

2-GANG SCHUKO SOCKET OUTLET

Product Environmental Profile

Environmental Product Declaration





Document in compliance with ISO 14025: 2010 "Environmental labels and declarations. Type III environmental declarations'

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STATUS	SECURITY LEVEL	REGISTRATION NUMBER	REV.	LANG.	PAGE			
Approved	Public	ABBG-00095-V01.01-EN	1	en	1/13			



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.

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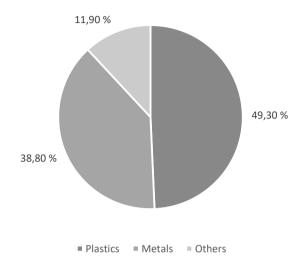


General Information

Reference product	2TKA000952G1 - 302EUJ-84
Description of the product	Flush mounted Impressivo Schuko 2-gang Socket oulet. There are therminals for each contact of the socket outlet for max 4 rigid wires. No X-terminals. The socket outlet insert without the cover plate is screen-prorected.
Functional unit	Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP21 in accordance with the standard IEC 60529.
Other products covered	The PEP covers other 2-gang socket outlets. The list of these can be seen in the extrapolation rules list on page 9-11.

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Total weight of Reference product

119,86 g including the product and its main packaging materials

Plastics as % of weight		Metals as % of weight		Others as % of weight		
Description	Weight-%	Description	Weight-%	Description	Weight-%	
Polycarbonate	38,80	Low-alloyed steel	19,50	Carton	11,90	
Polyamide 6 GF20	7,30	Brass alloy	17,00	-	-	
PP/PE film	2,50	Stainless steel	1,70	-	-	
Polyamide 66 GF30	0,70	Carbon steel	0,60	-	-	

The reference product and the other products in this range comply with the RoHS Directive 2011/65/EU (covering 2015/863 (EU)) and national legisation. The plastic materials used in products are also halogen free materials (IEC/61249-2-21) and recyclable.

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Additional Environmental Information

Manufacturing	Manufactured at ABB Oy, Wiring Accessories, ISO 14001 certified, production site, with renewable energy: Hydro- and wind power (50/50)
Distribution	Product distribution optimised by setting up local distribution centres. Packaging weight 17,3g, consisting of cardboard (82,6%) and plastic (17,4%).
Installation	The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials is accounted during the installation phase.
Use	The product does not require special maintanence operations
End of life	The product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovey channels.
Benefits and loads beyond the system boundaries	Net benefits and loads calculated according to PCR ed 4 and formulas given in Annex G of the EN 50693



Environmental impacts

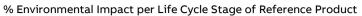
Reference lifetime	20 years
Product category	Power Sockets
Installation elements	No additional elements needed
Use scenario	Load rate: 50% of In Use rate: 50% of RLT
Geographical representativeness	Nordic countries and Europe
Technological representativeness	The main purpose of the Socket is to connect/disconnet the plug to load protecting the user from direct contact
Software and database used	Software: SimaPro version 9.4.0.2 Database: ecoinvent 3.8, Industry data 2.0, and ELCD

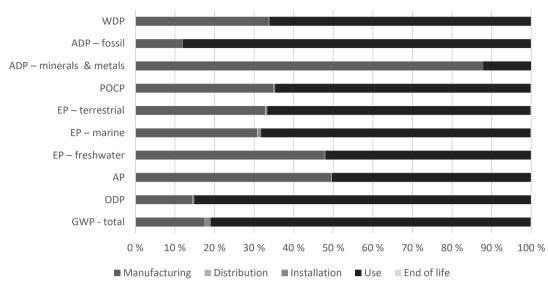
Energy model used

Manufacturing	Manufacturing plant: Porvoo, Finland
Installation	Electricity, low voltage {FI} market for Cut-off, S
Use	Electricity, low voltage {FI} market for Cut-off, S
End of life	Electricity, low voltage {FI} market for Cut-off, S

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Common base of mandatory indicators





Environmental impact indicators

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Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
GWP-total	kg CO₂ eq.	2,943E+00	5,150E-01	1,310E-03	4,338E-02	2,380E+00	3,000E-03	-2,813E-0
GWP-fossil	kg CO₂ eq.	2,890E+00	5,450E-01	1,310E-03	1,123E-02	2,330E+00	2,781E-03	-2,805E-0
GWP-biogenic	kg CO₂ eq.	3,037E-02	-3,109E-02	-1,780E-07	3,210E-02	2,915E-02	2,025E-04	-3,687E-0
GWP-luluc	kg CO₂ eq.	2,221E-02	1,144E-03	0,000E+00	4,334E-05	2,101E-02	1,690E-05	-4,259E-0
GWP-fossil = Globa GWP-biogenic = Gl GWP-luluc = Global	obal Warming Po	tential bioger	nic	ge				
ODP	kg CFC-11 eq.	1,546E-07	2,217E-08	1,990E-12	7,736E-10	1,315E-07	1,288E-10	-1,175E-0
ODP = Depletion p	otential of the str	atospheric oz	zone layer					
AP	H+ eq.	2,029E-02	1,003E-02	1,030E-05	3,292E-05	1,020E-02	1,664E-05	-8,767E-0
AP = Acidification	potential, Accumu	ılated Exceed	ance					
EP-freshwater	kg P eq.	1,578E-03	7,545E-04	4,880E-10	3,138E-06	8,198E-04	9,416E-07	-6,856E-0
EP-marine	kg N eq.	2,717E-03	8,357E-04	4,260E-06	2,235E-05	1,850E-03	4,568E-06	-5,647E-0
EP-terrestrial	mol N eq.	2,901E-02	9,508E-03	4,670E-05	1,135E-04	1,930E-02	4,309E-05	-7,096E-0
EP-terrestrial EP-freshwater = Eu EP-marine = Eutrop EP-terrestrial = Eut	trophication pot	ential, fractio al, fraction of	n of nutrients re nutrients reach	aching freshwate	er end compartr		4,309E-05	-7,096E-0
EP-freshwater = Eu	trophication pot	ential, fractio al, fraction of	n of nutrients re nutrients reach	aching freshwate	er end compartr	ment	4,309E-05 1,055E-05	
EP-freshwater = Eu EP-marine = Eutro _l EP-terrestrial = Eut	ktrophication pot phication potentic phication pote kg NMVOC eq.	ential, fractio al, fraction of ntial, Accumu 7,994E-03	n of nutrients re nutrients reach lated Exceedance 2,787E-03	aching freshwate ing marine end co ce	er end compartr ompartment	ment		
EP-freshwater = Eu EP-marine = Eutro EP-terrestrial = Eut POCP POCP = Formation ADP-minerals &	ktrophication pot phication potentic phication pote kg NMVOC eq.	ential, fractio al, fraction of ntial, Accumu 7,994E-03	n of nutrients re nutrients reach lated Exceedance 2,787E-03	aching freshwate ing marine end co ce	er end compartr ompartment	5,161E-03		-2,061E-0
EP-freshwater = Eu EP-marine = Eutroj EP-terrestrial = Eut POCP	kg NMVOC eq. potential of trop	ential, fractio al, fraction of ntial, Accumu 7,994E-03 o-spheric ozc	n of nutrients reach interest reach alated Exceedance 2,787E-03	aching freshwate ing marine end co ce 1,170E-05	er end compartrompartment 2,422E-05	5,161E-03 2,931E-05	1,055E-05	-2,061E-0 -2,042E-0
EP-freshwater = Eu EP-marine = Eutroj EP-terrestrial = Eut POCP POCP = Formation ADP-minerals & metals	kg NMVOC eq. potential of trop kg Sb eq. MJ etals = Abiotic dep	ential, fractional, fractional, fraction of ntial, Accumunate fractional frac	n of nutrients reach illated Exceedance 2,787E-03 one 2,127E-04 9,429E+00 tial for non-fossi	aching freshwate ing marine end core 1,170E-05 5,110E-11 1,810E-02	er end compartrompartment 2,422E-05 4,375E-08	5,161E-03 2,931E-05	1,055E-05 9,581E-08	-2,061E-0 -2,042E-0
EP-freshwater = Eu EP-marine = Eutrop EP-terrestrial = Eut POCP POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & me	kg NMVOC eq. potential of trop kg Sb eq. MJ etals = Abiotic dep	ential, fractional, fractional, fraction of ntial, Accumunate fractional frac	n of nutrients reach illated Exceedance 2,787E-03 one 2,127E-04 9,429E+00 tial for non-fossi	aching freshwate ing marine end core 1,170E-05 5,110E-11 1,810E-02	er end compartrompartment 2,422E-05 4,375E-08	5,161E-03 2,931E-05 7,033E+01	1,055E-05 9,581E-08	-2,061E-0 -2,042E-0 -4,514E+0
EP-freshwater = Eu EP-marine = Eutro EP-terrestrial = Eut POCP POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & me ADP-fossil = Abioti	kg NMVOC eq. potential of trop kg Sb eq. MJ etals = Abiotic dep c deple-tion for fo	ential, fraction of al, fraction of al, fraction of al, fraction of ontial, Accumu 7,994E-03 o-spheric ozc 2,421E-04 7,994E+01 oletion potential resource	2,787E-03 one 2,127E-04 9,429E+00 tial for non-fossis potential	aching freshwate ing marine end core 1,170E-05 5,110E-11 1,810E-02	2,422E-05 4,375E-08 1,000E-01	5,161E-03 2,931E-05 7,033E+01	1,055E-05 9,581E-08 6,622E-02	-2,061E-0 -2,042E-0 -4,514E+0
EP-freshwater = Eu EP-marine = Eutro EP-terrestrial = Eut POCP POCP = Formation ADP-minerals & metals ADP-fossil ADP-minerals & metals ADP-fossil = Abioti WDP	kg NMVOC eq. potential of trop kg Sb eq. MJ etals = Abiotic dep c deple-tion for fo	ential, fraction of al, fraction of al, fraction of al, fraction of ontial, Accumu 7,994E-03 o-spheric ozc 2,421E-04 7,994E+01 oletion potential resource	2,787E-03 one 2,127E-04 9,429E+00 tial for non-fossis potential	aching freshwate ing marine end core 1,170E-05 5,110E-11 1,810E-02	2,422E-05 4,375E-08 1,000E-01 2,405E-03	5,161E-03 2,931E-05 7,033E+01	1,055E-05 9,581E-08 6,622E-02	-2,061E-0. -2,042E-0. -4,514E+0

Common base of mandatory indicators

Inventory flows indicator - Resource use indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
PERE	MJ	1,890E+01	1,611E+00	2,050E-05	1,602E-02	1,726E+01	1,462E-02	-5,582E-01
PERM	MJ	1,836E-01	1,836E-01	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
PERT	MJ	1,909E+01	1,795E+00	2,050E-05	1,602E-02	1,726E+01	1,462E-02	-5,582E-01
PENRE	MJ	7,718E+01	7,503E+00	1,810E-02	9,995E-02	6,949E+01	6,557E-02	-4,513E+00
PENRM	MJ	1,931E+00	1,931E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
PENRT	МЈ	7,911E+01	9,434E+00	1,810E-02	9,995E-02	6,949E+01	6,557E-02	-4,513E+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	Instal- lation	Use	End of life	Bene- fits
SM	kg	6,015E-03	6,015E-03	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
RSF	MJ	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
NRSF	MJ	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00
FW	m³	5,896E-02	1,390E-02	1,600E-07	6,457E-05	4,496E-02	3,840E-05	-7,889E-03

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	Instal- lation	Use	End of life	Bene- fits
Hazardous waste disposed	kg	9,377E-05	6,410E-05	0,000E+00	1,406E-07	2,948E-05	5,240E-08	-6,066E-05
Non-hazardous waste disposed	kg	1,520E-01	1,373E-01	4,550E-05	1,597E-04	1,438E-02	7,630E-05	-5,448E-02
Radioactive waste disposed	kg	8,215E-04	8,187E-05	3,230E-08	2,788E-07	7,387E-04	5,971E-07	-3,511E-05

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Common base of mandatory indicators

Inventory flows indicator – Output flow indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Components for reuse	kg	1,540E-03	0,000E+00	0,000E+00	1,540E-03	0,000E+00	0,000E+00	0,000E+00
Materials for recycling	kg	1,183E-01	4,000E-02	0,000E+00	1,085E-02	0,000E+00	6,748E-02	0,000E+00
Materials for energy recovery	kg	5,984E-02	2,440E-03	0,000E+00	2,272E-02	0,000E+00	3,468E-02	0,000E+00
Exported energy	MJ	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00	0,000E+00

Inventory flow indicator – other indicators

Indicator	Unit	Total
Biogenic carbon content of the product	kg of C	0,000E+00
Biogenic carbon content of the associated packaging	kg of C	6,430E-03

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Optional indicators

Environmental indicators

Indicator	Unit	Total	Manu- facturing	Distri- bution	Instal- lation	Use	End of life	Bene- fits
Total use of primary energy during the life cycle	МЈ	9,819E+01	1,123E+01	1,810E-02	1,160E-01	8,675E+01	8,019E-02	-5,071E+00
Emissions of fine particles	inci- dence of dis- eases	9,626E-08	3,788E-08	7,710E-11	3,397E-10	5,785E-08	1,150E-10	-2,669E-08
lonizing radiation, human health	kBq U235 eq.	3,425E+00	4,579E-02	3,150E-06	8,691E-04	3,376E+00	2,630E-03	-3,518E-02
Ecotoxicity (fresh water)	CTUe	1,206E+02	7,644E+01	8,750E-04	1,551E-01	4,386E+01	9,272E-02	-7,051E+01
Human toxicity, car- cinogenic effects	CTUh	4,006E-09	2,667E-09	2,280E-14	5,865E-12	1,329E-09	3,420E-12	-2,237E-09
Human toxicity, non- carcinogenic effects	CTUh	1,502E-07	1,193E-07	5,580E-13	1,378E-10	3,056E-08	1,698E-10	-1,125E-07
Impact related to land use/soil quality		2,976E+01	7,161E+00	0,000E+00	4,673E-02	2,252E+01	2,917E-02	-3,173E+00

Other indicators

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

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For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by multiplying the values of the Reference product by the following coefficients:

* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Instal- lation	Use	End of life	Benefits
2TKA00001391 (302E-81P)	0,99	0,95	1,18	1,00	0,84	0,99
2TKA00001392 (302E-83P)	0,99	0,95	1,18	1,00	0,84	0,99
2TKA00001393 (302E-84P)	0,99	0,95	1,18	1,00	0,84	0,99
2TKA000939G1 (302EUC)	0,98	0,83	0,97	1,00	0,78	0,99
2TKA000940G1 (302EUC.CLAW)	0,99	0,88	0,97	1,00	0,84	1,13
2TKA00002962 (302EUC-02)	0,99	0,91	1,12	1,00	0,84	0,99
2TKA00002963 (302EUC-03)	0,99	0,91	1,12	1,00	0,84	1,00
2TKA00002964 (302EUC-05)	0,99	0,91	1,12	1,00	0,84	1,00
2TKA00002965 (302EUC-06)	0,99	0,90	1,12	1,00	0,83	0,99
2TKA00000440 (302EUC-81)	0,99	0,87	0,94	1,00	0,84	0,99
2TKA00000441 (302EUC-83)	0,99	0,87	0,94	1,00	0,84	0,99
2TKA00000431 (302EUC-84)	0,99	0,87	0,94	1,00	0,84	0,99
2TKA00004809 (302EUC-884)	0,99	0,87	0,94	1,00	0,84	0,99
2TKA00004102 (302EUC-885)	0,99	0,87	0,94	1,00	0,84	0,99
2TKA00002243 (302EUCM)	98,23	81,52	89,30	100,00	77,94	98,99
2TKA00001105 (302EUCM-84)	98,70	86,01	89,30	100,00	84,02	99,27
2TKA00001401 (302EUCP)	0,98	0,91	1,19	1,00	0,78	0,99
2TKA000945G1 (302EUJ)	0,99	0,91	1,03	1,00	0,87	0,99
2TKA000946G1 (302EUJ.1)	0,99	0,94	1,03	1,00	0,91	0,99
2TKA000949G1 (302EUJ.CLAW)	1,00	0,96	1,03	1,00	0,94	1,13

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 * if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Instal- lation	Use	End of life	Benefits
2TKA000950G1 (302EUJ1R)	1,01	1,16	1,03	1,00	1,21	1,02
2TKA000951G1 (302EUJ-81)	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00000442 (302EUJ-83)	1,00	1,00	1,00	1,00	1,00	1,00
2TKA000952G1 (302EUJ-84)	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00002908 (302EUJ-866)	1,00	1,00	1,00	1,00	1,00	1,00
2TKA00002909 (302EUJ-884)	1,00	0,99	0,95	1,00	1,00	1,00
2TKA00002910 (302EUJ-885)	1,00	0,99	0,95	1,00	1,00	1,00
2TKA00002242 (302EUJM)	98,97	88,54	89,30	100,00	87,45	99,42
2TKA00001106 (302EUJM-84)	99,96	97,80	89,30	100,00	100,00	99,98
2TKA00001404 (302EUJP)	0,99	0,98	1,19	1,00	0,87	0,99
2TKA000953G1 (302EUJPP)	9,88	9,12	10,32	10,00	8,74	9,93
2TKA00002611 (302EUJT)	1,05	1,01	1,03	1,00	1,00	1,17
2TKA00002003 (302EUJT-212)	1,05	0,99	1,03	1,00	0,98	1,17
2TKA00002004 (302EUJT-214)	1,05	0,99	1,03	1,00	0,98	1,17
2TKA00002005 (302EUJT-81)	1,06	1,03	0,98	1,00	1,05	1,18
2TKA00002006 (302EUJT-83)	1,06	1,03	0,98	1,00	1,05	1,18
2TKA00002007 (302EUJT-84)	1,06	1,03	0,98	1,00	1,05	1,18
2TKA00004799 (302EUJT-884)	1,06	1,03	1,00	1,00	1,05	1,18
2TKA00003863 (302EUJT-885)	1,06	1,03	1,00	1,00	1,05	1,18
2TKA00002621 (302EUJT-914)	1,05	1,01	1,03	1,00	1,00	1,17

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* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

Product name	Manufacturing	Distribution	Instal- lation	Use	End of life	Benefits
2TKA000955G1 (302UC)	0,66	0,75	0,97	1,00	0,68	0,77
2TKA00001405 (302UCP)	0,66	0,83	1,19	1,00	0,68	0,77
2TKA00002664 (302UJ1RP)	0,70	1,19	1,19	1,00	1,16	0,81
2TKA00000339 (302UJ-81)	0,68	0,91	0,95	1,00	0,90	0,78
2TKA00000338 (302UJ-83)	0,68	0,92	1,00	1,00	0,90	0,78
2TKA00000432 (302UJ-84)	0,68	0,91	0,95	1,00	0,90	0,78
2TKA00001406 (302UJP)	0,67	0,95	1,19	1,00	0,83	0,78
2TKA000941G1 (302EUC1L)	1,07	1,81	1,81	1,00	1,80	1,05
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Registration number:	Drafting Rules:	PCR-ed4-EN-2021 09 06
ABBG-00095-V01.01-EN	Supplemented by:	PSR-0005-ed2-EN-2016 03 29
Verifier accreditation number:	Information and refere	nce documents:
VH43	www.pep-ecopassport	.org
Date of issue: 04-2023	Validity period:	5 years
Independent verification of the declaration and data, in c	ompliance with ISO 14025	5: 2006
Internal	External •	

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019 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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Environmental Impact Indicator Glossary

Impact indicators

Indicator	Description	Unit
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 e depr.

Resource use indicators

Indicator	Description	Unit
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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