

CONDUIT BODIES AND FITTINGS

# PEP ecopassport®

## Carlton Fittings E986J



Product Environmental Profile - PEP Ecopassport.  
Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"

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# 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.



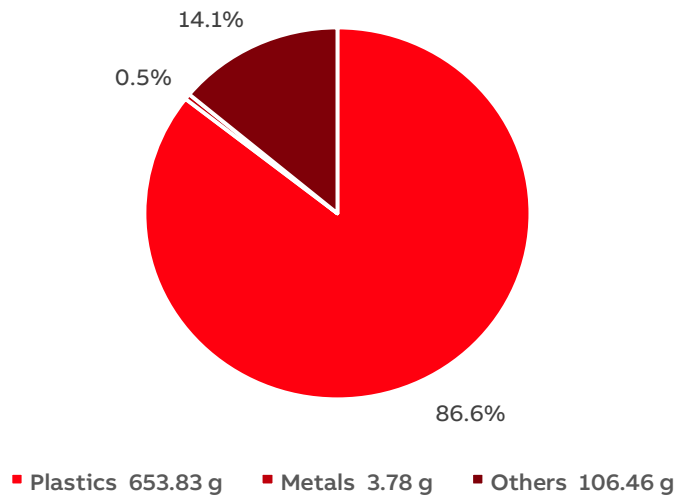
## General Information

<b>Reference product</b>	E986J Catalog description: Conduit bodies and fittings for use with Schedule 40 and 80 conduit PSR product category: Cable Management Solutions PSR product family: Other cable management products Standards: EN 50085-1 and EN 50085-2-1
<b>Description of the product</b>	Non-metallic elbows and fittings for electrical wires and cable systems.
<b>Functional unit</b>	1 Unit accomodating and protecting the wiring along 1 metre for a Reference Service Life of the product of 20 years.
<b>Other products covered</b>	The PL-232 Carlon conduit bodies and fittings types E, C, LR, T, LL covered in this EPD are each offered in 5 size varieties. In total, the Carlon conduit bodies and fittings series covered in this EPD contains 30 unique product catalog numbers.

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# Constituent Materials



**Total weight of Reference product with packaging**

755

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%
PVC Body	73.0	Stainless steel (screws)	0.5	Cardboard	7.0
PVC Cover	13.0	ñ	x	Paper adhesive	0.1
Foam (on cover)	0.4	ñ	x	Pallet (wood)	7.0
LDPE film (packaging)	0.2	ñ	x	ñ	x

RoHS and REACH compatibility and other information about the products materials (i.e. halogen free, recyclability)

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## Additional Environmental Information

<b>Manufacturing</b>	Carlton fittings are manufactured via injection moulding for PVC components and foam in place machining for foam components. Screws are cold headed and threaded.
<b>Distribution</b>	Distribution scenario has been modelled considering ABB average market for the product. Carlton fittings product family delivery scenario includes truck, train and ship transportaiton scenarios.
<b>Installation</b>	The installation of conduit bodies and fittings around the cabling systems is performed manually, no environmental burdens are associated to this phase besides the disposal or recycling of the product packaging.
<b>Use</b>	No maintenance operations needed during product lifetime.
<b>End of life</b>	Due to lack of data around customer disposal methodology, landfill disposal is the assumed standard scenario
<b>Benefits and loads beyond the system boundaries</b>	Not considered or evaluated.

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# Environmental Impacts

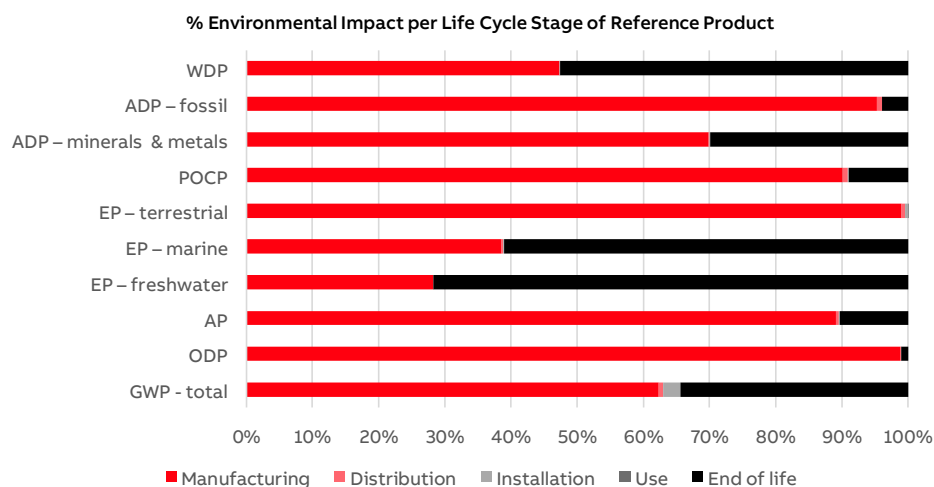
Reference lifetime	20 years
Product category	Cable Management Solutions
Installation elements	No installation materials or energy
Use scenario	No energy or water in use scenario
Geographical representativeness	North America
Technological representativeness	Represents the PL-232 Carlon fittings and conduit bodies types E, C, LR, T, LL.
Software and database used	SimaPro 9.6.0.1, ecoinvent 3.10

## Energy model used

Manufacturing	ecoinvent 3.10, US-SERC
Installation	ecoinvent 3.10
Use	ecoinvent 3.10
End of life	ecoinvent 3.10

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## Common base of mandatory indicators



### Environmental impact indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Benefits
<b>GWP-total</b>	kg CO <sub>2</sub> eq.	3.98E+00	2.49E+00	2.82E-02	1.06E-01	0.00E+00	1.37E+00	0.00E+00
<b>GWP-fossil</b>	kg CO <sub>2</sub> eq.	0.00E+00	-8.79E-02	3.66E-06	1.01E-01	0.00E+00	-1.27E-02	0.00E+00
<b>GWP-biogenic</b>	kg CO <sub>2</sub> eq.	3.98E+00	2.57E+00	2.82E-02	4.91E-03	0.00E+00	1.37E+00	0.00E+00
<b>GWP-luluc</b>	kg CO <sub>2</sub> eq.	1.64E-03	1.52E-03	9.47E-07	2.39E-07	0.00E+00	1.18E-04	0.00E+00
GWP-fossil = Global Warming Potential fossil fuels GWP-biogenic = Global Warming Potential biogenic GWP-luluc = Global Warming Potential land use and land use change								
<b>ODP</b>	kg CFC-11 eq.	5.98E-07	5.92E-07	4.23E-10	2.00E-11	0.00E+00	6.22E-09	0.00E+00
ODP = Depletion potential of the stratospheric ozone layer								
<b>AP</b>	H+ eq.	8.83E-03	7.87E-03	3.98E-05	1.42E-05	0.00E+00	9.11E-04	0.00E+00
AP = Acidification potential, Accumulated Exceedance								
<b>EP-freshwater</b>	kg P eq.	3.30E-04	9.32E-05	7.04E-08	1.12E-08	0.00E+00	2.37E-04	0.00E+00
<b>EP-marine</b>	kg N eq.	4.23E-03	1.63E-03	8.19E-06	6.66E-06	0.00E+00	2.58E-03	0.00E+00
<b>EP-terrestrial</b>	mol N eq.	1.74E-02	1.72E-02	8.99E-05	6.94E-05	0.00E+00	4.19E-06	0.00E+00
EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment EP-terrestrial = Eutrophication potential, Accumulated Exceedance								
<b>POCP</b>	kg NMVOC eq.	9.21E-03	8.30E-03	6.40E-05	1.72E-05	0.00E+00	8.24E-04	0.00E+00
POCP = Formation potential of tropospheric ozone								
<b>ADP-minerals &amp; metals</b>	kg Sb eq.	1.18E-06	8.28E-07	1.72E-09	6.86E-10	0.00E+00	3.54E-07	0.00E+00
<b>ADP-fossil</b>	MJ	5.26E+01	5.01E+01	3.90E-01	9.76E-03	0.00E+00	2.08E+00	0.00E+00
ADP-minerals & metals = Abiotic depletion potential for non-fossil resources ADP-fossil = Abiotic depletion for fossil resources potential								
<b>WDP</b>	m <sup>3</sup> eq. depr.	2.09E+00	9.90E-01	3.53E-04	1.41E-03	0.00E+00	1.10E+00	0.00E+00
WDP = Water Deprivation potential								
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## Common base of mandatory indicators

### Inventory flows indicator – Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
PERE	MJ	5.73E+01	5.46E+01	4.15E-01	1.08E-02	0.00E+00	2.31E+00	0.00E+00
PERM	MJ	4.82E-01	9.64E-01	0.00E+00	-4.82E-01	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	5.78E+01	5.55E+01	4.15E-01	-4.71E-01	0.00E+00	2.31E+00	0.00E+00
PENRE	MJ	5.64E+01	5.37E+01	4.15E-01	1.07E-02	0.00E+00	2.22E+00	0.00E+00
PENRM	MJ	3.62E+00	1.77E+01	0.00E+00	8.58E-01	0.00E+00	-1.49E+01	0.00E+00
PENRT	MJ	6.00E+01	7.14E+01	4.15E-01	8.69E-01	0.00E+00	-1.27E+01	0.00E+00

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials  
 PERM = Use of renewable primary energy resources used as raw materials  
 PERT = Total Use of renewable primary energy resources  
 PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials  
 PENRM = Use of non-renewable primary energy resources used as raw materials  
 PENRT = Total Use of non-renewable primary energy resources

### Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy resources

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
SM	kg	2.54E-02	2.54E-02	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	1.57E+00	1.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m <sup>3</sup>	1.33E+01	1.16E+01	4.15E-03	2.53E-03	0.00E+00	1.67E+00	0.00E+00

SM = Use of secondary material  
 RSF = Use of renewable secondary fuels  
 NRSF = Use of non-renewable secondary fuels  
 FW = Use of net fresh water

### Inventory flows indicator – Waste category indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non- hazardous waste disposed	kg	8.31E-01	1.01E-01	0.00E+00	7.86E-02	0.00E+00	6.51E-01	0.00E+00
Radioactive waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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## Common base of mandatory indicators

### Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

### Inventory flow indicator – other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Biogenic carbon content of the product	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg of C	5.41E-02	5.41E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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## Optional indicators

### Environmental indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Emissions of fine particles	incidence of diseases	9.02E-08	8.03E-08	2.22E-09	1.11E-10	0.00E+00	7.50E-09	0.00E+00
Ionizing radiation, human health	kBq U235 eq.	1.33E-01	1.30E-01	2.67E-05	5.58E-06	0.00E+00	3.00E-03	0.00E+00
Ecotoxicity (fresh water)	CTUe	1.86E+02	4.23E+01	5.41E-02	1.44E-01	0.00E+00	1.44E+02	0.00E+00
Human toxicity, car-cinogenic effects	CTUh	9.73E-09	8.70E-09	4.71E-12	1.16E-11	0.00E+00	1.01E-09	0.00E+00
Human toxicity, non-carcinogenic effects	CTUh	3.66E-08	2.38E-08	4.83E-10	3.64E-10	0.00E+00	1.20E-08	0.00E+00
Impact related to land use/soil quality		1.55E+01	1.49E+01	1.56E-03	1.20E-03	0.00E+00	6.14E-01	0.00E+00

### Other indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
No Other indicators used								

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## Extrapolation Factors

Two identified parameters allow to identify a linear dependency between dependency between impacts and product features. Therefore, linear interpolation has been performed to estimate the relations among products in the same family.

Overview of representative products and parameters

Product Family	Reference product for which PEP results are reported	Parameter Manufacturing and End-of-Life	Parameter Distribution	Parameter Installation
E986J	E986J	Product Weight	Total Weight	Packaging Weight

An overview of selected models and reference nominal parameters is reported below.

List of reference parameters for interpolation

Product	Product Type	Product Weight (kg)	Packaging Weight (kg)	Total Weight (kg)
E986D	LB	0.0885	0.0233	0.1119
E986E	LB	0.1328	0.0233	0.1561
E986F	LB	0.1771	0.0233	0.2004
E986G	LB	0.3826	0.0590	0.4417
E986JH	LB	0.6513	0.1041	0.7554
E986J	LB	0.6513	0.1041	0.7554
E988D	E	0.6513	0.1041	0.7554
E988E	E	0.1735	0.0252	0.1986
E988F	E	0.1771	0.0233	0.2004
E988G	E	0.1771	0.0233	0.2004
E988H	E	0.5170	0.0816	0.5985
E988J	E	0.6513	0.1041	0.7554
E987D	C	0.0885	0.0233	0.1119
E987E-CAR	C	0.1328	0.0233	0.1561
E987F-CAR	C	0.1771	0.0233	0.2004
E987G	C	0.3826	0.0590	0.4417
E987H	C	0.3524	0.0810	0.4334
E987J	C	0.6513	0.1041	0.7554
E985D-CAR	LR	0.0885	0.0233	0.1119
E985E-CAR	LR	0.1328	0.0233	0.1561
E985F	LR	0.1679	0.0254	0.1933
E985G	LR	0.3826	0.0590	0.4417
E985H-CAR	LR	0.5170	0.0816	0.5985
E985J	LR	0.6372	0.5618	1.1990
E983D-CAR	T	0.0856	0.0201	0.1057
E983E	T	0.2099	0.0336	0.2434
E983F	T	0.2171	0.0233	0.2404

Product	Product Type	Product Weight (kg)	Packaging Weight (kg)	Total Weight (kg)
E983G	T	0.4226	0.0590	0.4817
E983H	T	0.4420	0.0553	0.4973
E983J	T	0.7213	0.5618	1.2831
E984D-CAR	LL	0.0556	0.0201	0.0757
E984E	LL	0.1499	0.0336	0.1834
E984F-CAR	LL	0.1679	0.0254	0.1933
E984G-CAR	LL	0.3826	0.0590	0.4417
E984H	LL	0.3720	0.0553	0.4273
E984J	LL	0.6513	0.1041	0.7554

These extrapolation rules allow to pass from impacts reported in the PEP associated to a reference product to impacts associated to different products in the same family, providing the reference parameter.

For the investigated category the equation linking impacts among products is defined as

$$y = ax + b$$

Where:

y is the generic environmental impact category x is the nominal value of reference parameter

a and b are coefficients computed starting from the assumption about the existence of linear dependency between impacts and product features

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	Units	Manufacturing		Distribution		Installation		Use	End of life	
		a	b	a	b	a	b	N/A	a	b
Climate change - Total	kg CO2 eq	3.86E+00	-6.90E-03	3.74E-02	-4.00E-10	1.06E+00	-2.50E-03	0.00E+00	2.12E+00	-1.25E-02
Climate change - Biogenic	kg CO2 eq	-8.28E-02	-6.57E-02	5.00E-06	4.00E-14	1.01E+00	-2.80E-03	0.00E+00	-1.25E-02	7.50E-03
Climate change - Fossil	kg CO2 eq	3.94E+00	5.85E-02	3.74E-02	8.00E-11	4.19E-02	3.00E-04	0.00E+00	2.12E+00	-1.25E-02
Climate change - Land use and LU change	kg CO2 eq	2.30E-03	3.00E-04	1.00E-06	-6.00E-15	3.00E-06	-2.00E-08	0.00E+00	-1.25E-02	-1.00E-06
Ozone Depletion	kg CFC11 eq	9.00E-07	-4.00E-09	6.00E-10	1.00E-18	2.00E-10	-1.00E-12	0.00E+00	1.00E-08	-8.00E-11
Acidification Potential	mol H+ eq	1.19E-02	3.00E-04	5.00E-05	6.00E-13	1.00E-04	-7.00E-07	0.00E+00	4.00E-04	1.40E-03
Eutrophication, freshwater	kg P eq	1.00E-04	5.00E-06	9.00E-08	5.00E-16	1.00E-07	-7.00E-10	0.00E+00	1.00E-05	-3.00E-07
Eutrophication, marine	kg N eq	2.50E-03	1.00E-04	1.00E-05	6.00E-15	7.00E-05	-3.00E-07	0.00E+00	4.00E-03	-7.00E-06
Eutrophication, terrestrial	mol N eq	2.63E-02	9.00E-04	1.00E-04	5.00E-13	7.00E-04	-3.00E-06	0.00E+00	6.00E-06	-5.00E-08
Photochemical ozone formation	kg eq. NMVOC	1.27E-02	3.00E-04	1.69E-02	3.00E-04	2.00E-04	-7.00E-07	0.00E+00	1.30E-03	1.30E-03
ADP - minerals & metals	kg Sb eq	1.00E-06	2.00E-07	2.00E-09	3.00E-18	7.00E-09	-5.00E-11	0.00E+00	5.00E-07	-5.00E-09
ADP - fossil	MJ	7.67E+01	6.88E-01	5.17E-01	4.00E-10	1.03E-01	-5.00E-04	0.00E+00	3.23E+00	3.23E+00
Water Deprivation potential	m3 depriv.	5.11E-01	1.10E-02	5.00E-04	6.00E-12	1.57E-02	-1.00E-04	0.00E+00	3.23E+00	-1.45E-02
Emission of fine particles	disease inc.	1.00E-07	8.00E-09	3.00E-09	1.00E-18	1.00E-09	-4.00E-12	0.00E+00	1.00E-08	-7.00E-11
Ionizing radiation, human health	kBq U-235 eq	2.00E-01	2.20E-03	4.00E-05	-6.00E-14	6.00E-05	-5.00E-07	0.00E+00	4.70E-03	-4.00E-05
Ecotoxicity (fresh water)	CTUe	6.14E+01	2.49E+00	7.16E-02	-4.00E-12	1.64E+00	-1.42E-02	0.00E+00	2.23E+02	-1.90E+00
Human toxicity, carcinogenic effects	CTUh	9.00E-09	3.00E-09	6.00E-12	-9.00E-21	1.00E-10	-7.00E-13	0.00E+00	-1.90E+00	-1.00E-11
Human toxicity, non-carcinogenic effects	CTUh	4.00E-08	4.00E-09	6.00E-10	9.00E-19	4.00E-09	-2.00E-11	0.00E+00	2.00E-08	-1.00E-10
Impacts related to land use/soil quality	Pt	1.55E+01	7.18E+00	2.10E-03	-2.00E-12	1.30E-02	-8.00E-05	0.00E+00	9.51E-01	-7.70E-03
Use of renewable primary energy, excluding renewable energy resources used as raw materials	MJ	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Use of renewable primary energy resources used as raw materials	MJ	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00

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	Units	Manufacturing		Distribution		Installation		Use	End of life	
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable primary energy resources as raw materials	MJ	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Use of secondary materials	MJ	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Use of renewable secondary fuels	MJ	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Net freshwater use	m <sup>3</sup>	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed	kg	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Non-hazardous waste disposed	kg	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Radioactive waste disposed	kg	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Components for re-use	kg	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Materials for energy recovery	kg	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02
Biogenic carbon content of product	kg of C	2.48E+00	6.47E-02	0.00E+00	0.00E+00	-2.78E+00	-2.27E-02	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of packaging	kg of C	8.35E+01	-1.76E+00	5.49E-01	-4.00E-04	1.10E-01	-5.00E-04	0.00E+00	3.30E+00	-1.25E-02

## Environmental Impact Indicator Glossary


### Impact indicators

Indicator	Description	Distribution
Global warming potential (GWP) - total	Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change	kg CO <sub>2</sub> eq.
Ozone depletion (ODP)	Emissions to air that contribute to the destruction of the stratospheric ozone layer	kg CFC-11 eq.
Acidification of soil and water (A)	Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides	H+ eq.
Eutrophication (E)	Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial.	kg P eq., kg N eq., mole N eq.
Photochemical ozone creation (POCP)	Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun.	kg NMVOC eq.
Depletion of abiotic resources – elements (ADPe)	Indicator of the depletion of natural non-fossil resources	kg Sb eq.
Depletion of abiotic resources – fossil fuels (ADPf)	The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste)	MJ (lower heating value)
Water Deprivation potential (WDP)	Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived.	m <sup>3</sup> eq. depr.

### Resource use indicators

Indicator	Description	Distribution
Total use of primary energy	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials)	MJ (lower heating value)

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The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)			
PEP are compliant with XP C08-100-1 :2016 or EN 50693:2019 or NE E38-500 :2022 The components of the present PEP may not be compared with elements from any other program.			
Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"			

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