ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025:

Disconnecting switch









Declared product:



Disconnecting switch NH4-125 3P 63A

ENVIRONMENTAL PRODUCT DECLARATION

Programme operator:	EPD China
Registration number:	EPD-CN-00022
Issued date:	2025-08-06
Valid until:	2030-08-05



Programme Information

EPD Owner	Name: Zhejiang CHINT Electrics Co., Ltd.
	Contact information of EPD owner:
	No.1 CHINT Road, CHINT Industrial Zone, North Baixiang Town, Yueqing City,
	Zhejiang Province, China.
	ldandan@chint.com
	15088957151
Product Name	Disconnecting switch NH4-125 3P 63A
Production Site	No.1 CHINT Road, CHINT Industrial Zone, North Baixiang Town, Yueqing City,
	Zhejiang Province, China. China
Identification of product	UN CPC Code: 46212 – "Electrical apparatus for switching or protecting electrical
	circuits, for making connections to or in electrical circuits, for a voltage not exceeding 1000 V"
Field of Application	The isolating switch is suitable for various power distribution circuits, It is used to isolate
11	the circuit from the power supply and can carry the current under normal circuit conditions
	and carry the current under abnormal circuit conditions for a certain period of time. It is
	widely used in industry and mining ,commercial and domestic applications.
Programme Operator	EPD China
	Address: 3rd floor, Lane 320, Tianping Road, Xuhui District, Shanghai
	Website:www.epdchina.cn
	Email: info@epdchina.cn secretary@epdchina.cn
LCA Practitioner	qian.zhao@dekra.com
Responsibility	The EPD owner has the sole ownership, liability, and responsibility for the EPD
Comparability	EPDs within same category of product in different programme operator are not suggested
	to be compared. Full conformance with a PCR allows EPD comparability only when all
	stages of a life cycle have been considered. However, variations and deviations are
	possible even applying the same PCR.
Validity	The EPD is published on 2025-08-06 and valid to 2030-08-05
LCA Software (version)	Umberto.11.12.1
LCI Dataset (version)	Ecoinvent-en15804-3.10 (Rev.1,2023/11/28)
Year(s) of Primary Data	01/2023-12/2023
PCR	EPDItaly007 —PCR for Electronic and Electrical Products and Systems, Rev. 3.1
	2024/11/12
	EPDItaly012 -Electronic and electrical products and systems - switches, REV. 1
	28/06/2024
Other Reference Document	BS EN 50693:2019 Product category rules for life cycle assessments of electronic and
	electrical products and systems
Verification statement according	ng to ISO 14025:





Programme operator Registration number EPD China EPD -CN – 00022

Independent verification of the declaration and data according to ISO 14025:2010							
□ internal	☑external Third-party institution verification:						
< Weifang Yao, V	< Weifang Yao, WIT> is an approved certification body accountable for third-part verification.						
Approved by: EF	Approved by: EPD China						
Procedure for fol	low-up of data during EPD validity involves a third-party verifier:						
□Yes 🗹 No							





1 General Information

1.1 Company information

Founded in 1984, CHINT is a leading global provider of smart energy solutions. It is actively deploying "4+1" industrial sectors including smart electrics, green energy, industrial control and automation, smart home and incubator, forming an integrated whole industry chain of "power generation, storage, transmission, substation, distribution, sales and consumption". And it boasts an extensive business network across over 140 countries and regions as well as more than 30,000 employees and an annual sales revenue of over USD 11.4 billion. CHINT has been ranking among China's Top 500 companies for 18 consecutive years. Its subsidiary, CHINT Electrics is the first company in China with low-voltage electrics as its main business getting listed on the A-share market as one of the Top 50 Asian listed companies.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted "One Cloud & Two Nets" as the business strategy. CHINT Cloud fulfills digital application and services in both internal and external as the platform of intelligent technology and data application. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end users, by building a regional smart energy operation network.

Name and location of production site(s) within the organization

Table 1. Location of the organization and Manufacturing sites

Company and Address	Zhejiang CHINT Electrics Co., Ltd. No.1 CHINT Road, CHINT Industrial Zone, North Baixiang Town, Yueqing City, Zhejiang Province, China. (Postal Code 325603)
Manufacturing sites	No.1 CHINT Road, CHINT Industrial Zone, North Baixiang Town, Yueqing City, Zhejiang Province, China. (Postal Code 325603)

1.2 Scope and type of EPD

The system boundary considered in this LCA study is from the cradle to the grave. According to the PCR, the life cycle stage must refer to segmentation in the following 5 stages:

Manufacturing stage, distribution stage, installation stage, use & maintenance stage, and End-of-life stage.

The MANUFACTURING STAGE contains:

Extraction and processing of raw materials, including plastic, metal and etc., and the transportation of the raw material to the factory, packaging also included in this stage;

Manufacturing of the product, including energy consumption of product parts injection, product assembly, and etc.





Generation of process waste, including its transportation to the disposal site;

The DISTRIBUTION STAGE contains the road transport, rail transport, and maritime shipping services for product distribution to various countries.

The INSTALLATION STAGE contains disposal of product packaging and transportation of packaging waste.

The USE & Maintenance STAGE contains Electricity loss in use stage of product;

The END-OF-LIFE STAGE includes:

Transportation of the switch to the collection site;

Disassembly operations;

Distribution and destination of the various material flows to be sent for recycling or disposal or incineration;

Figure 1 below illustrates the system boundaries for the Disconnecting switches, including raw material

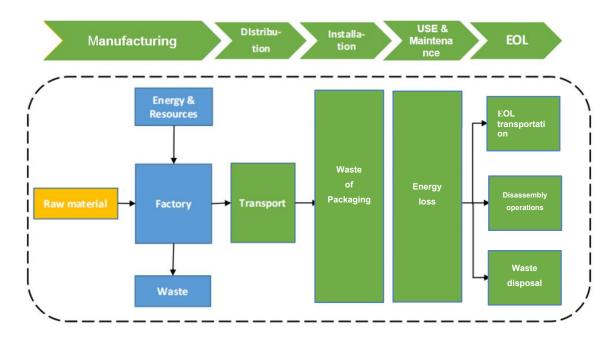


Figure 1 System boundary of target products

Detailed information on the segmentation for the upstream, core, and downstream modules are presented in the following.

Table 2. Division and declarations of life cycle stages according to the PCR

PHASES	MANUFACTUR ING STAGE	DISTRIBUTION STAGE	INSTALLATIO N STAGE	USE & Maintenance STAGE	END-OF-LIFE STAGE De-installation	BENEFITS & LOADS*			
		IN ACCORDANCE TO EN 50693							
Phases declared	X	X	X	X	X	ND			
Data Quality indicator	4.04%								

Note: X=Declared Module, ND=Module not Declared in this LCA study





2 Detailed Product Description

Description of the product

Within this EPD, Disconnecting switch NH4-125 3P 63A are analyzed, there are a static piece of apparatus with two or more winding which, by electromagnetic induction, transforms a system of alternating voltage and current into another system of voltage and current usually of different values and at the same frequency for the purpose of transmitting electrical power.

Table 3. Information of target product

Product name	Disconnecting switch
Specification	NH4-125 3P 63A
Nominal voltage	415V
Nominal current intensity	63A
Number of poles	3P
Nominal short-circuit breaking capacity	/
Functional unit	1 PCS
Production period	01/01/2023 to 31/12/2023
Production process	Injection molding, assembly
Product standard weight	0.247 kg

Note: 0.247kg is the standard mass of the product. Since the components' mass used for calculation and modeling are based on actual weighing of randomly selected product samples, the total mass of the product BOM may deviate slightly from the standard mass. However, this deviation does not exceed 2% of the product's standard mass.

Description of the production processes

A flowchart depicting the production process stages of target product is shown in Figure 2 below.

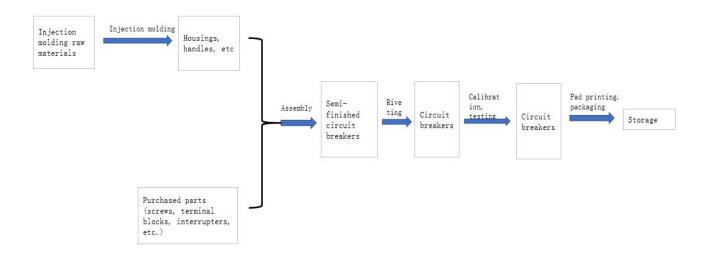


Figure 2 production processes of Disconnecting switch of CHINT





Table 4. NH4-125 3P 63A Main product components and packaging materials per functional unit.

Product components	Weight, kg	Weight-%
Raw materials		
metal	0.11892	40.91%
plastics	0.135324	46.56%
Packaging materials		
corrugated board box	0.020563333	7.07%
packaging film	0.000027125	0.01%
paper	0.014901667	5.13%
Silica	0.0009225	0.32%

Included products do not contain the substances included in the "Candidate List of SVHC" document issued by the European Chemicals Agency (http://echa.europa.eu/candidate-list-table).

Functional unit and Reference service life (RSL)

The functional unit is the product category unit to be referred to when determining environmental impacts. To assess the environmental impacts of different products, the functional units of these products must be equivalent to interpret the results.

The functional unit is specified in terms of 1 pcs, which is in 1 pcs of disconnecting switch. The functional unit is per pcs of disconnecting switch with a RSL of 20 years.

3 LCA results

3.1 Environmental Impact descriptive parameters

The results of the underlying LCA are provided in this section as environmental impacts, resource use, output flows.

Table 5. NH4-125 3P 63A Environmental impact descriptive parameters

RESULTS OF THE LCA –Environmental impacts per functional unit for Disconnecting switch NH4-125 3P 63A							
Core indicator	Unit	Total	MANUFA CTURING STAGE	DISTRIB UTION STAGE	INSTALL ATION STAGE	USE & Maintenan ce STAGE	END-OF- LIFE STAGE De- installation
Global warming potential - Total (GWP-total)	kg CO ₂ - Eq	2.45E+02	2.67E+00	8.16E-02	3.03E-02	2.42E+02	3.05E-01
Global warming potential - biogenic (GWP-biogenic)	kg CO ₂ - Eq	3.03E-01	-2.11E-02	9.13E-06	2.11E-02	2.96E-01	-2.01E-05
Global warming potential - land use and land use change (GWP-luluc)	kg CO ₂ - Eq	3.31E-01	2.45E-03	1.08E-04	7.56E-07	3.28E-01	2.74E-05
Global warming potential - fossil fuels (GWP-fossil)	kg CO ₂ - Eq	2.45E+02	2.69E+00	8.15E-02	2.29E-03	2.42E+02	3.05E-01
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC- 11-Eq	1.66E-06	1.72E-08	1.22E-09	4.13E-11	1.64E-06	4.47E-10
Photochemical ozone creation potential (POCP)	kg NMVOC- Eq	7.35E-01	1.65E-02	1.43E-03	1.57E-05	7.17E-01	2.19E-04
Eutrophication potential - freshwater (EP-freshwater)	kg P-Eq	1.14E-01	4.01E-03	3.78E-06	1.88E-07	1.10E-01	9.94E-06
Eutrophication potential - marine (EP-marine)	kg N-Eq	2.43E-01	5.00E-03	4.65E-04	4.99E-06	2.38E-01	8.06E-05
Eutrophication potential -	mol N-Eq	2.47E+00	5.83E-02	5.15E-03	4.88E-05	2.41E+00	7.39E-04





terrestrial (EP-terrestrial)							
Acidification potential, accumulated Exceedance (AP)	mol H+- Eq	1.29E+00	4.39E-02	1.81E-03	1.15E-05	1.25E+00	2.00E-04
Abiotic depletion potential - fossil resources (ADPF)	MJ	3.16E+03	3.45E+01	1.04E+00	2.80E-02	3.13E+03	4.23E-01
Abiotic depletion potential - non-fossil resources (ADPE)	kg Sb-Eq	2.60E-03	1.25E-03	1.32E-07	6.85E-09	1.35E-03	1.77E-07
Water (user) deprivation potential (WDP)	m ³ world- Eq deprived	5.51E+01	1.22E+00	3.60E-03	1.42E-03	5.39E+01	1.23E-02

3.2 Resource consumption descriptive parameters

Table 6. NH4-125 3P 63A_ Resource consumption descriptive parameters

RESULTS OF THE LCA –Resource consumption per functional unit for Disconnecting switch NH4-125 3P 63A							
Core indicator	Unit	Total	MANUFA CTURING STAGE	DISTRIB UTION STAGE	INSTALL ATION STAGE	USE & Maintenan ce STAGE	END-OF- LIFE STAGE De- installation
Total use of non renewable primary energy (PENRT)	MJ	3.16E+03	3.45E+01	1.04E+00	2.80E-02	3.13E+03	4.23E-01
Use of non renewable primary energy as energy carrier (PENRE)	MJ	3.16E+03	3.28E+01	1.04E+00	2.80E-02	3.13E+03	4.23E-01
Use of non renewable primary energy resources used as raw materials (PENRM)	MJ	1.73E+00	1.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy (PERT)	MJ	4.43E+02	3.47E+00	1.03E-02	5.79E-04	4.39E+02	2.66E-02
Use of renewable primary energy as energy carrier (PERE)	MJ	4.42E+02	2.90E+00	1.03E-02	5.79E-04	4.39E+02	2.66E-02
Use of renewable primary energy resources used as raw materials (PERM)	MJ	5.67E-01	5.67E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary materials (SM)	Kg	5.06E-01	6.25E-02	4.92E-04	1.77E-05	4.43E-01	1.85E-04
Use of renewable secondary fuels (RSF)	MJ	7.14E-03	4.32E-03	2.63E-06	2.42E-07	2.80E-03	1.03E-05
Net use of fresh water (FW)	m^3	1.58E+00	3.24E-02	9.73E-05	2.42E-05	1.55E+00	2.64E-04
Use of non-renewable secondary fuels (NRSF)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

3.3 Waste production descriptive parameters

Table 7. NH4-125 3P 63A_ Waste production descriptive parameters

RESULTS OF THE LCA –Waste production per functional unit for Disconnecting switch NH4-125 3P 63A								
Core indicator	Unit	Total	MANUFA CTURING STAGE	DISTRIB UTION STAGE	INSTALL ATION STAGE	USE & Maintenan ce STAGE	END-OF- LIFE STAGE De- installation	
Hazardous waste disposed (HWD)	kg	1.35E-03	1.35E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Non-hazardous waste disposed (NHWD)	kg	1.20E-01	0.00E+00	0.00E+00	1.77E-02	0.00E+00	1.02E-01	
Radioactive waste disposed (RWD) - Total	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Materials for energy recovery (MER)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
Materials for recycling (MFR)	kg	1.70E-01	0.00E+00	0.00E+00	1.77E-02	0.00E+00	1.52E-01	





Components for reuse (CRU)	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal (EET)	MJ	2.87E-01	0.00E+00	0.00E+00	7.10E-02	0.00E+00	2.16E-01
Exported energy, electric (EEE)	MJ	1.15E-01	0.00E+00	0.00E+00	2.84E-02	0.00E+00	8.66E-02

4 Supplementary information

4.1 Calculation rules

functional unit:

The functional unit is specified in terms of pcs. The functional unit is in 1 pcs of disconnecting switch. The functional unit is per pcs of disconnecting switch with a RSL of 20 years.

Assumptions:

- 1. As for the transportation for the unspecified distance such as the transport of end of life stage, there is an assumption of 300 km of the transport in Europe according to PCR.
- 2. For EOL stage, products are disposed of locally, the materials' disposal rate and recycling rate of each material are followed the specific data from EN 50693: 2019.

Cut off rules

- 1. Environmental impacts relating to personnel, infrastructure, and production equipment not directly consumed in the process are excluded from the system boundary.
- 2. Some materials (material unknown, or no applicable emission factor available) whose mass less than 0.1% of the product are ignored. The total exclusion shall not exceed 1% of the total weight of the product.
- 3. Some of the general solid waste in the manufacturing stage is not included in the calculation because it is recycled in its disposal stage, Incineration models are used for solid waste that cannot be recycled, but the environmental impact of its transshipment to the recycling company is included in the assessment.
- 4. The exhaust gas from the production is excluded because the emissions are very small, and the amount of the exhaust gas during the reference period are calculated to be less than 1% of the total waste generated during the production stage.
- 5. Since there is almost no energy consumption or material usage during the product installation phase, only packaging waste was considered for this stage.
- 6. The product virtually requires no maintenance, and the environmental emissions from maintenance are excluded.

Data quality

In this EPD, both primary and secondary data are used. Site specific foreground data have been provided by Zhejiang CHINT Electrics Co., Ltd.. Main data sources are the bill of materials available on the enterprise resource planning. For all processes for which primary are not available, generic data originating from the ecoinvent v3.10 database, allocation cut-off by classification, are used. The ecoinvent database is available in the Umberto.11.12.1 software used for the calculations. The ecoinvent v 3.10 by cut-off classification system processes are used to model the background system of the processes. The raw material inputs are modelled with data from ecoinvent representing a global market (GLO) or rest-of-world (ROW) coverage. These datasets are assumed to be representative.





Allocation of input and output flows

As for the electricity consumed during the manufacturing plant, we assessed the consumption from 2 parts, injection molding and welding (isolation switch does not involve welding process) of parts and final assembly of products.

For injection molding, due to the difficulty of data collection, the total output value of the injection molding and welding workshops and the output value of the parts used on the product are finally used to allocate the electricity consumption of the product parts manufacturing. As shown in the following formula:

$$Eparts = \frac{Electricity\ consumption\ for\ parts\ making}{Total\ (Output\ value\ of\ parts\ making)} \times Output\ value\ of\ parts\ on\ target\ product \tag{1}$$

For the assembly process, the electricity used for product assembly is allocated by working hours:

$$Eassembly = \frac{Electricity\ consumption\ for\ assembly}{Total\ (Working\ hours\ of\ all\ products)} \times Working\ hous\ of\ Target\ Product \tag{2}$$

Allocation by reuse, recycling and recovery process

Final waste treatment processes (all modeled as incineration), where waste production is linked to the product life cycle, has been included in the study.

For recovery and recycling processes, which take place outside the boundaries of the product system, only impacts related to the transportation of the waste to the treatment platform has been taken into account.





4.2 Scenarios and additional technical information

Description of the processes included in raw materials extraction, raw materials transport and product assembly.

Raw materials extraction and production: This stage mainly includes the mining, transportation and production of raw materials, using the factors of the database to calculate, the production of raw materials such as steel products, copper products, aluminum products, steel plate rolling and copper wire drawing processes energy consumption are also included.

Raw materials transport: Concerning raw material transportation, all the raw materials are sourced from domestic suppliers and are transported by truck, unspecified lorry is used for modeling in this study. The study applies an aggregated approach to raw materials transportation summarizing all the transport data by multiplying the weight and the transportation distance.

Manufacturing:

The energy involved in the production stage of the product is electricity, allocation method see chapter 4.1 specifically. The data details are shown in table 7, 8, 9, 10 (data period is 01/01/2023 to 31/12/2023):

Table 8. Energy consumption and output value of injection molding workshops

Item	Amount	Unit
Electricity consumption- injection molding	10552366.23	kWh
Output value - injection molding (constant price)	194996600	Yuan

Table 9. Allocation results for target product-injection molding

Item	Amount	Unit
Unit electricity consumption per output value - injection molding	0.053098192	kWh/yuan
Output value of parts on NH4-125 3P 63A (constant price) - injection molding	0.12947	Yuan
NH4-125 3P 63A parts production electricity consumption - injection molding	0.007006352	kWh

Table 10. Energy consumption and working hours of assembly workshop

Item	Amount	Unit
Study scope assembly energy consumption	1985927.611	kWh
Study scope working hours	19583605.1	h

Note: Since the electricity consumption during product assembly has the strongest correlation with working hours, working hours are selected for allocation.

Table 11. Allocation results for target product-assembly workshop

Item	Amount	Unit
Working hours for NH4-125 3P 63A	124.16	S
Assembly electricity consumption for NH4-125 3P 63A	0.003497438	kWh/pcs

Distribution stage:

The products are transported to global for application. The scope covers over a dozen countries and regions across Asia, Europe, etc., with transportation modes including maritime shipping and land transport.





Description of the processes for others

Installation:

At this stage, only the packaging materials are discarded. The quality and disposal rate during the packaging waste stage are shown in the table below:

Table 12. NH4-125 3P 63A_Waste treatment scenario for packaging

Material-Packaging	Waste weight (kg)	Disposal rate	Disposal weight (kg)
Other Plastic	0.000027125	50%	1.36E-05
Paperboard	0.035465	50%	1.77E-02
Mineral	0.0009225	100%	9.23E-04

The transportation distance of packaging disposal is set at 300 km based on EPDItaly012 - Electronic and electrical products and systems - switches, Rev. 1.

Uses and maintenance:

As for use phase:

The Puse is base on Maximum power consumption from Product Test Report.

As for the electricity consumption, according to the calculation formula in PCR, and RSL=20, $\,^{\circ}$ (coefficient describing the amount of time in which the switch is requested to operate its function) =30%, the Euse of each product is calculated as follows:

Table 13. E_{use} calculated of target product

Product	Specification	Maximum power consumption (w)	E _{use} (kWh)
NH4-125	3P 63A	6.22	326.9232

Because the product has almost no maintenance phase, this phase is negligible.

EOL stage:

For the end-of-life stage, the transportation of waste materials adopts the model distance of 300 km in PCR., the factors of disassembly are used in the calculation of waste processing stage. The materials' disposal rate and recycling rate of each material are followed the specific data from EN 50693 2019. Here is the table of the summary disposal material amount of target product during end-of-life:

Table 14. NH4-125 3P 63A Waste treatment scenario

Material-BOM	Waste weight (kg)	Disposal rate	Disposal weight (kg)
Steel	0.0636	20%	0.01272
Aluminium	0.00228	30%	0.000684
Copper	0.0516	40%	0.02064
Other non-ferrous mentals	0.00144	40%	0.000576
PP	0.000084	40%	0.0000336
Other Plastic	0.13524	50%	0.06762

4.3 Other optional additional environmental information

In this study, it is important to note that different electricity grid mixes are used for different stages of the life cycle. Specifically, manufacturing stage of the product took place in Shanghai, China, Electricity mix for Eastern Power Grid of China was used for modelling. As for use & maintenance stage, European market average electricity mix is used. The detailed information can be found in Table 15.

Table 15. Electricity profiles applied

Tuote 13. Electricity promos applied			
Consumption type	Electricity process type	GWP Value	Sources





Programme operator Registration number EPD China EPD -CN - 00022

Electricity use in manufacturing stage-grid power	Electricity, low voltage {CN-ECGC} market group for Cut-off, U	0.884 kg CO2-Eq/kWh	Ecoinvent data set	
Electricity use in the use & maintenance stage	Market group for electricity low voltage - Global (GLO)	0.741 kg CO2-Eq/kWh	Version 3.10	

Special Note:

According to the requirements of EPDItaly007 — PCR for Electronic and Electrical Products and Systems, Rev. 3.1, in any case, all electricity generation in all EPDs without GO shall be calculated with residual mix.

However, the Chinese regional grid factors do not include a "residual mix" category. Therefore, we conducted a sensitivity analysis:

Based on the grid structure of Zhejiang Province, we selected the GWP factors for electricity production-hard coal and electricity production-nuclear in Zhejiang Province to simulate and construct a residual mix for sensitivity analysis. The GWP value of simulated emission is 0.997 kg CO2-eq/kWh, with a 13% deviation of selected electricity emission factor. Since the environmental impact of the electricity consumption of manufacture stage itself is extremely minor—taking the GWP-Total indicator as an example, the electricity emissions in the manufacture stage account for less than 0.03% of the total indicator value—the overall impact of using this factor is negligible, less than 0.01% to total GWP among all life stages. Therefore, the use of the data "Electricity, low voltage {CN-ECGC}| market group for | Cut-off, U" has an insignificant effect on the final EPD results. In this study, we retained this factor for accounting purposes.





References

- [1] EPD China General Programme Instructions V 3.0
- [2] EN 50693:2019, Product category rules for life cycle assessments of electronic and electrical products and systems.
- [3] Ecoinvent-en15804-3.10 (Rev.1,2023/11/28), Swiss Centre for Life Cycle Assessment, (www.ecoinvent.ch).
- [4] EN 15804:2012+A2:2019/AC:2021, Sustainability of construction works Environmental product declaration Core rules for the product category of construction products.
- [5] ISO 14025:2006, Environmental labels and declarations-Type III environmental declarations-Principles and procedures.
- [6] ISO 14040: 2006/Amd 1:2020 Environmental management Life cycle assessment Principles and framework Amendment 1 (ISO 2020).
- [7] ISO 14044: 2006/Amd 2:2020 Environmental management Life cycle assessment Requirements and guidelines Amendment 2 (ISO 2020).
- [8] EPDItaly007 —PCR for Electronic and Electrical Products and Systems, Rev. 3.1, 2024/11/12
- [9] EPDItaly012 -Electronic and electrical products and systems switches, Rev. 1, 28/06/2024





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