30E-02	0.00E+00	3.50E+00	-5.98E-01
RWD	kg	9.73E-04	8.04E-04	6.18E-06	4.04E-06	0.00E+00	1.59E-04	-6.66E-05

Output flow indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
CfRu	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MfR	kg	6.35E+00	0.00E+00	0.00E+00	2.92E-01	0.00E+00	6.05E+00	0.00E+00
MfER	kg	1.58E-01	1.15E-01	0.00E+00	3.21E-02	0.00E+00	1.15E-02	0.00E+00
EE	MJ	0.00E+00	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	0.00E+00
	Packaging	kg of C	2.77E-01

Optional indicators

Indicator	Unit	Total	Manufacturing	Distribution	Installation	Use	End of life	Benefits
Tot PE	MJ	6.66E+02	5.41E+02	2.81E+01	3.18E+00	0.00E+00	9.38E+01	-1.34E+02
Efp	Dise inc	4.00E-06	3.11E-06	1.43E-07	7.75E-09	0.00E+00	7.46E-07	-1.22E-06
IrHH	kBq U-235 eq	3.82E+00	3.15E+00	2.51E-02	1.59E-02	0.00E+00	6.29E-01	-2.67E-01
ETX FW	CTUe	1.38E+03	1.11E+03	7.70E+00	4.51E+00	0.00E+00	2.56E+02	-4.80E+02
HTX CE	CTUh	3.41E-06	3.23E-06	1.06E-08	7.21E-10	0.00E+00	1.71E-07	-1.58E-06
HTX N-CE	CTUh	1.95E-06	1.19E-06	1.81E-08	1.64E-08	0.00E+00	7.24E-07	-4.14E-07
IrLS	Pt	2.70E+02	2.11E+02	1.95E+01	2.01E+00	0.00E+00	3.76E+01	-4.22E+00

Extrapolation factors

Individual extrapolation factors were developed for each group of products and spare parts. The extrapolation function was determined based on five points (LCA results) within each group. In addition, separate extrapolation factors were calculated for each environmental indicator and each life cycle stage.

Extrapolation was based on polynomial functions of maximum second order:

$$y = ax^2 + bx + c$$

Where:

y = extrapolated indicator result

x = total weight of the product (product weight + packaging weight)

In practice, four types of functions were used:

- $a, b, c \neq 0$
- $a, b \neq 0$
- $b, c \neq 0$
- $b \neq 0$

The total weight for all products and spare parts, which is used as a variable *x* in the extrapolation function, is shown in Table 1. The extrapolation factors are presented in Tables 2-11. To get extrapolated impact indicator results for a given product one should calculate *y* from function $y = ax^2 + bx + c$ using appropriate *x* variable from Table 1 and *a*, *b*, *c* constants from Tables 2-11.

Table 1. Total weight (variable x) used in extrapolation function

Product ID	Product type	x = total weight [kg]	Product ID	Product type	x = total weight [kg]
SRN3215K	SR2-K	4.40	SRN3215X	SRX-X	4.08
SRN3315K	SR2-K	5.57	SRN3415X	SRX-X	6.27
SRN3415K	SR2-K	6.74	SRN4315X	SRX-X	6.27
SRN4315K	SR2-K	6.74	SRN4320X	SRX-X	7.72
SRN4320K	SR2-K	8.31	SRN4420X	SRX-X	9.77
SRN4420K	SR2-K	10.42	SRN4620X	SRX-X	13.87
SRN4620K	SR2-K	14.66	SRN5420X	SRX-X	11.82
SRN5320K	SR2-K	9.90	SRN5520X	SRX-X	14.39
SRN5420K	SR2-K	12.54	SRN6420X	SRX-X	13.87
SRN5425K	SR2-K	15.19	SRN6620X	SRX-X	17.36
SRN5530K	SR2-K	21.81	SRN6630X	SRX-X	22.60
SRN6420K	SR2-K	14.66	SRN7525X	SRX-X	19.62
SRN6425K	SR2-K	16.50	SRN8620X	SRX-X	20.85
SRN6430K	SR2-K	18.33	SRN8630X	SRX-X	27.83
SRN6520K	SR2-K	16.50	SRN8830X	SRX-X	35.50
SRN6620K	SR2-K	18.33	SRN10830X	SRX-X	43.17
SRN6625K	SR2-K	21.09	SRN12630X	SRX-X	39.34
SRN6630K	SR2-K	23.85	SRN12830X	SRX-X	50.84
SRN6820K	SR2-K	22.01	SRN5420VX	SRX-VX	9.63
SRN6830K	SR2-K	29.36	SRN6420VX	SRX-VX	11.18
SRN7520K	SR2-K	18.03	SRN7525VX	SRX-VX	16.16
SRN7525K	SR2-K	20.71	SRN8625VX	SRX-VX	20.44
SRN8620K	SR2-K	22.01	SRN10830VX	SRX-VX	32.53
SRN8625K	SR2-K	25.68	FLN3215K	FLN-K	0.03
SRN8630K	SR2-K	29.36	FLN3315K	FLN-K	0.22
SRN8830K	SR2-K	37.18	FLN3415K	FLN-K	0.40
SRN10625K	SR2-K	30.34	FLN4320K	FLN-K	0.40
SRN10630K	SR2-K	35.23	FLN4420K	FLN-K	0.61
SRN10830K	SR2-K	45.01	FLN4425K	FLN-K	0.80
SRN12630K	SR2-K	41.09	FLN4620K	FLN-K	0.96
SRN12830K	SR2-K	52.83	FLN6625K	FLN-K	1.15
SRN12840K	SR2-K	68.47	FLN7520K	FLN-K	0.80
SRN5420VK	SR2-VK	10.41	FLN7525K	FLN-K	1.00
SRN5425VK	SR2-VK	10.41	FLN8630K	FLN-K	1.27
SRN6420VK	SR2-VK	11.97	FLN8830K	FLN-K	1.33
SRN6425VK	SR2-VK	13.92	PF1060	PF	8.93
SRN7520VK	SR2-VK	15.55	PF1080	PF	12.02
SRN7525VK	SR2-VK	18.39	PF1260	PF	10.78
SRN8625VK	SR2-VK	21.77	PF1280	PF	14.52
SRN8630VK	SR2-VK	24.32	PF3020	PF	0.65
SRN10625VK	SR2-VK	24.95	PF3030	PF	1.06
SRN10630VK	SR2-VK	28.13	PF3040	PF	1.48
SRN10830VK	SR2-VK	34.50	PF4030	PF	1.48
SRN12630VK	SR2-VK	31.95	PF4040	PF	2.14
SRN12830VK	SR2-VK	39.59	PF4060	PF	3.41

Product ID	Product type	x = total weight [kg]
PF5030	PF	1.98
PF5040	PF	2.76
PF5050	PF	3.53
PF6040	PF	3.41
PF6060	PF	5.23
PF7050	PF	5.07
PF8060	PF	7.08
PF8080	PF	9.55
PRN1066K	PRN-K	6.84
PRN1086K	PRN-K	9.12
PRN1266K	PRN-K	8.21
PRN1286K	PRN-K	11.07
PRN3006K	PRN-K	1.00
PRN3026K	PRN-K	0.75
PRN3046K	PRN-K	1.40
PRN4036K	PRN-K	1.40
PRN4046K	PRN-K	1.80
PRN4066K	PRN-K	2.68
PRN5036K	PRN-K	1.69
PRN5046K	PRN-K	2.26
PRN6046K	PRN-K	2.68
PRN6066K	PRN-K	4.10
PRN7056K	PRN-K	3.98
PRN8066K	PRN-K	5.27
PRN8086K	PRN-K	7.30
PTN1066K	PTN-K	7.99
PTN1086K	PTN-K	10.50

Product ID	Product type	x = total weight [kg]
PTN1266K	PTN-K	9.52
PTN1286K	PTN-K	12.61
PTN5046K	PTN-K	2.90
PTN6046K	PTN-K	3.38
PTN7056K	PTN-K	4.82
PTN8066K	PTN-K	6.46
PRN1086X	PRN-X	9.12
PRN1266X	PRN-X	8.21
PRN1286X	PRN-X	11.07
PRN3026X	PRN-X	0.75
PRN3046X	PRN-X	1.40
PRN4036X	PRN-X	1.40
PRN4046X	PRN-X	1.80
PRN4066X	PRN-X	2.68
PRN5046X	PRN-X	2.26
PRN5056X	PRN-X	2.84
PRN6046X	PRN-X	2.68
PRN6066X	PRN-X	4.10
PRN6086X	PRN-X	5.27
PRN7056X	PRN-X	3.98
PRN8066X	PRN-X	5.27
PRN8086X	PRN-X	7.30
PTN1086X	PTN-X	10.50
PTN4036X	PTN-X	1.87
PTN5046X	PTN-X	2.90
PTN6046X	PTN-X	3.38
PTN7056X	PTN-X	4.82
PTN8066X	PTN-X	6.46

Table 1. Extrapolation factors for manufacturing stage – products

	SR2-K			SRX-X			SR2-VK			SRX-VX		
	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	5.27E+00	0.00E+00	0.00E+00	1.08E+01	0.00E+00	0.00E+00	4.19E+00	5.80E+00	0.00E+00	7.99E+00	1.04E+01
GWP - fossil	0.00E+00	5.28E+00	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	4.20E+00	5.79E+00	0.00E+00	7.94E+00	1.03E+01
GWP - biogenic	-2.00E-05	-8.80E-03	3.40E-02	9.00E-07	6.48E-02	1.86E-02	-6.00E-05	-6.10E-03	1.73E-02	0.00E+00	4.30E-02	1.14E-01
GWP - luluc	0.00E+00	3.50E-03	4.50E-03	0.00E+00	8.40E-03	2.90E-03	0.00E+00	3.10E-03	6.80E-03	0.00E+00	6.50E-03	1.15E-02
ODP	0.00E+00	4.00E-08	2.00E-08	0.00E+00	9.00E-08	0.00E+00	0.00E+00	4.00E-08	4.00E-08	0.00E+00	7.00E-08	7.00E-08
AP	0.00E+00	2.77E-02	3.78E-02	0.00E+00	6.15E-02	2.81E-02	0.00E+00	2.48E-02	6.18E-02	0.00E+00	4.82E-02	9.27E-02
EP - freshwater	0.00E+00	1.90E-03	3.10E-03	0.00E+00	3.50E-03	2.80E-03	0.00E+00	1.40E-03	6.30E-03	0.00E+00	2.50E-03	7.60E-03
EP - marine	0.00E+00	6.30E-03	2.90E-03	0.00E+00	1.20E-02	9.00E-04	0.00E+00	5.60E-03	6.70E-03	0.00E+00	9.50E-03	1.18E-02
EP - terrestrial	0.00E+00	6.62E-02	3.50E-02	0.00E+00	1.27E-01	0.00E+00	0.00E+00	5.95E-02	7.65E-02	0.00E+00	1.01E-01	1.30E-01
POCP	0.00E+00	2.16E-02	0.00E+00	0.00E+00	3.99E-02	0.00E+00	0.00E+00	1.87E-02	2.47E-02	0.00E+00	3.13E-02	4.05E-02
ADP - minerals&metals	-4.00E-07	6.00E-05	8.00E-04	-5.00E-07	2.90E-04	8.00E-04	-7.00E-08	4.00E-05	1.10E-03	0.00E+00	2.00E-04	1.40E-03
ADP - fossil	0.00E+00	3.51E+01	0.00E+00	0.00E+00	6.98E+01	0.00E+00	0.00E+00	2.56E+01	5.03E+01	0.00E+00	4.92E+01	7.76E+01
WDP	0.00E+00	9.46E-01	1.31E+00	0.00E+00	2.66E+00	7.30E-01	0.00E+00	7.71E-01	2.41E+00	0.00E+00	1.95E+00	3.95E+00
PERE	0.00E+00	4.53E+00	3.53E+00	0.00E+00	2.24E+01	0.00E+00	0.00E+00	3.65E+00	8.54E+00	0.00E+00	1.60E+01	2.51E+01
PERM	0.00E+00	7.78E-01	0.00E+00	0.00E+00	7.82E-01	1.26E-01	0.00E+00	8.36E-01	-2.76E-01	0.00E+00	8.47E-01	-1.58E-01
PERT	0.00E+00	5.31E+00	3.61E+00	0.00E+00	2.12E+01	0.00E+00	0.00E+00	4.49E+00	8.26E+00	0.00E+00	1.68E+01	2.49E+01
PENRE	0.00E+00	5.84E+01	0.00E+00	0.00E+00	1.21E+02	0.00E+00	0.00E+00	4.66E+01	6.94E+01	0.00E+00	8.92E+01	1.22E+02
PENRM	0.00E+00	4.45E-01	4.73E-01	0.00E+00	4.40E-01	3.92E-01	0.00E+00	4.39E-01	6.67E-01	0.00E+00	4.32E-01	5.78E-01
PENRT	0.00E+00	5.89E+01	0.00E+00	0.00E+00	1.21E+02	0.00E+00	0.00E+00	4.70E+01	7.01E+01	0.00E+00	8.97E+01	1.22E+02
SM	0.00E+00	6.17E-02	0.00E+00	-1.00E-04	7.01E-02	-9.20E-03	4.00E-04	6.67E-02	5.01E-02	0.00E+00	8.68E-02	-5.72E-02
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	0.00E+00	3.10E-02	3.87E-02	-4.00E-06	7.83E-02	2.07E-02	-8.00E-05	2.85E-02	4.10E-02	0.00E+00	5.72E-02	1.16E-01
HWD	-2.00E-06	6.00E-04	2.50E-03	-2.00E-06	6.00E-04	2.50E-03	-6.00E-06	7.00E-04	1.60E-03	-6.00E-06	7.00E-04	1.60E-03
N-HWD	0.00E+00	6.36E-01	0.00E+00	0.00E+00	1.14E+00	0.00E+00	0.00E+00	5.47E-01	5.38E-01	0.00E+00	8.91E-01	9.65E-01
RWD	-3.00E-08	9.00E-05	5.00E-05	0.00E+00	2.00E-04	0.00E+00	0.00E+00	7.00E-05	2.00E-04	0.00E+00	1.00E-04	3.00E-04
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfer	2.00E-06	1.38E-02	2.00E-04	0.00E+00	1.38E-02	-8.00E-04	0.00E+00	1.35E-02	1.80E-03	0.00E+00	1.34E-02	1.00E-03
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	-4.00E-05	3.40E-02	-6.70E-03	-7.00E-05	3.62E-02	-4.70E-03	0.00E+00	4.26E-02	-5.17E-02	0.00E+00	4.48E-02	-2.95E-02

Table 3. Extrapolation factors for distribution stage – products

	SR2-K			SRX-X			SR2-VK			SRX-VX		
	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	2.59E-01	0.00E+00	0.00E+00	3.15E-01	0.00E+00	4.40E-03	2.34E-02	8.55E-01	0.00E+00	1.96E-01	0.00E+00
GWP - fossil	0.00E+00	2.59E-01	0.00E+00	0.00E+00	3.14E-01	0.00E+00	4.40E-03	2.34E-02	8.54E-01	0.00E+00	1.96E-01	0.00E+00
GWP - biogenic	-9.00E-07	8.00E-05	-2.00E-04	1.00E-06	1.00E-04	3.00E-05	2.00E-06	3.00E-05	3.00E-04	0.00E+00	1.00E-04	0.00E+00
GWP - luluc	3.00E-07	1.00E-04	7.00E-05	-5.00E-07	1.00E-04	-1.00E-04	2.00E-06	5.00E-06	3.00E-04	0.00E+00	7.00E-05	0.00E+00
ODP	0.00E+00	4.00E-09	9.00E-10	0.00E+00	6.00E-09	0.00E+00	9.00E-11	6.00E-10	2.00E-08	0.00E+00	4.00E-09	0.00E+00
AP	3.00E-05	2.10E-03	6.80E-03	-3.00E-05	2.70E-03	0.00E+00	2.00E-05	-4.00E-04	5.70E-03	0.00E+00	4.00E-04	0.00E+00
EP - freshwater	-2.00E-08	2.00E-05	-4.00E-06	0.00E+00	2.00E-05	0.00E+00	3.00E-07	2.00E-06	5.00E-05	0.00E+00	1.00E-05	0.00E+00
EP - marine	6.00E-06	5.00E-04	1.70E-03	-8.00E-06	7.00E-04	0.00E+00	3.00E-06	5.00E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00
EP - terrestrial	7.00E-05	5.80E-03	1.87E-02	-9.00E-05	7.40E-03	0.00E+00	3.00E-05	5.00E-04	0.00E+00	0.00E+00	1.30E-03	0.00E+00
POCP	2.00E-05	2.00E-03	4.60E-03	-2.00E-05	2.60E-03	0.00E+00	1.00E-05	4.00E-04	0.00E+00	0.00E+00	8.00E-04	0.00E+00
ADP - minerals&metals	-1.00E-09	6.00E-07	-3.00E-07	0.00E+00	8.00E-07	0.00E+00	1.00E-08	9.00E-08	2.00E-06	0.00E+00	5.00E-07	0.00E+00
ADP - fossil	0.00E+00	2.51E-01	0.00E+00	0.00E+00	3.65E-01	0.00E+00	5.10E-03	3.71E-02	9.44E-01	0.00E+00	2.34E-01	0.00E+00
WDP	-2.00E-05	1.51E-02	-5.90E-03	0.00E+00	2.10E-02	0.00E+00	3.00E-04	2.20E-03	5.39E-02	0.00E+00	1.36E-02	0.00E+00
PERE	-1.00E-04	4.69E-02	-2.72E-02	0.00E+00	6.73E-02	0.00E+00	6.00E-04	2.46E-02	0.00E+00	0.00E+00	4.40E-02	0.00E+00
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	-1.00E-04	4.69E-02	-2.72E-02	0.00E+00	6.73E-02	0.00E+00	6.00E-04	2.46E-02	0.00E+00	0.00E+00	4.40E-02	0.00E+00
PENRE	0.00E+00	3.51E+00	0.00E+00	0.00E+00	4.53E+00	0.00E+00	3.84E-02	1.58E+00	0.00E+00	0.00E+00	2.85E+00	0.00E+00
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	0.00E+00	3.51E+00	0.00E+00	0.00E+00	4.53E+00	0.00E+00	3.84E-02	1.58E+00	0.00E+00	0.00E+00	2.85E+00	0.00E+00
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	-8.00E-07	5.00E-04	-2.00E-04	0.00E+00	7.00E-04	0.00E+00	6.00E-06	2.00E-04	0.00E+00	0.00E+00	4.00E-04	0.00E+00
HWD	-1.00E-08	2.00E-05	-3.00E-06	0.00E+00	3.00E-05	0.00E+00	2.00E-07	1.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00
N-HWD	-9.00E-04	2.40E-01	-2.39E-01	0.00E+00	3.65E-01	0.00E+00	3.10E-03	1.37E-01	0.00E+00	0.00E+00	2.44E-01	0.00E+00
RWD	-3.00E-09	9.00E-07	-7.00E-07	3.00E-09	1.00E-06	0.00E+00	1.00E-08	5.00E-07	0.00E+00	0.00E+00	9.00E-07	0.00E+00
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 4. Extrapolation factors for installation stage – products

	SR2-K			SRX-X			SR2-VK			SRX-VX		
	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	1.00E-04	9.32E-02	4.34E-02	-5.00E-04	1.05E-01	-4.70E-02	0.00E+00	9.85E-02	-1.35E-01	0.00E+00	1.02E-01	-6.72E-02
GWP - fossil	-2.00E-04	3.21E-02	-5.34E-02	2.00E-04	2.98E-02	2.15E-02	0.00E+00	5.44E-02	-5.38E-02	0.00E+00	5.84E-02	-3.85E-02
GWP - biogenic	3.00E-04	6.08E-02	9.72E-02	-6.00E-04	6.87E-02	0.00E+00	0.00E+00	4.36E-02	-8.11E-02	0.00E+00	4.30E-02	-2.83E-02
GWP - luluc	-2.00E-06	3.00E-04	-5.00E-04	2.00E-06	3.00E-04	2.00E-04	0.00E+00	5.00E-04	-5.00E-04	0.00E+00	5.00E-04	-3.00E-04
ODP	-6.00E-12	8.00E-10	-1.00E-09	6.00E-12	8.00E-10	6.00E-10	0.00E+00	1.00E-09	-1.00E-09	0.00E+00	2.00E-09	-1.00E-09
AP	-8.00E-07	1.00E-04	-2.00E-04	7.00E-07	1.00E-04	8.00E-05	0.00E+00	2.00E-04	-2.00E-04	0.00E+00	2.00E-04	-1.00E-04
EP - freshwater	-1.00E-07	2.00E-05	-3.00E-05	1.00E-07	2.00E-05	1.00E-05	0.00E+00	3.00E-05	-3.00E-05	0.00E+00	3.00E-05	-2.00E-05
EP - marine	-5.00E-07	7.00E-05	-1.00E-04	4.00E-07	7.00E-05	5.00E-05	0.00E+00	1.00E-04	-1.00E-04	0.00E+00	1.00E-04	-9.00E-05
EP - terrestrial	-3.00E-06	5.00E-04	-7.00E-04	2.00E-06	4.00E-04	3.00E-04	0.00E+00	7.00E-04	-8.00E-04	0.00E+00	8.00E-04	-5.00E-04
POCP	-7.00E-07	1.00E-04	-2.00E-04	6.00E-07	1.00E-04	6.00E-05	0.00E+00	2.00E-04	-2.00E-04	0.00E+00	2.00E-04	-1.00E-04
ADP - minerals&metals	-8.00E-10	1.00E-07	-2.00E-07	7.00E-10	1.00E-07	8.00E-08	0.00E+00	2.00E-07	-2.00E-07	0.00E+00	2.00E-07	-1.00E-07
ADP - fossil	-7.00E-04	9.99E-02	-1.75E-01	7.00E-04	9.18E-02	7.19E-02	0.00E+00	1.72E-01	-1.68E-01	0.00E+00	1.85E-01	-1.22E-01
WDP	-1.00E-04	1.70E-02	-2.69E-02	1.00E-04	1.59E-02	1.07E-02	0.00E+00	2.84E-02	-2.83E-02	0.00E+00	3.05E-02	-2.01E-02
PERE	-5.00E-04	7.21E-02	-1.32E-01	5.00E-04	6.57E-02	5.50E-02	0.00E+00	1.26E-01	-1.22E-01	0.00E+00	1.35E-01	-8.91E-02
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	-5.00E-04	7.21E-02	-1.32E-01	5.00E-04	6.57E-02	5.50E-02	0.00E+00	1.26E-01	-1.22E-01	0.00E+00	1.35E-01	-8.91E-02
PENRE	-2.90E-03	4.20E-01	-7.25E-01	2.70E-03	3.87E-01	2.96E-01	0.00E+00	7.21E-01	-7.06E-01	0.00E+00	7.73E-01	-5.10E-01
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	-2.90E-03	4.20E-01	-7.25E-01	2.70E-03	3.87E-01	2.96E-01	0.00E+00	7.21E-01	-7.06E-01	0.00E+00	7.73E-01	-5.10E-01
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	-4.00E-06	6.00E-04	-9.00E-04	3.00E-06	5.00E-04	4.00E-04	0.00E+00	1.00E-03	-1.00E-03	0.00E+00	1.00E-03	-7.00E-04
HWD	-1.00E-08	2.00E-06	-3.00E-06	1.00E-08	2.00E-06	1.00E-06	0.00E+00	3.00E-06	-3.00E-06	0.00E+00	4.00E-06	-2.00E-06
N-HWD	-6.00E-05	9.30E-03	-1.36E-02	5.00E-05	8.80E-03	5.20E-03	0.00E+00	1.52E-02	-1.54E-02	0.00E+00	1.63E-02	-1.07E-02
RWD	-5.00E-09	6.00E-07	-1.00E-06	4.00E-09	6.00E-07	5.00E-07	0.00E+00	1.00E-06	-1.00E-06	0.00E+00	1.00E-06	-8.00E-07
CfRu	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MfR	-3.00E-04	4.61E-02	-8.54E-02	3.00E-04	4.20E-02	3.57E-02	0.00E+00	8.08E-02	-7.82E-02	0.00E+00	8.68E-02	-5.72E-02
MfER	-4.00E-05	5.10E-03	-9.40E-03	4.00E-05	4.60E-03	3.90E-03	0.00E+00	8.90E-03	-8.60E-03	0.00E+00	9.50E-03	-6.30E-03
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 5. Extrapolation factors for end-of-life stage – products

	SR2-K			SRX-X			SR2-VK			SRX-VX		
	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	4.50E-03	7.36E-01	1.21E+00	-6.40E-03	8.60E-01	-5.94E-01	0.00E+00	6.76E-01	-1.02E+00	0.00E+00	6.68E-01	-7.67E-01
GWP - fossil	4.50E-03	7.30E-01	1.21E+00	-6.40E-03	8.55E-01	-5.95E-01	0.00E+00	6.72E-01	-1.03E+00	0.00E+00	6.64E-01	-7.74E-01
GWP - biogenic	-5.00E-06	4.90E-03	3.00E-04	8.00E-06	4.70E-03	1.90E-03	0.00E+00	3.70E-03	7.90E-03	0.00E+00	3.70E-03	6.70E-03
GWP - luluc	1.00E-06	6.00E-04	4.00E-04	-2.00E-06	6.00E-04	-7.00E-05	0.00E+00	4.00E-04	8.00E-04	0.00E+00	4.00E-04	8.00E-04
ODP	1.00E-11	7.00E-09	3.00E-09	-2.00E-11	7.00E-09	-1.00E-09	0.00E+00	5.00E-09	6.00E-09	0.00E+00	5.00E-09	6.00E-09
AP	1.00E-05	3.50E-03	1.33E-02	-3.00E-05	4.00E-03	5.50E-03	-9.00E-06	2.10E-03	9.40E-03	0.00E+00	1.60E-03	1.39E-02
EP - freshwater	1.00E-06	3.00E-04	8.00E-04	-2.00E-06	4.00E-04	1.00E-04	0.00E+00	2.00E-04	8.00E-04	0.00E+00	1.00E-04	8.00E-04
EP - marine	5.00E-06	7.00E-04	1.60E-03	-7.00E-06	9.00E-04	-4.00E-04	0.00E+00	6.00E-04	-7.00E-04	0.00E+00	6.00E-04	-4.00E-04
EP - terrestrial	4.00E-05	6.90E-03	1.47E-02	-6.00E-05	8.00E-03	-1.80E-03	0.00E+00	3.80E-03	8.10E-03	0.00E+00	3.60E-03	9.30E-03
POCP	1.00E-05	2.50E-03	5.00E-03	-2.00E-05	2.90E-03	-8.00E-04	0.00E+00	1.40E-03	2.60E-03	0.00E+00	1.30E-03	3.00E-03
ADP - minerals&metals	-7.00E-08	1.00E-05	1.00E-04	-1.00E-07	1.00E-05	1.00E-04	-2.00E-07	1.00E-05	9.00E-05	-2.00E-07	1.00E-05	9.00E-05
ADP - fossil	2.67E-02	4.65E+00	7.13E+00	-3.74E-02	5.38E+00	-3.40E+00	0.00E+00	2.32E+00	4.03E+00	0.00E+00	2.17E+00	4.58E+00
WDP	1.50E-03	2.84E-01	4.51E-01	-2.10E-03	3.25E-01	-1.36E-01	0.00E+00	1.34E-01	3.96E-01	0.00E+00	1.25E-01	4.20E-01
PERE	2.00E-04	8.84E-01	3.54E-01	-5.00E-04	8.89E-01	2.46E-01	0.00E+00	6.21E-01	1.62E+00	0.00E+00	6.04E-01	1.49E+00
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	2.00E-04	8.84E-01	3.54E-01	-5.00E-04	8.89E-01	2.46E-01	0.00E+00	6.21E-01	1.62E+00	0.00E+00	6.04E-01	1.49E+00
PENRE	4.13E-02	8.91E+00	1.09E+01	-5.72E-02	1.00E+01	-5.24E+00	0.00E+00	5.22E+00	6.84E+00	0.00E+00	4.98E+00	7.55E+00
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	4.13E-02	8.91E+00	1.09E+01	-5.72E-02	1.00E+01	-5.24E+00	0.00E+00	5.22E+00	6.84E+00	0.00E+00	4.98E+00	7.55E+00
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	5.00E-05	9.40E-03	1.33E-02	-7.00E-05	1.07E-02	-5.10E-03	0.00E+00	4.70E-03	1.12E-02	0.00E+00	4.40E-03	1.20E-02
HWD	2.00E-07	3.00E-05	5.00E-05	-3.00E-07	4.00E-05	3.00E-05	0.00E+00	2.00E-05	1.00E-05	0.00E+00	2.00E-05	2.00E-05
N-HWD	8.00E-04	3.92E-01	2.33E-01	-1.00E-03	4.11E-01	-6.27E-02	0.00E+00	4.07E-01	-2.38E-01	0.00E+00	4.06E-01	-1.96E-01
RWD	-5.00E-08	2.00E-05	-1.00E-05	7.00E-08	2.00E-05	9.00E-06	0.00E+00	2.00E-05	4.00E-05	0.00E+00	2.00E-05	3.00E-05
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfr	1.00E-04	7.32E-01	-3.37E-02	2.00E-04	7.28E-01	-3.65E-02	0.00E+00	5.23E-01	9.98E-01	0.00E+00	5.09E-01	8.64E-01
Mfer	-7.00E-06	9.00E-04	4.60E-03	-6.00E-06	8.00E-04	4.10E-03	1.10E-03	7.03E-02	-1.13E-01	0.00E+00	1.28E-01	-5.41E-01
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 6. Extrapolation factors for benefits stage – products

	SR2-K			SRX-X			SR2-VK			SRX-VX		
	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	-1.82E+00	1.18E-01	0.00E+00	-4.61E+00	1.09E+00	0.00E+00	-1.43E+00	-1.84E+00	0.00E+00	-3.34E+00	-4.07E+00
GWP - fossil	0.00E+00	-1.77E+00	6.04E-02	0.00E+00	-4.58E+00	1.34E+00	0.00E+00	-1.43E+00	-1.86E+00	0.00E+00	-3.32E+00	-4.03E+00
GWP - biogenic	-4.00E-04	-2.66E-02	-1.31E-01	7.00E-04	-7.72E-02	6.80E-02	4.00E-05	-3.10E-03	6.75E-02	0.00E+00	-2.32E-02	-3.93E-02
GWP - luluc	2.00E-06	-4.00E-04	-7.00E-04	-3.00E-06	-2.80E-03	-9.00E-04	3.00E-06	-5.00E-04	-1.10E-03	0.00E+00	-2.10E-03	-4.40E-03
ODP	7.00E-12	-5.00E-09	-2.00E-09	0.00E+00	-3.00E-08	0.00E+00	0.00E+00	-7.00E-09	2.00E-09	0.00E+00	-2.00E-08	-2.00E-08
AP	4.00E-06	-6.30E-03	-9.90E-03	0.00E+00	-2.35E-02	0.00E+00	0.00E+00	-6.00E-03	-1.71E-02	0.00E+00	-1.78E-02	-3.09E-02
EP - freshwater	3.00E-07	-6.00E-04	-9.00E-04	0.00E+00	-1.40E-03	-7.00E-04	0.00E+00	-5.00E-04	-2.10E-03	0.00E+00	-1.00E-03	-2.80E-03
EP - marine	1.00E-06	-1.30E-03	-5.00E-04	0.00E+00	-4.20E-03	0.00E+00	0.00E+00	-1.20E-03	-2.00E-03	0.00E+00	-3.20E-03	-4.20E-03
EP - terrestrial	1.00E-05	-1.46E-02	-7.50E-03	0.00E+00	-4.52E-02	0.00E+00	0.00E+00	-1.35E-02	-2.17E-02	0.00E+00	-3.45E-02	-4.51E-02
POCP	3.00E-06	-4.90E-03	-1.80E-03	0.00E+00	-1.42E-02	0.00E+00	0.00E+00	-4.40E-03	-7.00E-03	0.00E+00	-1.08E-02	-1.41E-02
ADP - minerals&metals	1.00E-07	-2.00E-05	-3.00E-04	2.00E-07	-1.00E-04	-3.00E-04	0.00E+00	-1.00E-05	4.00E-04	0.00E+00	-7.00E-05	-5.00E-04
ADP - fossil	-4.00E-04	-1.29E+01	1.78E-01	0.00E+00	-3.06E+01	8.07E+00	0.00E+00	-9.49E+00	-1.77E+01	0.00E+00	-2.14E+01	-3.18E+01
WDP	2.00E-04	-3.22E-01	-3.36E-01	0.00E+00	-1.18E+00	0.00E+00	0.00E+00	-2.61E-01	-8.02E-01	0.00E+00	-8.52E-01	-1.54E+00
PERE	6.40E-03	-7.69E-02	7.20E-01	-1.31E-02	-8.70E+00	0.00E+00	0.00E+00	-4.07E-01	-2.13E+00	0.00E+00	-6.64E+00	-1.01E+01
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	6.40E-03	-7.69E-02	7.20E-01	-1.31E-02	-8.70E+00	0.00E+00	0.00E+00	-4.07E-01	-2.13E+00	0.00E+00	-6.64E+00	-1.01E+01
PENRE	0.00E+00	-1.59E+01	-2.30E+00	0.00E+00	-4.79E+01	1.26E+01	0.00E+00	-1.33E+01	-1.85E+01	0.00E+00	-3.48E+01	-4.41E+01
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	0.00E+00	-1.59E+01	-2.30E+00	0.00E+00	-4.79E+01	1.26E+01	0.00E+00	-1.33E+01	-1.85E+01	0.00E+00	-3.48E+01	-4.41E+01
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	8.00E-06	-8.60E-03	-9.70E-03	0.00E+00	-3.22E-02	0.00E+00	0.00E+00	-7.10E-03	-2.24E-02	0.00E+00	-2.33E-02	-4.26E-02
HWD	7.00E-07	-2.00E-04	-9.00E-04	7.00E-07	-2.00E-04	-9.00E-04	3.00E-06	-3.00E-04	0.00E+00	4.00E-06	-3.00E-04	0.00E+00
N-HWD	7.00E-05	-7.38E-02	9.70E-03	0.00E+00	-3.33E-01	1.32E-01	0.00E+00	-6.54E-02	-9.52E-02	0.00E+00	-2.40E-01	-3.07E-01
RWD	2.00E-08	-7.00E-06	-2.00E-05	0.00E+00	-6.00E-05	-2.00E-06	0.00E+00	-6.00E-06	-3.00E-05	0.00E+00	-4.00E-05	-8.00E-05
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mfer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 7. Extrapolation factors for manufacturing stage – spare parts

	FLN-K			PF			PRN-K			PTN-K			PRN-X			PTN-X		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	5.06E+00	0.00E+00	0.00E+00	5.30E+00	0.00E+00	0.00E+00	5.04E+00	0.00E+00	0.00E+00	2.04E+00	3.30E+00	0.00E+00	1.10E+01	0.00E+00	-7.26E-02	4.35E+00	5.31E+00
GWP - fossil	0.00E+00	5.07E+00	0.00E+00	0.00E+00	5.28E+00	0.00E+00	0.00E+00	5.05E+00	0.00E+00	0.00E+00	2.05E+00	3.31E+00	0.00E+00	1.09E+01	0.00E+00	-7.20E-02	4.33E+00	5.26E+00
GWP - biogenic	0.00E+00	-9.30E-03	0.00E+00	0.00E+00	9.00E-03	0.00E+00	0.00E+00	-8.80E-03	0.00E+00	0.00E+00	-3.50E-03	-5.70E-03	0.00E+00	7.05E-02	0.00E+00	-5.00E-04	2.09E-02	3.96E-02
GWP - luluc	0.00E+00	2.80E-03	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00	1.00E-03	2.00E-03	0.00E+00	7.90E-03	0.00E+00	-6.00E-05	2.90E-03	4.10E-03
ODP	0.00E+00	4.00E-08	0.00E+00	0.00E+00	5.00E-08	0.00E+00	0.00E+00	4.00E-08	0.00E+00	0.00E+00	3.00E-08	1.00E-08	0.00E+00	8.00E-08	0.00E+00	-4.00E-10	4.00E-08	3.00E-08
AP	0.00E+00	1.74E-02	0.00E+00	0.00E+00	2.07E-02	0.00E+00	0.00E+00	1.74E-02	0.00E+00	0.00E+00	1.26E-02	5.40E-02	0.00E+00	5.34E-02	0.00E+00	-3.00E-04	2.47E-02	2.30E-02
EP - freshwater	0.00E+00	1.80E-03	0.00E+00	0.00E+00	2.40E-03	0.00E+00	0.00E+00	1.80E-03	0.00E+00	0.00E+00	5.00E-04	1.40E-03	0.00E+00	3.50E-03	0.00E+00	-2.00E-05	1.20E-03	1.80E-03
EP - marine	0.00E+00	3.80E-03	0.00E+00	0.00E+00	4.60E-03	0.00E+00	0.00E+00	3.80E-03	0.00E+00	0.00E+00	2.30E-03	1.70E-03	0.00E+00	9.90E-03	0.00E+00	-6.00E-05	4.50E-03	4.30E-03
EP - terrestrial	0.00E+00	4.04E-02	0.00E+00	0.00E+00	4.97E-02	0.00E+00	0.00E+00	4.02E-02	0.00E+00	0.00E+00	2.64E-02	1.53E-02	0.00E+00	1.05E-01	0.00E+00	-6.00E-04	4.88E-02	4.45E-02
POCP	0.00E+00	1.43E-02	0.00E+00	0.00E+00	1.68E-02	0.00E+00	0.00E+00	1.44E-02	0.00E+00	0.00E+00	8.30E-03	6.70E-03	0.00E+00	3.39E-02	0.00E+00	-2.00E-04	1.54E-02	1.48E-02
ADP - minerals&metals	0.00E+00	9.00E-06	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	7.00E-06	3.00E-06	0.00E+00	2.00E-04	0.00E+00	-1.00E-06	7.00E-05	1.00E-04
ADP - fossil	0.00E+00	3.70E+01	0.00E+00	0.00E+00	4.04E+01	0.00E+00	0.00E+00	3.66E+01	0.00E+00	0.00E+00	9.43E+00	2.99E+01	0.00E+00	7.37E+01	0.00E+00	-5.32E-01	2.50E+01	3.90E+01
WDP	0.00E+00	9.30E-01	0.00E+00	0.00E+00	1.20E+00	0.00E+00	0.00E+00	9.57E-01	0.00E+00	0.00E+00	4.40E-01	5.63E-01	0.00E+00	2.78E+00	0.00E+00	-1.84E-02	1.09E+00	1.34E+00
PERE	0.00E+00	4.25E+00	0.00E+00	0.00E+00	5.41E+00	0.00E+00	0.00E+00	3.44E+00	0.00E+00	0.00E+00	8.68E-01	3.33E+00	0.00E+00	2.24E+01	0.00E+00	-1.69E-01	7.28E+00	1.25E+01
PERM	0.00E+00	8.08E-01	1.27E-02	0.00E+00	7.01E-01	0.00E+00	0.00E+00	1.63E+00	0.00E+00	0.00E+00	1.53E+00	-3.20E-01	0.00E+00	1.63E+00	0.00E+00	0.00E+00	1.53E+00	-3.32E-01
PERT	0.00E+00	5.07E+00	0.00E+00	0.00E+00	6.11E+00	0.00E+00	0.00E+00	5.07E+00	0.00E+00	0.00E+00	2.40E+00	3.01E+00	0.00E+00	2.40E+01	0.00E+00	-1.67E-01	8.79E+00	1.22E+01
PENRE	0.00E+00	5.46E+01	0.00E+00	0.00E+00	6.17E+01	0.00E+00	0.00E+00	5.46E+01	0.00E+00	0.00E+00	2.22E+01	3.60E+01	0.00E+00	1.21E+02	0.00E+00	-8.04E-01	4.79E+01	5.89E+01
PENRM	2.23E-01	3.73E-01	6.09E-02	0.00E+00	5.49E-01	0.00E+00	0.00E+00	1.69E+00	0.00E+00	0.00E+00	1.57E+00	1.72E-01	0.00E+00	1.78E+00	0.00E+00	0.00E+00	1.57E+00	2.18E-01
PENRT	0.00E+00	5.53E+01	0.00E+00	0.00E+00	6.22E+01	0.00E+00	0.00E+00	5.64E+01	0.00E+00	0.00E+00	2.38E+01	3.61E+01	0.00E+00	1.23E+02	0.00E+00	-8.05E-01	4.95E+01	5.91E+01
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	0.00E+00	3.06E-02	0.00E+00	0.00E+00	4.04E-02	0.00E+00	0.00E+00	3.12E-02	0.00E+00	0.00E+00	1.32E-02	1.98E-02	0.00E+00	8.10E-02	0.00E+00	0.00E+00	2.43E-02	5.95E-02
HWD	0.00E+00	4.00E-04	0.00E+00	0.00E+00	1.40E-03	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	2.00E-04	3.00E-04	0.00E+00	5.00E-04	0.00E+00	-3.00E-06	2.00E-04	2.00E-04
N-HWD	0.00E+00	4.26E-01	0.00E+00	0.00E+00	4.21E-01	0.00E+00	0.00E+00	4.23E-01	0.00E+00	0.00E+00	2.04E-01	2.44E-01	0.00E+00	9.58E-01	0.00E+00	-6.10E-03	4.04E-01	4.45E-01
RWD	0.00E+00	9.00E-05	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	9.00E-05	0.00E+00	0.00E+00	3.00E-05	7.00E-05	0.00E+00	2.00E-04	0.00E+00	-1.00E-06	7.00E-05	1.00E-04
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFER	0.00E+00	1.52E-02	0.00E+00	0.00E+00	1.51E-02	0.00E+00	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.58E-02	-3.00E-04	0.00E+00	1.59E-02	0.00E+00	0.00E+00	1.57E-02	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 8. Extrapolation factors for distribution stage – spare parts

	FLN-K			PF			PRN-K			PTN-K			PRN-X			PTN-X		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	8.09E-01	0.00E+00	0.00E+00	8.10E-01	0.00E+00	0.00E+00	8.04E-01	0.00E+00	0.00E+00	7.43E-01	0.00E+00	0.00E+00	8.05E-01	0.00E+00	0.00E+00	7.46E-01	0.00E+00
GWP - fossil	0.00E+00	8.08E-01	0.00E+00	0.00E+00	8.09E-01	0.00E+00	0.00E+00	8.04E-01	0.00E+00	0.00E+00	7.42E-01	0.00E+00	0.00E+00	8.04E-01	0.00E+00	0.00E+00	7.45E-01	0.00E+00
GWP - biogenic	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00	0.00E+00	2.00E-05	0.00E+00
GWP - luluc	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	3.00E-04	0.00E+00
ODP	0.00E+00	1.00E-08	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	1.00E-08	0.00E+00	0.00E+00	1.00E-08	0.00E+00
AP	0.00E+00	1.58E-02	0.00E+00	0.00E+00	1.58E-02	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	1.45E-02	0.00E+00	0.00E+00	1.57E-02	0.00E+00	0.00E+00	1.46E-02	0.00E+00
EP - freshwater	0.00E+00	4.00E-05	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	3.00E-05	0.00E+00	0.00E+00	4.00E-05	0.00E+00	0.00E+00	3.00E-05	0.00E+00
EP - marine	0.00E+00	3.90E-03	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	3.60E-03	0.00E+00	0.00E+00	3.90E-03	0.00E+00	0.00E+00	3.60E-03	0.00E+00
EP - terrestrial	0.00E+00	4.37E-02	0.00E+00	0.00E+00	4.37E-02	0.00E+00	0.00E+00	4.34E-02	0.00E+00	0.00E+00	4.01E-02	0.00E+00	0.00E+00	4.35E-02	0.00E+00	0.00E+00	4.03E-02	0.00E+00
POCP	0.00E+00	1.25E-02	0.00E+00	0.00E+00	1.25E-02	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	1.14E-02	0.00E+00	0.00E+00	1.24E-02	0.00E+00	0.00E+00	1.15E-02	0.00E+00
ADP - minerals&metals	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.00E-06	0.00E+00	0.00E+00	1.00E-06	0.00E+00
ADP - fossil	0.00E+00	6.24E-01	0.00E+00	0.00E+00	6.25E-01	0.00E+00	0.00E+00	6.21E-01	0.00E+00	0.00E+00	5.73E-01	0.00E+00	0.00E+00	6.21E-01	0.00E+00	0.00E+00	5.76E-01	0.00E+00
WDP	0.00E+00	3.43E-02	0.00E+00	0.00E+00	3.44E-02	0.00E+00	0.00E+00	3.42E-02	0.00E+00	0.00E+00	3.15E-02	0.00E+00	0.00E+00	3.42E-02	0.00E+00	0.00E+00	3.17E-02	0.00E+00
PERE	0.00E+00	1.08E-01	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	9.96E-02	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	1.00E-01	0.00E+00
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	0.00E+00	1.08E-01	0.00E+00	0.00E+00	1.09E-01	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	9.96E-02	0.00E+00	0.00E+00	1.08E-01	0.00E+00	0.00E+00	1.00E-01	0.00E+00
PENRE	0.00E+00	1.04E+01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	9.57E+00	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	9.60E+00	0.00E+00
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	0.00E+00	1.04E+01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	9.57E+00	0.00E+00	0.00E+00	1.04E+01	0.00E+00	0.00E+00	9.60E+00	0.00E+00
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.00E-03	0.00E+00	0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.00E-03	0.00E+00
HWD	0.00E+00	6.00E-05	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	5.00E-05	0.00E+00	0.00E+00	6.00E-05	0.00E+00	0.00E+00	5.00E-05	0.00E+00
N-HWD	0.00E+00	3.61E-01	0.00E+00	0.00E+00	3.62E-01	0.00E+00	0.00E+00	3.59E-01	0.00E+00	0.00E+00	3.32E-01	0.00E+00	0.00E+00	3.59E-01	0.00E+00	0.00E+00	3.33E-01	0.00E+00
RWD	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.00E-06	0.00E+00	0.00E+00	2.00E-06	0.00E+00
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 9. Extrapolation factors for installation stage – spare parts

	FLN-K			PF			PRN-K			PTN-K			PRN-X			PTN-X		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	7.70E-03	-2.40E-03	2.10E-03	0.00E+00	3.50E-03	1.10E-03	0.00E+00	3.94E-02	3.80E-03	0.00E+00	3.57E-02	-1.24E-02	0.00E+00	3.98E-02	0.00E+00	0.00E+00	3.59E-02	-1.29E-02
GWP - fossil	2.00E-04	-7.00E-05	6.00E-05	0.00E+00	1.00E-04	3.00E-05	0.00E+00	1.10E-03	1.00E-04	0.00E+00	1.00E-03	-3.00E-04	0.00E+00	1.10E-03	0.00E+00	0.00E+00	1.00E-03	-4.00E-04
GWP - biogenic	7.50E-03	-2.30E-03	2.00E-03	0.00E+00	3.40E-03	1.10E-03	0.00E+00	3.83E-02	3.70E-03	0.00E+00	3.47E-02	-1.21E-02	0.00E+00	3.87E-02	0.00E+00	0.00E+00	3.49E-02	-1.26E-02
GWP - luluc	6.00E-08	-2.00E-08	2.00E-08	0.00E+00	3.00E-08	9.00E-09	0.00E+00	3.00E-07	3.00E-08	0.00E+00	3.00E-07	-1.00E-07	0.00E+00	3.00E-07	0.00E+00	0.00E+00	3.00E-07	-1.00E-07
ODP	3.00E-12	9.00E-13	8.00E-13	0.00E+00	1.00E-12	4.00E-13	0.00E+00	1.00E-11	1.00E-12	0.00E+00	1.00E-11	-5.00E-12	0.00E+00	2.00E-11	0.00E+00	0.00E+00	1.00E-11	-5.00E-12
AP	1.00E-06	-4.00E-07	4.00E-07	0.00E+00	7.00E-07	2.00E-07	0.00E+00	7.00E-06	7.00E-07	0.00E+00	7.00E-06	-2.00E-06	0.00E+00	7.00E-06	0.00E+00	0.00E+00	7.00E-06	-2.00E-06
EP - freshwater	2.00E-08	-7.00E-09	6.00E-09	0.00E+00	1.00E-08	3.00E-09	0.00E+00	1.00E-07	1.00E-08	0.00E+00	1.00E-07	-4.00E-08	0.00E+00	1.00E-07	0.00E+00	0.00E+00	1.00E-07	-4.00E-08
EP - marine	7.00E-07	-2.00E-07	2.00E-07	0.00E+00	3.00E-07	1.00E-07	0.00E+00	4.00E-06	3.00E-07	0.00E+00	3.00E-06	-1.00E-06	0.00E+00	4.00E-06	0.00E+00	0.00E+00	3.00E-06	-1.00E-06
EP - terrestrial	6.00E-06	-2.00E-06	2.00E-06	0.00E+00	3.00E-06	9.00E-07	0.00E+00	3.00E-05	3.00E-06	0.00E+00	3.00E-05	-1.00E-05	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.00E-05	-1.00E-05
POCP	2.00E-06	-5.00E-07	5.00E-07	0.00E+00	8.00E-07	2.00E-07	0.00E+00	9.00E-06	8.00E-07	0.00E+00	8.00E-06	-3.00E-06	0.00E+00	9.00E-06	0.00E+00	0.00E+00	8.00E-06	-3.00E-06
ADP - minerals&metals	4.00E-10	-1.00E-10	1.00E-10	0.00E+00	2.00E-10	6.00E-11	0.00E+00	2.00E-09	2.00E-10	0.00E+00	2.00E-09	-7.00E-10	0.00E+00	2.00E-09	0.00E+00	0.00E+00	2.00E-09	-7.00E-10
ADP - fossil	4.00E-04	-1.00E-04	9.00E-05	0.00E+00	2.00E-04	5.00E-05	0.00E+00	1.80E-03	2.00E-04	0.00E+00	1.60E-03	-6.00E-04	0.00E+00	1.80E-03	0.00E+00	0.00E+00	1.60E-03	-6.00E-04
WDP	2.00E-04	-5.00E-05	4.00E-05	0.00E+00	7.00E-05	2.00E-05	0.00E+00	8.00E-04	8.00E-05	0.00E+00	8.00E-04	-3.00E-04	0.00E+00	8.00E-04	0.00E+00	0.00E+00	8.00E-04	-3.00E-04
PERE	5.00E-05	-2.00E-05	1.00E-05	0.00E+00	2.00E-05	8.00E-06	0.00E+00	3.00E-04	3.00E-05	0.00E+00	2.00E-04	-8.00E-05	0.00E+00	3.00E-04	0.00E+00	0.00E+00	2.00E-04	-9.00E-05
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	5.00E-05	-2.00E-05	1.00E-05	0.00E+00	2.00E-05	8.00E-06	0.00E+00	3.00E-04	3.00E-05	0.00E+00	2.00E-04	-8.00E-05	0.00E+00	3.00E-04	0.00E+00	0.00E+00	2.00E-04	-9.00E-05
PENRE	1.90E-03	-6.00E-04	5.00E-04	0.00E+00	9.00E-04	3.00E-04	0.00E+00	9.60E-03	9.00E-04	0.00E+00	8.70E-03	-3.00E-03	0.00E+00	9.70E-03	0.00E+00	0.00E+00	8.70E-03	-3.10E-03
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	1.90E-03	-6.00E-04	5.00E-04	0.00E+00	9.00E-04	3.00E-04	0.00E+00	9.60E-03	9.00E-04	0.00E+00	8.70E-03	-3.00E-03	0.00E+00	9.70E-03	0.00E+00	0.00E+00	8.70E-03	-3.10E-03
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	6.00E-06	-2.00E-06	2.00E-06	0.00E+00	3.00E-06	8.00E-07	0.00E+00	3.00E-05	3.00E-06	0.00E+00	3.00E-05	-9.00E-06	0.00E+00	3.00E-05	0.00E+00	0.00E+00	3.00E-05	-9.00E-06
HWD	2.00E-08	-6.00E-09	5.00E-09	0.00E+00	8.00E-09	3.00E-09	0.00E+00	9.00E-08	9.00E-09	0.00E+00	8.00E-08	-3.00E-08	0.00E+00	9.00E-08	0.00E+00	0.00E+00	8.00E-08	-3.00E-08
N-HWD	1.00E-04	-4.00E-05	3.00E-05	0.00E+00	6.00E-05	2.00E-05	0.00E+00	7.00E-04	6.00E-05	0.00E+00	6.00E-04	-2.00E-04	0.00E+00	7.00E-04	0.00E+00	0.00E+00	6.00E-04	-2.00E-04
RWD	7.00E-10	-2.00E-10	2.00E-10	0.00E+00	3.00E-10	1.00E-10	0.00E+00	4.00E-09	4.00E-10	0.00E+00	3.00E-09	-1.00E-09	0.00E+00	4.00E-09	0.00E+00	0.00E+00	3.00E-09	-1.00E-09
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 10. Extrapolation factors for end-of-life stage – spare parts

	FLN-K			PF			PRN-K			PTN-K			PRN-X			PTN-X		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	1.52E+00	0.00E+00	0.00E+00	1.52E+00	0.00E+00	0.00E+00	1.49E+00	0.00E+00	0.00E+00	1.36E+00	1.56E-01	0.00E+00	1.49E+00	0.00E+00	0.00E+00	1.36E+00	1.50E-01
GWP - fossil	0.00E+00	1.51E+00	0.00E+00	0.00E+00	1.52E+00	0.00E+00	0.00E+00	1.48E+00	0.00E+00	0.00E+00	1.36E+00	1.52E-01	0.00E+00	1.48E+00	0.00E+00	0.00E+00	1.36E+00	1.46E-01
GWP - biogenic	0.00E+00	4.30E-03	0.00E+00	0.00E+00	4.30E-03	0.00E+00	0.00E+00	4.20E-03	0.00E+00	0.00E+00	1.40E-03	2.20E-03	0.00E+00	4.20E-03	0.00E+00	0.00E+00	1.40E-03	2.20E-03
GWP - luluc	0.00E+00	9.00E-04	0.00E+00	0.00E+00	9.00E-04	0.00E+00	0.00E+00	8.00E-04	0.00E+00	0.00E+00	3.00E-04	4.00E-04	0.00E+00	8.00E-04	0.00E+00	0.00E+00	3.00E-04	4.00E-04
ODP	0.00E+00	9.00E-09	0.00E+00	0.00E+00	9.00E-09	0.00E+00	0.00E+00	9.00E-09	0.00E+00	0.00E+00	4.00E-09	4.00E-09	0.00E+00	9.00E-09	0.00E+00	0.00E+00	4.00E-09	4.00E-09
AP	0.00E+00	6.30E-03	0.00E+00	0.00E+00	6.30E-03	0.00E+00	0.00E+00	6.20E-03	0.00E+00	0.00E+00	2.30E-03	3.10E-03	0.00E+00	6.20E-03	0.00E+00	0.00E+00	2.30E-03	3.00E-03
EP - freshwater	0.00E+00	6.00E-04	0.00E+00	0.00E+00	6.00E-04	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	2.00E-04	3.00E-04	0.00E+00	5.00E-04	0.00E+00	0.00E+00	2.00E-04	3.00E-04
EP - marine	0.00E+00	1.60E-03	0.00E+00	0.00E+00	1.60E-03	0.00E+00	0.00E+00	1.50E-03	0.00E+00	0.00E+00	1.30E-03	3.00E-04	0.00E+00	1.50E-03	0.00E+00	0.00E+00	1.30E-03	2.00E-04
EP - terrestrial	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.38E-02	0.00E+00	0.00E+00	1.34E-02	0.00E+00	0.00E+00	5.60E-03	6.30E-03	0.00E+00	1.34E-02	0.00E+00	0.00E+00	5.70E-03	6.10E-03
POCP	0.00E+00	5.00E-03	0.00E+00	0.00E+00	5.00E-03	0.00E+00	0.00E+00	4.80E-03	0.00E+00	0.00E+00	2.00E-03	2.30E-03	0.00E+00	4.80E-03	0.00E+00	0.00E+00	2.10E-03	2.20E-03
ADP - minerals&metals	0.00E+00	5.00E-06	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	5.00E-06	0.00E+00	0.00E+00	2.00E-06	2.00E-06	0.00E+00	5.00E-06	0.00E+00	0.00E+00	2.00E-06	2.00E-06
ADP - fossil	0.00E+00	9.28E+00	0.00E+00	0.00E+00	9.31E+00	0.00E+00	0.00E+00	9.04E+00	0.00E+00	0.00E+00	2.91E+00	4.94E+00	0.00E+00	9.04E+00	0.00E+00	0.00E+00	3.01E+00	4.81E+00
WDP	0.00E+00	5.42E-01	0.00E+00	0.00E+00	5.44E-01	0.00E+00	0.00E+00	5.28E-01	0.00E+00	0.00E+00	1.39E-01	3.13E-01	0.00E+00	5.28E-01	0.00E+00	0.00E+00	1.45E-01	3.05E-01
PERE	0.00E+00	9.91E-01	0.00E+00	0.00E+00	9.94E-01	0.00E+00	0.00E+00	9.65E-01	0.00E+00	0.00E+00	3.17E-01	5.24E-01	0.00E+00	9.65E-01	0.00E+00	0.00E+00	3.27E-01	5.09E-01
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	0.00E+00	9.91E-01	0.00E+00	0.00E+00	9.94E-01	0.00E+00	0.00E+00	9.65E-01	0.00E+00	0.00E+00	3.17E-01	5.24E-01	0.00E+00	9.65E-01	0.00E+00	0.00E+00	3.27E-01	5.09E-01
PENRE	0.00E+00	1.62E+01	0.00E+00	0.00E+00	1.62E+01	0.00E+00	0.00E+00	1.58E+01	0.00E+00	0.00E+00	6.14E+00	7.79E+00	0.00E+00	1.58E+01	0.00E+00	0.00E+00	6.29E+00	7.57E+00
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	0.00E+00	1.62E+01	0.00E+00	0.00E+00	1.62E+01	0.00E+00	0.00E+00	1.58E+01	0.00E+00	0.00E+00	6.14E+00	7.79E+00	0.00E+00	1.58E+01	0.00E+00	0.00E+00	6.29E+00	7.57E+00
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	0.00E+00	1.76E-02	0.00E+00	0.00E+00	1.77E-02	0.00E+00	0.00E+00	1.72E-02	0.00E+00	0.00E+00	5.10E-03	9.80E-03	0.00E+00	1.72E-02	0.00E+00	0.00E+00	5.30E-03	9.50E-03
HWD	0.00E+00	7.00E-05	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05	0.00E+00	7.00E-05	0.00E+00	0.00E+00	3.00E-05	3.00E-05
N-HWD	0.00E+00	5.41E-01	0.00E+00	0.00E+00	5.43E-01	0.00E+00	0.00E+00	5.31E-01	0.00E+00	0.00E+00	6.11E-01	-8.07E-02	0.00E+00	5.32E-01	0.00E+00	0.00E+00	6.10E-01	-7.46E-02
RWD	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	1.00E-05	0.00E+00	0.00E+00	5.00E-06	8.00E-06	0.00E+00	1.00E-05	0.00E+00	0.00E+00	5.00E-06	7.00E-06
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	0.00E+00	7.96E-01	0.00E+00	0.00E+00	7.98E-01	0.00E+00	0.00E+00	7.75E-01	0.00E+00	0.00E+00	2.38E-01	4.34E-01	0.00E+00	7.75E-01	0.00E+00	0.00E+00	2.46E-01	4.22E-01
MFER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.00E-04	5.70E-03	2.60E-03	0.00E+00	3.89E-01	0.00E+00	2.10E-03	0.00E+00	0.00E+00	3.84E-01	-3.93E-01
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Table 11. Extrapolation factors for benefits stage – spare parts

	FLN-K			PRN-K			PTN-K			PRN-X			PTN-X		
	a	b	c	a	b	c	a	b	c	a	b	c	a	b	c
GWP - total	0.00E+00	-1.94E+00	0.00E+00	0.00E+00	-1.95E+00	0.00E+00	8.30E-03	-9.93E-01	-7.32E-01	0.00E+00	-4.86E+00	0.00E+00	3.19E-02	-1.95E+00	-2.32E+00
GWP - fossil	0.00E+00	-1.95E+00	0.00E+00	0.00E+00	-1.95E+00	0.00E+00	8.40E-03	-9.91E-01	-7.39E-01	0.00E+00	-4.83E+00	0.00E+00	3.17E-02	-1.94E+00	-2.31E+00
GWP - biogenic	0.00E+00	6.90E-03	0.00E+00	0.00E+00	6.90E-03	0.00E+00	0.00E+00	-2.50E-03	1.02E-02	0.00E+00	-3.29E-02	0.00E+00	2.00E-04	-1.38E-02	-1.52E-02
GWP - luluc	0.00E+00	-5.00E-04	0.00E+00	0.00E+00	-5.00E-04	0.00E+00	2.00E-06	-3.00E-04	-2.00E-04	0.00E+00	-3.10E-03	0.00E+00	2.00E-05	-1.10E-03	-1.60E-03
ODP	0.00E+00	-6.00E-09	0.00E+00	0.00E+00	-6.00E-09	0.00E+00	0.00E+00	1.00E-08	5.00E-09	0.00E+00	-3.00E-08	0.00E+00	1.00E-10	-2.00E-08	-9.00E-09
AP	0.00E+00	-6.40E-03	0.00E+00	0.00E+00	-6.40E-03	0.00E+00	0.00E+00	5.80E-03	-4.00E-04	0.00E+00	-2.42E-02	0.00E+00	1.00E-04	-1.16E-02	-1.00E-02
EP - freshwater	0.00E+00	-6.00E-04	0.00E+00	0.00E+00	-6.00E-04	0.00E+00	4.00E-06	-2.00E-04	-3.00E-04	0.00E+00	-1.50E-03	0.00E+00	1.00E-05	-5.00E-04	-8.00E-04
EP - marine	0.00E+00	-1.50E-03	0.00E+00	0.00E+00	-1.50E-03	0.00E+00	3.00E-06	-1.10E-03	-3.00E-04	0.00E+00	-4.50E-03	0.00E+00	3.00E-05	-2.10E-03	-1.90E-03
EP - terrestrial	0.00E+00	-1.58E-02	0.00E+00	0.00E+00	-1.59E-02	0.00E+00	0.00E+00	-1.22E-02	-3.60E-03	0.00E+00	-4.76E-02	0.00E+00	3.00E-04	-2.29E-02	-1.97E-02
POCP	0.00E+00	-5.40E-03	0.00E+00	0.00E+00	-5.20E-03	0.00E+00	0.00E+00	-3.60E-03	-1.80E-03	0.00E+00	-1.50E-02	0.00E+00	9.00E-05	-6.90E-05	-6.40E-03
ADP - minerals&metals	0.00E+00	-1.00E-06	0.00E+00	0.00E+00	-1.00E-06	0.00E+00	0.00E+00	-3.00E-06	2.00E-06	0.00E+00	1.00E-04	0.00E+00	7.00E-07	-3.00E-05	-5.00E-05
ADP - fossil	0.00E+00	-1.40E+01	0.00E+00	0.00E+00	-1.41E+01	0.00E+00	8.20E-02	-4.82E+00	-7.19E+00	0.00E+00	-3.22E+01	0.00E+00	2.34E-01	-1.08E+01	-1.71E+01
WDP	0.00E+00	-3.31E-01	0.00E+00	0.00E+00	-3.32E-01	0.00E+00	1.20E-03	-1.90E-01	-1.08E-01	0.00E+00	-1.23E+00	0.00E+00	8.20E-03	-4.81E-01	-5.99E-01
PERE	0.00E+00	-5.06E-01	0.00E+00	0.00E+00	-5.08E-01	0.00E+00	0.00E+00	-3.62E-01	-1.57E-01	0.00E+00	-9.98E+00	0.00E+00	7.21E-02	-3.39E+00	-5.26E+00
PERM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	0.00E+00	-5.06E-01	0.00E+00	0.00E+00	-5.08E-01	0.00E+00	0.00E+00	-3.62E-01	-1.57E-01	0.00E+00	-9.98E+00	0.00E+00	7.21E-02	-3.39E+00	-5.26E+00
PENRE	0.00E+00	-1.76E+01	0.00E+00	0.00E+00	-1.76E+01	0.00E+00	6.93E-02	-9.67E+00	-6.15E+00	0.00E+00	-5.05E+01	0.00E+00	3.30E-01	-2.04E+01	-2.41E+01
PENRM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	0.00E+00	-1.76E+01	0.00E+00	0.00E+00	-1.76E+01	0.00E+00	6.93E-02	-9.67E+00	-6.15E+00	0.00E+00	-5.05E+01	0.00E+00	3.30E-01	-2.04E+01	-2.41E+01
SM	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	0.00E+00	-8.80E-03	0.00E+00	0.00E+00	-8.90E-03	0.00E+00	0.00E+00	-4.80E-03	-4.20E-03	0.00E+00	-3.36E-02	0.00E+00	2.00E-04	-1.13E-02	-1.62E-02
HWD	0.00E+00	-2.00E-04	0.00E+00	0.00E+00	-2.00E-04	0.00E+00	9.00E-07	-7.00E-05	-8.00E-05	0.00E+00	-2.00E-04	0.00E+00	1.00E-06	-8.00E-05	-8.00E-05
N-HWD	0.00E+00	-8.59E-02	0.00E+00	0.00E+00	-8.62E-02	0.00E+00	0.00E+00	-4.53E-02	-4.22E-02	0.00E+00	-3.51E-01	0.00E+00	2.40E-03	-1.136E-01	-1.72E-01
RWD	0.00E+00	-6.00E-06	0.00E+00	0.00E+00	-6.00E-06	0.00E+00	0.00E+00	-6.00E-06	-6.00E-07	0.00E+00	-6.00E-05	0.00E+00	4.00E-07	-2.00E-05	-3.00E-05
Cfru	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, product	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic C, packaging	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Glossary

Environmental impact Indicators	
GWP-total	Global Warming Potential total (Climate hange)
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 reachin marine end compartment
EP-terrestrial	Eutrophication potential - Accumulated Exceedance
POCP	Formation potential of tropospheric ozone
ADP-m&m	Abiotic Depletion for non-fossil resources potential
ADP-fossil	Abiotic Depletion for fossil resources potential, WDP
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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