

DSX203NC DIFFERENTIAL CIRCUIT BREAKER

PEP ecopassport®

Product Environmental Profile





Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"

ORGANIZATION			CONTACT INFORMATION	CONTACT INFORMATION			
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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.

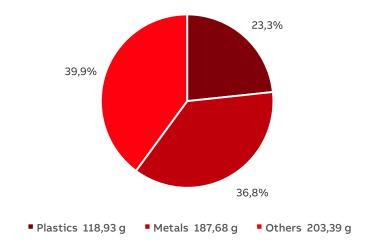


General Information

Reference product	DSX203NC B16 A30 - 2CSR256192R1165
Description of the product	The DSX203NC is a 3P+N residual current circuit breakers with overcurrent protection (RCBO); it has been designed for the protection against short-circuit currents, overload, earth fault currents, indirect contacts, additional protection against direct contacts.
Functional unit	The functional unit is designed to protect for 20 years the installation against overloads and short-circuits and people and premises at risk of fire or explosion against insulation defects in circuit with assigned voltage 230 V and rated current 16 A. This protection is ensured in accordance with the following parameters: - Number of poles 3P+N - Rated breaking capacity Icn 6kA - Tripping curve Cd type B - Sensitivity 30 mA - Type of differential protection A
Other products covered	DSX203NC homogeneous family: Beaking capacity up to 6kA 3+N Poles in 4 modules with 230V rated voltage B & C char from 6 up to 20 A Senstivity of 30mA type A

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Total weight of Reference product

g

Plastics as % of weight		weight	Others as % of weight		
Weight%	Name and CAS number	Weight%	Name and CAS number	Weight%	
17,9	STEEL	23,5	WOOD	24,8	
4,0	COPPER	8,8	GF	7,8	
1,2	BRASS	1,9	CARDBOARD	6,5	
0,2	ALUMINIUM	0,8	PAPER	0,3	
0,1	OTHER METALS	1,7	OTHERS	0,5	
	17,9 4,0 1,2 0,2	Weight% Name and CAS number 17,9 STEEL 4,0 COPPER 1,2 BRASS 0,2 ALUMINIUM	Weight% Name and CAS number 17,9 STEEL 23,5 4,0 COPPER 8,8 1,2 BRASS 1,9 0,2 ALUMINIUM 0,8	Weight% Name and CAS number 17,9 STEEL 23,5 WOOD 4,0 COPPER 8,8 GF 1,2 BRASS 1,9 CARDBOARD 0,2 ALUMINIUM 0,8 PAPER	

Total weight of the reference product is 349,8 and its packaging is 160,2g

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Additional Environmental Information

Manufacturing	Includes the environmental impacts associated with extraction and processing of the raw materials used to produce and assembly the product and its pacakging, distribution to the manufacturer's last logistic platform.
Distribution	Includes the transportation in its pacakging from the manufacturer's last logistic platform to the distributor.
Installation	Installation stage includes the installation of the products made manually and waste treatment of discarded materials.
Use	Energy consumption is calculated by following the PSR. The energy models used in this phase are the specific energy mixes based on ABB distribution. No maintenance is necessary.
End of life	Includes its removal, dismantling and transportation of the dismantled product to the treatment site and the treatment process. A value of 1000 km transport by lorry is used for the transportation.
Benefits and loads beyond the system boundaries	N/A

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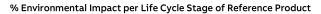


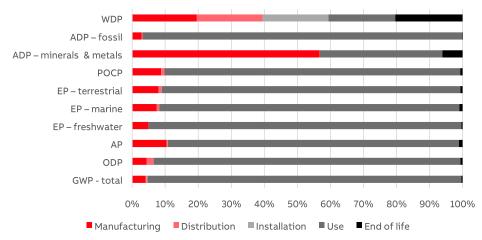
Environmental Impacts

Reference lifetime	20 years
Product category	Differential Circuit Breaker
Installation elements	Installation carried out manually. End of life of packaging.
Use scenario	Load time: 50% of rated current in continuous operation (In). Use time rate: 30% of reference lifetime (RLT).
Geographical representativeness	Europe
Technological representativeness	Materials and processes data are specific for the production of DSX203NC B16 A30 - 2CSR256192R1165 and its family
Software and database used	Simapro 9.4.0.2 and Ecoinvent v3.8
Energy model used	
Manufacturing	Electricity, medium voltage {IT} market for Cut-off, System_GO energy mix_ei 3.8 System
Installation	Manually done. Europe
Use	Electricity, low voltage {RER} market group for Cut-off, S
End of life	The energy-related processes used for the inputs of the end-of- life stage are those included in the ecoinvent d atasets selected for the analysis

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Common base of mandatory indicators





Environmental impact indicators

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Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene fits
GWP-total	kg CO ₂ eq.	2,12E+01	8,54E-01	9,06E-02	4,53E-02	2,02E+01	7,50E-02	NA
GWP-fossil	kg CO ₂ eq.	2,05E+01	8,52E-01	9,05E-02	5,26E-03	1,95E+01	7,20E-02	NA
GWP-biogenic	kg CO ₂ eq.	6,73E-01	1,48E-03	8,43E-05	4,00E-02	6,28E-01	2,94E-03	NA
GWP-luluc	kg CO ₂ eq.	4,69E-02	7,99E-04	3,52E-05	1,77E-06	4,60E-02	7,06E-05	NA
GWP-fossil = Global GWP-biogenic = Glob GWP-luluc = Global V	oal Warming Pot	ential bioge	enic	nge				
ODP	kg CFC-11 eq.	1,06E-06	4,66E-08	9,05E-02	5,26E-03	1,95E+01	7,20E-02	NA
ODP = Depletion pot	ential of the str	atospheric (ozone layer					
AP	H+ eq.	1,26E-01	1,31E-02	4,59E-04	2,22E-05	1,11E-01	1,43E-03	NA
AP = Acidification po	otential, Accumu	lated Excee	edance					
EP-freshwater	kg P eq.	2,07E-02	1,02E-03	5,84E-06	3,93E-07	1,96E-02	7,62E-05	NA
EP-marine	kg N eq.	2,04E-02	1,50E-03	1,58E-04	1,05E-05	1,85E-02	2,00E-04	NA
EP-terrestrial	mol N eq.	1,80E-01	1,43E-02	1,73E-03	8,36E-05	1,63E-01	1,27E-03	NA
EP-freshwater = Eut EP-marine = Eutroph EP-terrestrial = Eutro	nication potentia	al, fraction o	of nutrients reach	ing marine end		nent		
РОСР	kg NMVOC eq.	5,01E-02	4,39E-03	4,97E-04	2,48E-05	4,48E-02	3,76E-04	NA
POCP = Formation p	otential of tropo	spheric oz	one					
ADP-minerals & metals	kg Sb eq.	4,94E-04	2,80E-04	2,96E-07	1,63E-08	1,83E-04	3,02E-05	NA
ADP-fossil	МЈ	4,29E+02	1,21E+01	1,39E+00	5,93E-02	4,15E+02	8,84E-01	NA
ADP-minerals & meta ADP-fossil = Abiotic	'			il resources				
				9,80E+01	9,90E+01			

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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	МЈ	8,88E+01	3,19E+00	1,92E-02	1,04E-03	8,55E+01	1,14E-01	NA
PERM	МЈ	4,27E-01	4,27E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
PERT	МЈ	8,92E+01	3,61E+00	1,92E-02	1,04E-03	8,55E+01	1,14E-01	NA
PENRE	МЈ	4,28E+02	1,04E+01	1,39E+00	5,93E-02	4,15E+02	8,84E-01	NA
PENRM	МЈ	1,72E+00	1,72E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
PENRT	МЈ	4,29E+02	1,21E+01	1,39E+00	5,93E-02	4,15E+02	8,84E-01	NA

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	2,86E-06	2,86E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
RSF	МЈ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
NRSF	МЈ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
FW	m³	5,74E+00	9,40E-01	4,31E-03	2,67E-04	4,76E+00	3,22E-02	NA

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	4,82E-04	1,60E-04	3,57E-06	1,54E-07	3,16E-04	2,18E-06	NA
Non- hazardous waste disposed	kg	1,82E+00	1,97E-01	8,34E-02	6,77E-03	1,45E+00	8,73E-02	NA
Radioactive waste disposed	kg	3,09E-03	2,68E-05	9,39E-06	3,82E-07	3,05E-03	5,16E-06	NA

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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	NA
Materials for recycling	kg	1,22E-01	5,54E-02	0,00E+00	1,15E-02	0,00E+00	5,46E-02	NA
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA
Exported energy	MJ	1,01E-01	4,97E-02	0,00E+00	2,36E-02	0,00E+00	2,72E-02	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	NA
Biogenic carbon content of the associated packaging	kg of C	7,19E-02	7,19E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	NA

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Optional indicators

Environmental indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Installation	Use	End of life	Bene- fits
Total use of primary energy during the life cycle	МЈ	5,18E+02	5,18E+02	1,57E+01	1,41E+00	6,03E-02	9,98E-01	NA
Emissions of fine particles	incidence of diseases	4,30E-07	4,30E-07	6,09E-08	8,63E-09	3,78E-10	6,45E-09	NA
lonizing radiation, human health	kBq U235 eq.	1,15E+01	1,15E+01	7,00E-02	7,11E-03	3,02E-04	1,19E-02	NA
Ecotoxicity (fresh water)	CTUe	3,70E+02	3,70E+02	9,82E+01	1,08E+00	6,23E-02	7,54E+00	NA
Human toxicity, car-cinogenic effects	CTUh	1,35E-08	1,35E-08	3,91E-09	3,40E-11	3,24E-12	1,43E-09	NA
Human toxicity, non- carcinogenic effects	incidence of diseases	4,24E-07	4,24E-07	1,41E-07	1,15E-09	5,94E-11	2,38E-08	NA
Impact related to land use/soil quality		8,53E+01	8,53E+01	8,41E+00	1,08E+00	4,00E-02	7,92E-01	NA

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

For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by a linear correlation with respect to weight for the production, distribution, and end-of-life phase and with respect to average power loss for the use phase. Each environmental indicator value shall be calculated using the following formulas:

For the manufacturing stage, distribution stage and end-of-life stage:

$$y = a_n x_1 + b_n$$

where y is the considered impact at a specific stage and x_1 is the weight of the product.

For the use stage:

$$y = a_n x_2 + b_n$$

Where y is the considered impact at a specific stage and x_2 is the average **power loss** of the product.

The next tables report the linear coefficients $a_n \& b_n$ for each life cycle stage.

Note: The calculation of the coefficient $a_3 \& b_3$ for the Installation Stage was not performed because the selected parameters do not affect the values for this stage.

HADAGT CATEGORY	MANUF	ACTURING	DISTRI	BUTION	IN	ST.	U	SE	END C	F LIFE
IMPACT CATEGORY	aı	bı	az	bz	aı	bs	84	b4	as	bs
Climate change	7.44E-03	7.48E-02	6.83E-04	1.22E-01	1.00E+00	0.0E+00	2.12E+01	1.49E-01	6.79E-04	5.99E-03
Climate change - Fossil	7.36E-03	2.35E-01	6.82E-04	1.22E-01	1.00E+00	0.0E+00	2.04E+01	1.44E-01	6.54E-04	5.77E-03
Climate change - Biogenic	6.97E-05	-1.61E-01	6.35E-07	1.14E-04	1.00E+00	0.0E+00	6.59E-01	4.65E-03	2.40E-05	2.11E-04
Climate change - Land use and LU change	7.35E-06	5.10E-04	2.66E-07	4.75E-05	1.00E+00	0.0E+00	4.83E-02	3.41E-04	6.42E-07	5.67E-06
Ozone depletion	7.75E-09	8.96E-08	1.60E-10	2.86E-08	1.00E+00	0.0E+00	1.03E-06	7.27E-09	6.08E-11	5.37E-10
Acidification	1.32E-04	1.87E-03	3.46E-06	6.19E-04	1.00E+00	0.0E+00	1.16E-01	8.21E-04	1.40E-05	1.24E-04
Eutrophication, freshwater	1.01E-05	1.31E-04	4.40E-08	7.87E-06	1.00E+00	0.0E+00	2.06E-02	1.45E-04	7.40E-07	6.53E-06
Eutrophication, marine	1.27E-05	4.20E-04	1.19E-06	2.13E-04	1.00E+00	0.0E+00	1.94E-02	1.37E-04	1.88E-06	1.66E-05
Eutrophication, terrestrial	1.29E-04	3.48E-03	1.30E-05	2.33E-03	1.00E+00	0.0E+00	1.71E-01	1.21E-03	1.20E-05	1.06E-04
Photochemical ozone formation	3.82E-05	1.17E-03	3.75E-06	6.70E-04	1.00E+00	0.0E+00	4.70E-02	3.31E-04	3.55E-06	3.14E-05
Resource use, minerals and metals	2.83E-06	2.63E-05	2.23E-09	3.98E-07	1.00E+00	0.0E+00	1.92E-04	1.36E-06	3.03E-07	2.67E-06
Resource use, fossils	9.69E-02	3.68E+00	1.05E-02	1.87E+00	1.00E+00	0.0E+00	4.36E+02	3.07E+00	7.98E-03	7.04E-02
Water use (AWARE)	5.52E-03	4.46E-01	3.25E-05	5.81E-03	1.00E+00	0.0E+00	5.00E+00	3.53E-02	3.03E-04	2.67E-03
Total use of primary energy during the life cycle	1.07E-01	8.99E+00	1.06E-02	1.90E+00	1.00E+00	0.0E+00	5.25E+02	3.70E+00	9.04E-03	7.98E-02
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.02E-02	3.06E+00	1.45E-04	2.59E-02	1.00E+00	0.0E+00	8.97E+01	6.33E-01	1.06E-03	9.36E-03
Use of renewable primary energy resources used as raw materials	0.0E+00	2.26E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total use renew, primary energy res.	1.02E-02	5.31E+00	1.45E-04	2.59E-02	1.00E+00	0.0E+00	8.97E+01	6.33E-01	1.06E-03	9.36E-03
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	9.69E-02	-1.43E+00	1.05E-02	1.87E+00	1.00E+00	0.0E+00	4.35E+02	3.07E+00	7.98E-03	7.04E-02
Use of non-renewable primary energy resources used as raw materials	0.0E+00	5.11E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Total use non-renew. primary energy res.	9.69E-02	3.68E+00	1.05E-02	1.87E+00	1.00E+00	0.0E+00	4.35E+02	3.07E+00	7.98E-03	7.04E-02
Use of secondary material	1.48E-08	1.30E-07	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Use of renewable secondary fuels	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Use of non-renewable secondary fuels	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Net use of fresh water	1.42E-04	1.09E-02	1.18E-06	2.12E-04	1.00E+00	0.0E+00	3.79E-01	2.67E-03	9.33E-06	8.23E-05
Hazardous waste disposed	1.79E-06	2.20E-05	2.69E-08	4.81E-06	1.00E+00	0.0E+00	3.31E-04	2.34E-06	5.32E-08	4.69E-07
Non-hazardous waste disposed	1.64E-03	7.81E-02	6.28E-04	1.13E-01	1.00E+00	0.0E+00	1.52E+00	1.07E-02	7.92E-04	6.99E-03
Radioactive waste disposed	2.18E-07	9.50E-06	7.07E-08	1.27E-05	1.00E+00	0.0E+00	3.20E-03	2.26E-05	4.60E-08	4.06E-07

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BADACT CATECORY	MANUFA	ACTURING	DISTRIBUTION		INST.		USE		END C	F LIFE
IMPACT CATEGORY	aı	bı	B2	be	as	bs	a.	b4	as	bs
Particulate matter	5.70E-10	1.61E-08	6.50E-11	1.16E-08	1.00E+00	0.0E+00	3.71E-07	2.62E-09	5.87E-11	5.18E-10
lonising radiation	5.89E-04	1.85E-02	5.36E-05	9.59E-03	1.00E+00	0.0E+00	1.19E+01	8.41E-02	1.05E-04	9.31E-04
Ecotoxicity, freshwater	9.83E-01	1.12E+01	8.17E-03	1.46E+00	1.00E+00	0.0E+00	2.76E+02	1.94E+00	7.55E-02	6.66E-01
Human toxicity. cancer	3.63E-11	6.19E-10	2.57E-13	4.59E-11	1.00E+00	0.0E+00	8.48E-09	5.98E-11	1.20E-11	1.06E-10
Human toxicity, non-cancer	1.46E-09	1.51E-08	8.63E-12	1.54E-09	1.00E+00	0.0E+00	2.71E-07	1.91E-09	2.38E-10	2.10E-09
Land use	5.01E-02	1.81E+01	8.16E-03	1.46E+00	1.00E+00	0.0E+00	7.87E+01	5.55E-01	7.52E-03	6.64E-02
Component for reuse	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Materials for recycling	9.66E-05	5.55E-02	9.66E-05	5.55E-02	1.00E+00	0.0E+00	0.0E+00	0.0E+00	4.70E-04	4.14E-03
Materials for energy recovery	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.00E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
Exported energy	0.0E+00	4.97E-02	0.0E+00	4.97E-02	1.00E+00	0.0E+00	0.0E+00	0.0E+00	2.55E-04	2.25E-03

For the weight and average power loss data of the variants, please refer to table below.

ABB Code	Name	Tp = Type of differential protection	U = Rated voltage (V)	In = Rated current in continuous operation (A)	Rated breaking capacity [A]	Np = Number of protected poles	S = Sensitivity [mA]	Cd = Tripping curve	Weight of the product [g]	Average power loss [W] @50%In
2CSR256192R1065	DSX203NC 86 A30	A	230	6	6k	3P+N	30	В	361.46	1.59
2CSR256192R1105	D5X203NC B10 A30	A	230	10	6k	3P+N	30	В	364.34	1.48
2CSR256192R1135	DSX203NC B13 A30	A	230	13	6k	3P+N	30	В	364.34	1.48
2CSR256192R1165	DSX203NC B16 A30	A	230	16	6k	3P+N	30	В	360.40	2.52
2CSR256192R1205	DSX203NC 820 A30	A	230	20	6k	3P+N	30	В	363.90	2.45
2CSR256192R1064	DSX203NC C6 A30	A	230	6	6k	3P+N	30	С	361.46	1.59
2CSR256192R1104	DSX203NC C10 A30	A	230	10	6k	3P+N	30	c	364.34	1.48
2CSR256192R1134	DSX203NC C13 A30	A	230	13	6k	3P+N	30	С	364.34	1.48
2CSR256192R1164	D5X203NC C16 A30	A	230	16	6k	3P+N	30	С	360.40	2.52
2CSR256192R1204	D5X203NC C20 A30	A	230	20	6k	3P+N	30	С	363.90	2.45

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Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Distri- bution
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 CO₂ 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.	m³ eq. depr.

Resource use indicators

Indicator	Description	Distri- bution
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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