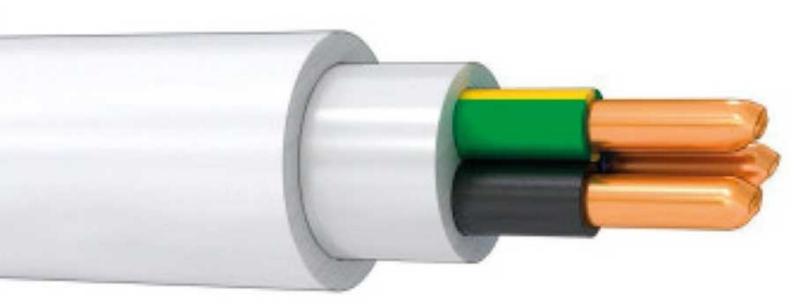


Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

LAPP EKK Light 5G1,5 mm² 1023743







The Norwegian EPD Foundation

Owner of the declaration: Elektroskandia Norge AS

Product: LAPP EKK Light 5G1,5 mm² 1023743

Declared unit: 1 m

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 027:2020 Part B for Electrical cables and wires

LAPP NORWAY

Program operator: The Norwegian EPD Foundation

Declaration number: NEPD-4673-3901-EN

Registration number: NEPD-4673-3901-EN

Issue date: 11.07.2023

Valid to: 11.07.2028

EPD Software: LCA.no EPD generator ID: 66656



General information

Product

LAPP EKK Light 5G1,5 mm² 1023743

Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway The Norwegian EPD Foundation Phone: +47 23 08 80 00 web: post@epd-norge.no

Declaration number:

NEPD-4673-3901-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 027:2020 Part B for Electrical cables and wires

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 m LAPP EKK Light 5G1,5 mm² 1023743

Declared unit with option:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

Functional unit:

1 meter of EKK Light installation cable or lines used to transmit a reference electric current of 1A over 40 years, including waste treatment at end-of-life.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools. Approval number: NEPDT32.

Third party verifier:

Owner of the declaration:

Elektroskandia Norge AS Contact person: Pål Kristiansen Phone: +47 97 66 22 12 e-mail: pkr@elektroskandia.no

Manufacturer:

Lapp Norway AS Eikringen 11 3036 Drammen, Norway

Place of production:

TTkabeli d.o.o. Knešpolje bb 88200 Široki Brijeg, Bosnia and Herzegovina

Management system:

ISO 14001, ISO 9001

Organisation no:

977 454 700

Issue date:

11.07.2023

Valid to:

Year of study:

2021

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway. Approval number:

Developer of EPD: Gjøran A. Lerskallen - Lapp Norway AS

Reviewer of company-specific input data and EPD: Petter Dahl - Lapp Norway AS

Approved:

Håkon Hauan Managing Director of EPD-Norway

Vito D'Incognito - Take Care International (no signature required)

Product

Product description:

Installation cable with single-wire conductors. Used for fixed installations in open systems and in tubes. Can be used both indoors and outdoors. Not for laying directly in soil. Double insulated cable with white outer sheath, color-coded conductors, revolved. Self-extinguishing and flame retardant according to IEC 60332-1-2

Product specification

CONSTRUCTION Conductor: Round, solid copper (RE) Conductor insulation: PVC Inner covering: PVC Outer sheath: PVC

Materials	kg	%
Plastic - Polyvinyl chloride (PVC)	0,09	51,74
Metal - Copper	0,06	34,24
Plastic - Polyethylene	0,03	14,03
Total	0,18	

Technical data:

EKK Light 5G1,5 mm² LAPP Art.No: 1113309 Elnummer: 1023743 https://efobasen.efo.no/produkt/1023743

TECHNICAL DATA Core identification HD 308 S2 3 conductors: yellow / green, blue, brown 4 conductors: yellow / green, brown, black, gray 5 conductors: yellow / green, blue, brown, black, gray Bending radius, fixed installation 6 x outer diameter Operating voltage U / Uo 300 / 500V Test voltage 2000V Temperature range - 15 ° C to + 70 ° C Maximum short-circuit temperature + 160 ° C Self-extinguishing and flame retardant IEC 60332-1-2 CPR Eca

Market:

Nordic countries

Reference service life, product

40 years. Standard lifetime for energy distribution network applications, provided in appendix 1 of PSR for wires, cables, and accessories of PEP Ecopassport.

Reference service life, building or construction works

40 years. Estimation made to match the product service life and keep the EPD environmental impact calculations at the product level.

LCA: Calculation rules

Declared unit:

1 m LAPP EKK Light 5G1,5 mm² 1023743

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

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Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Metal - Copper	ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019
Plastic - Polyvinyl chloride (PVC)	ecoinvent 3.6	Database	2019

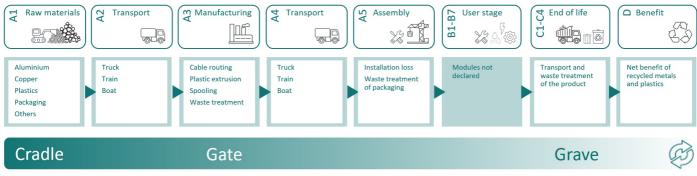
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System boundaries (X=included, MND=module not declared, MNR=module not relevant)

	Product sta	ge	Constr installati	uction on stage		Use stage					End of life stage				Beyond the system boundaries	
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Х	Х	Х	Х	Х	MND	MND	MND	MND	MND	MND	MND	Х	Х	Х	Х	Х

System boundary:

The flowchart below illustrates the system boundaries of the analysis:



Additional technical information:

This EPD includes only the spesific cable as named in the heading. For other cross sections EPD can be made on request. This spesific cable is also available in the following dimentiones:

Art.nr - Type - Elnr. - Link

1113297 - EKK Light 3G1,5 mm² - 1023731 - https://efobasen.efo.no/produkt/1023731 1113309 - EKK Light 5G1,5 mm² - 1023743 - https://efobasen.efo.no/produkt/1023743 1113300 - EKK Light 3G2,5 mm² - 1023734 - https://efobasen.efo.no/produkt/1023734 1113312 - EKK Light 5G2,5 mm² - 1023746 - https://efobasen.efo.no/produkt/1023746

Each cross section has its own EPD

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Module A4 = In A4, a transport distance from the production site to Elektroskandia's warehouse in Langhus was included. A distance of 300 km was also added as additional transport to market.

Modules A5 = 2 % product losses during installation are estimated by the company. No energy use has been quantified since installation in buildings is often done by manual labour. Use of portable electrical devices (e.g., drill) usually have low energy requirements falling under the cut-off criterion of 1%.

Module C1 = de-construction in buildings is often done by manual labour. Use of portable electrical devices (e.g., drill) usually have low energy requirements falling under the cut-off criterion of 1%.

Module C2 = 300 km is added as default transport to waste treatment in C2.

Modules C3 and C4 = Waste treatment of the product follows the default values provided in EN 50693, Product Category Rules for life cycle assessments of electronic and electrical products and systems, table G.4. This table specified how different types of raw materials used in A1 will likely be treated during the end-of-life of the product. Waste treatments in C3 include material recycling and incineration with and without energy recovery and fly ash extraction. Disposal in C4 consist of landfilling of different waste fractions and of ashes.

Module D = The recyclability of metals and plastics allows the producers a credit for the net scrap that is produced at the end of a product's life. The benefits from recycling of net scrap are described in formula from EN 15804:2012+A2:2019. Substitution of heat and electricity generated by the incineration with energy recovery of plastics is also calculated in module D.

Assembly (A5)	Unit	Value			
Product loss during installation (percentage of cable)	Units/DU	0,02			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (kgkm) - RER	36,7 %	300	0,043	l/tkm	12,90
Waste processing (C3)	Unit	Value			
Aluminium to recycling (kg)	kg/DU	0,06			
Copper to recycling (kg)	kg	0,04			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg	0,01			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg/DU	0,03			
Waste treatment of polyvinylchloride (PVC), incineration with energy recovery and fly ash extraction (kg)	kg	0,05			
Waste treatment of polyvinylchloride (PVC), incineration with energy recovery and fly ash extraction (kg)	kg/DU	0,09			
Disposal (C4)	Unit	Value			
Landfilling of aluminium (kg)	kg/DU	0,01			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg/DU	0,00			
Landfilling of ashes from incineration of Polyvinylchloride (PVC), process per kg ashes and residues (kg)	kg	0,02			
Landfilling of ashes from incineration of Polyvinylchloride (PVC), process per kg ashes and residues (kg)	kg/DU	0,01			
Landfilling of copper (kg)	kg	0,02			
Landfilling of plastic mixture (kg)	kg	0,06			



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Benefits and loads beyond the system boundaries (D)	Unit	Value	
Substitution of electricity, in Norway (MJ)	MJ	0,22	
Substitution of electricity, in Norway (MJ)	MJ/DU	0,24	
ubstitution of primary copper with net scrap (kg)	kg	0,02	
ubstitution of primary copper with net scrap (kg)	kg/DU	0,04	
ubstitution of thermal energy, district heating, in orway (MJ)	MJ	3,29	
ubstitution of thermal energy, district heating, in lorway (MJ)	MJ/DU	1,66	



LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Envir	onmental imp	act										
	Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
P	GWP-total	kg CO ₂ - eq	8,51E-01	1,92E-02	2,93E-01	0	3,17E-02	0	8,88E-03	3,97E-01	1,62E-02	-1,90E-01
P	GWP-fossil	kg CO ₂ - eq	8,37E-01	1,92E-02	2,93E-01	0	3,14E-02	0	8,87E-03	3,97E-01	1,62E-02	-1,88E-01
P	GWP-biogenic	kg CO ₂ - eq	1,36E-02	7,13E-06	9,04E-05	0	2,75E-04	0	3,67E-06	1,16E-04	4,95E-06	-8,21E-04
P	GWP-luluc	kg CO ₂ - eq	6,71E-04	7,91E-06	1,06E-05	0	1,43E-05	0	3,16E-06	2,21E-05	1,41E-06	-1,16E-03
Ò	ODP	kg CFC11 - eq	1,46E-07	4,37E-09	1,25E-09	0	3,28E-09	0	2,01E-09	9,34E-09	8,94E-10	-2,09E-03
(Fr	AP	mol H+ -eq	5,57E-02	2,53E-04	6,63E-03	0	1,26E-03	0	2,55E-05	1,77E-04	3,30E-05	-2,69E-02
	EP-FreshWater	kg P -eq	5,42E-04	1,26E-07	6,37E-05	0	1,21E-05	0	7,09E-08	8,38E-07	1,42E-07	-1,82E-04
÷	EP-Marine	kg N -eq	2,04E-03	6,18E-05	2,57E-04	0	4,85E-05	0	5,05E-06	4,67E-05	1,72E-05	-1,17E-03
÷	EP-Terrestial	mol N - eq	2,84E-02	6,87E-04	2,81E-03	0	6,52E-04	0	5,64E-05	5,01E-04	1,16E-04	-1,78E-02
	РОСР	kg NMVOC -eq	9,04E-03	1,91E-04	1,05E-03	0	2,09E-04	0	2,16E-05	1,39E-04	3,30E-05	-4,85E-03
-5D	ADP- minerals&metals ¹	kg Sb - eq	1,60E-04	2,71E-07	6,23E-07	0	3,23E-06	0	2,45E-07	5,97E-07	3,64E-08	-1,50E-04
B	ADP-fossil ¹	MJ	1,33E+01	2,90E-01	2,48E+00	0	3,33E-01	0	1,34E-01	3,78E-01	7,96E-02	-1,84E+00
%	WDP ¹	m ³	6,39E+00	1,75E-01	1,37E+02	0	3,05E+00	0	1,30E-01	7,58E+00	1,32E+00	1,51E+00

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; 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, Accumulated Exceedance; 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; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

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Addi	tional e	nvironmental i	mpact indi	cators								
Ind	icator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	PM	Disease incidence	1,08E-07	1,35E-09	6,67E-09	0	2,36E-09	0	5,43E-10	1,12E-09	3,83E-10	-6,77E-08
	IRP ²	kgBq U235 -eq	2,15E-02	1,26E-03	1,47E-03	0	5,42E-04	0	5,86E-04	1,81E-03	4,31E-04	-4,60E-03
	ETP-fw ¹	CTUe	4,17E+02	1,99E-01	1,17E+00	0	9,11E+00	0	9,95E-02	1,78E+01	1,94E+01	-2,48E+02
40.** ***	HTP-c ¹	CTUh	1,00E-08	0,00E+00	1,02E-10	0	2,04E-10	0	0,00E+00	4,20E-11	9,00E-12	-3,50E-09
	HTP-nc ¹	CTUh	8,83E-07	2,05E-10	4,17E-09	0	1,78E-08	0	1,09E-10	4,28E-09	3,37E-10	-2,99E-07
ò	SQP ¹	dimensionless	5,97E+00	2,48E-01	8,20E-02	0	1,36E-01	0	9,39E-02	1,36E-01	2,50E-01	-5,87E+00

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

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Resource	e use											
Ind	licator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
i i	PERE	MJ	1,10E+00	3,13E-03	4,86E-01	0	3,29E-02	0	1,92E-03	4,75E-02	7,03E-03	-3,26E+00
B	PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ંદ્ર	PERT	MJ	1,10E+00	3,13E-03	4,86E-01	0	3,29E-02	0	1,92E-03	4,75E-02	7,03E-03	-3,26E+00
B	PENRE	MJ	1,00E+01	2,90E-01	2,48E+00	0	2,68E-01	0	1,34E-01	3,78E-01	7,96E-02	-1,84E+00
.Ån	PENRM	MJ	3,25E+00	0,00E+00	0,00E+00	0	3,09E-03	0	0,00E+00	-3,09E+00	0,00E+00	0,00E+00
IA	PENRT	MJ	1,33E+01	2,90E-01	2,48E+00	0	2,71E-01	0	1,34E-01	-2,72E+00	7,96E-02	-1,84E+00
	SM	kg	1,62E-02	0,00E+00	0,00E+00	0	3,27E-04	0	0,00E+00	0,00E+00	1,61E-04	4,65E-02
2	RSF	MJ	1,02E-02	1,04E-04	2,73E-03	0	2,83E-04	0	6,87E-05	8,61E-04	1,65E-04	3,85E-03
Ū.	NRSF	MJ	1,06E-02	3,06E-04	4,85E-04	0	2,54E-04	0	2,46E-04	0,00E+00	1,03E-03	-1,41E-01
۲	FW	m ³	1,37E-02	2,75E-05	2,01E-03	0	4,95E-04	0	1,43E-05	8,89E-03	8,23E-05	-8,08E-03

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; SENRE = Use of non renewable primary energy resources; SENRE = Use of secondary materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

Elektroskandia Norge

End of lif	fe - Waste											
Ind	licator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
A	HWD	kg	7,12E-03	1,47E-05	1,48E-03	0	3,01E-04	0	6,92E-06	0,00E+00	6,42E-03	-1,83E-03
Ū	NHWD	kg	1,92E-01	1,82E-02	1,16E-02	0	7,08E-03	0	6,53E-03	0,00E+00	1,26E-01	-8,71E-02
æ	RWD	kg	2,05E-05	1,99E-06	1,23E-06	0	4,98E-07	0	9,14E-07	0,00E+00	2,95E-07	-3,85E-06

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of li	End of life - Output flow													
Ind	icator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D		
@D	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
\$\$D	MFR	kg	0,00E+00	0,00E+00	3,02E-03	0	1,92E-03	0	0,00E+00	9,30E-02	5,63E-06	-1,82E-03		
DF	MER	kg	0,00E+00	0,00E+00	1,79E-07	0	3,57E-03	0	0,00E+00	1,79E-01	4,05E-06	-2,39E-04		
50	EEE	MJ	0,00E+00	0,00E+00	2,74E-07	0	4,35E-03	0	0,00E+00	2,18E-01	4,32E-05	-5,87E-04		
DI	EET	MJ	0,00E+00	0,00E+00	4,15E-06	0	6,59E-02	0	0,00E+00	3,29E+00	6,54E-04	-8,87E-03		

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

Biogenic Carbon Content									
Indicator	Unit	At the factory gate							
Biogenic carbon content in product	kg C	0,00E+00							
Biogenic carbon content in accompanying packaging	kg C	0,00E+00							

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2



Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, Bosnia and Herzegovina (kWh)	ecoinvent 3.6	976,93	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list or the Norwegian priority list.

Indoor environment

No effect on indoor environment

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products											
Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	8,50E-01	1,92E-02	2,93E-01	0	3,16E-02	0	8,88E-03	3,97E-01	9,94E-03	-1,06E-01

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.



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