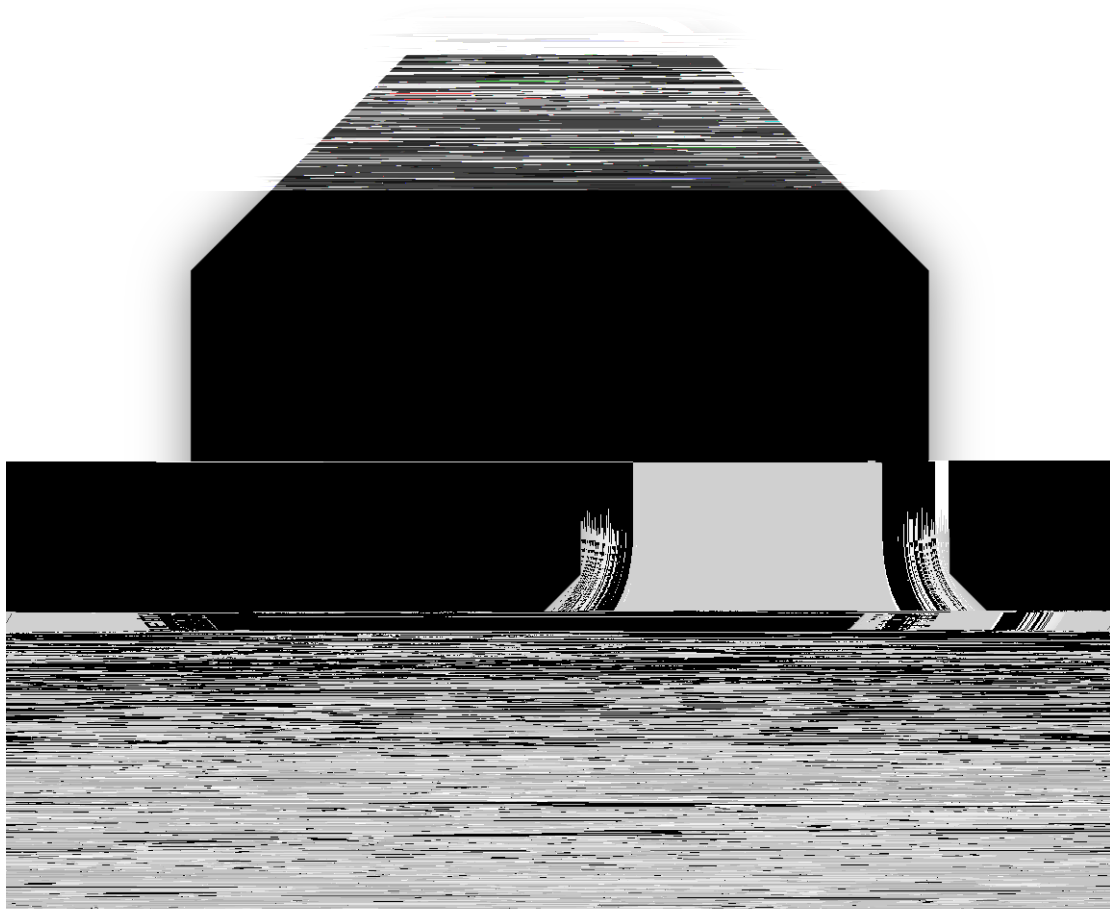


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Verification summary

Client



	☒ Category 4: indirect GHG emissions from products used by organization ☒ Category 5: indirect GHG emissions associated with the use of products from the organization ☒ Category 6: indirect GHG emissions from other sources
GHG groups.....:	Including CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆ , NF ₃ seven types of greenhouse gases
GHG sources and sinks.:	The facilities of the organization contributing to GHG emissions within the reporting boundaries
Base year.....:	2024-01-01-2024-12-31
Verification conclusion:	In accordance with ISO 14064-3:2019, the claim submitted by the responsible party was verified. It was verified that the organization's boundaries meet the requirements of the standard. The data and information provided were found to be reliable and consistent with the requirements of the standard. No major discrepancy.
Verification of:	
Member.....	of an opinion
Leader of verification team.....	Johny Wang
Other personnel (observers, interns/trainees, external assessors, etc.).....:	Observers: / Interns / trainees: / External auditors: /

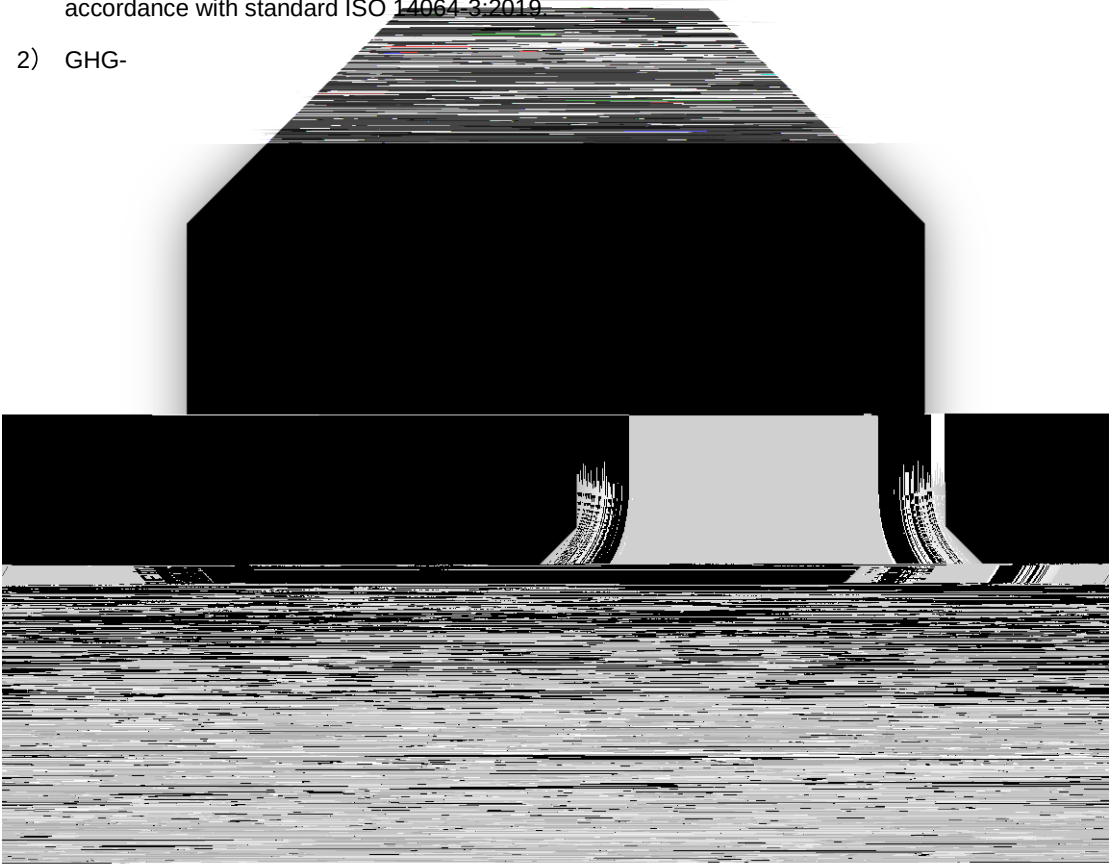


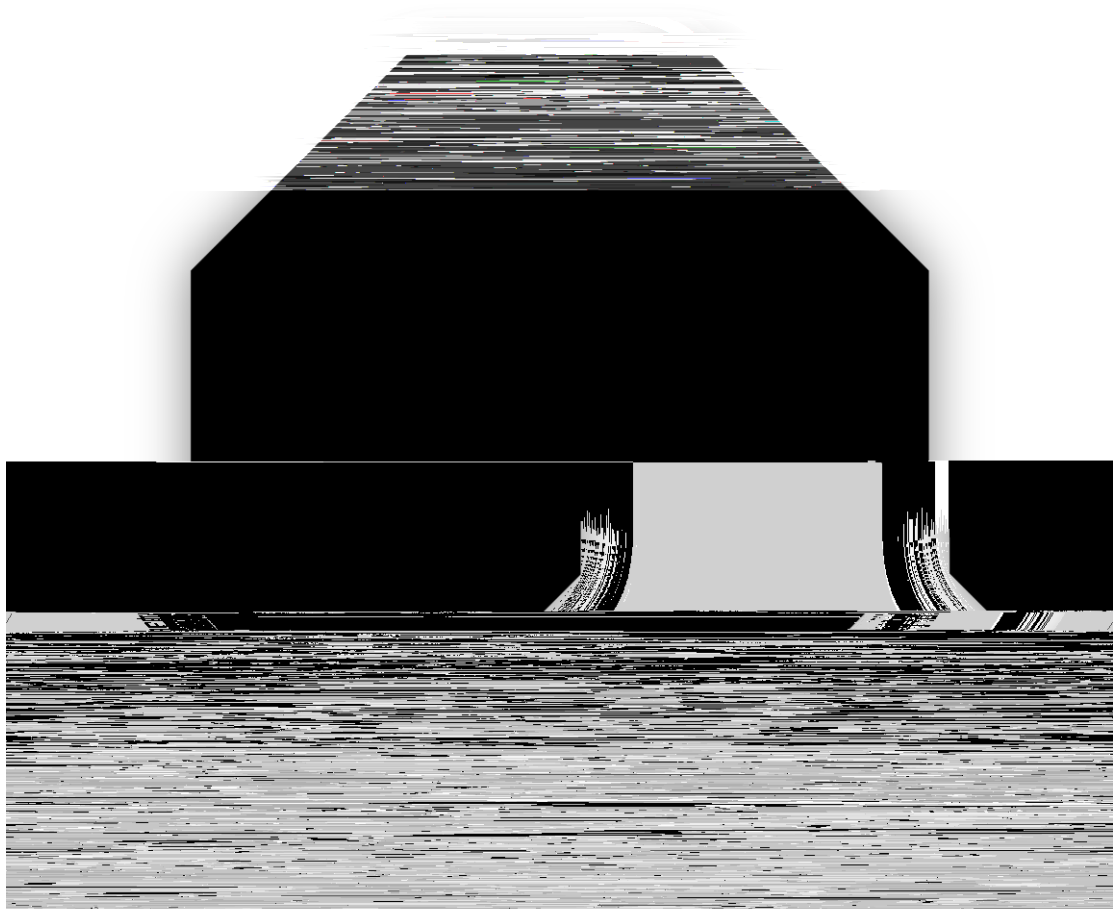
1. Summary

Background
TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch (hereinafter referred to as TÜV SÜD) was commissioned by Zhongtian Radio Frequency Cable Co., Ltd. to verify GHG emission. Between 2025-02-17~2025-05-12, TÜV SÜD auditor Johny Wang and Tony Sun conducted the carbon verification activities of the responsible party to evaluate the conformity of GHG related verification specification for the organization, including the principles and requirements of the standards or GHG scheme that applied to the verification Category.
Verification conclusion

After verification, TÜV SÜD Certification and Testing (China) Co., Ltd. reached conclusions as below:

- 1) The Organization's GHG emissions verification verifies claims made by responsible party in accordance with standard ISO 14064-3:2019.
- 2) GHG-

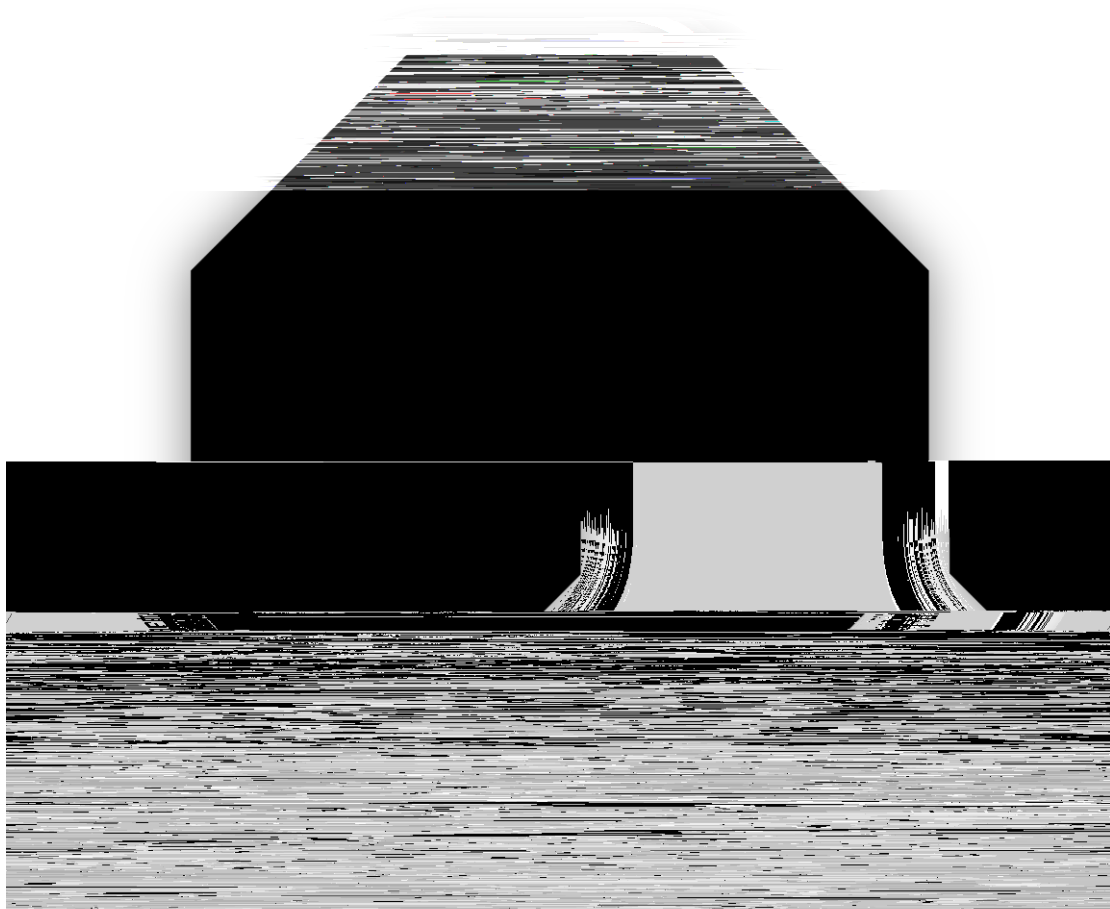




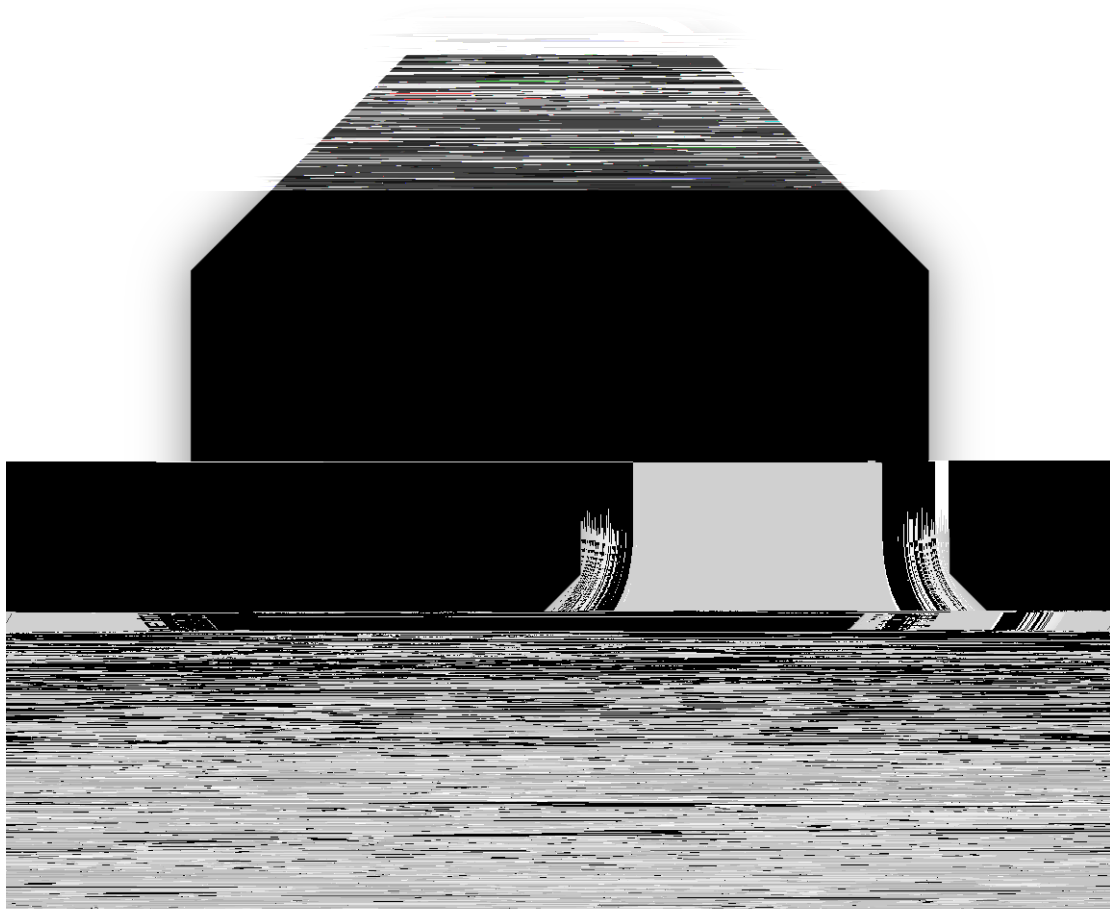
our commitment to the society and employees' health, safety and environment, and adhere to the resource-saving and environment-friendly road.

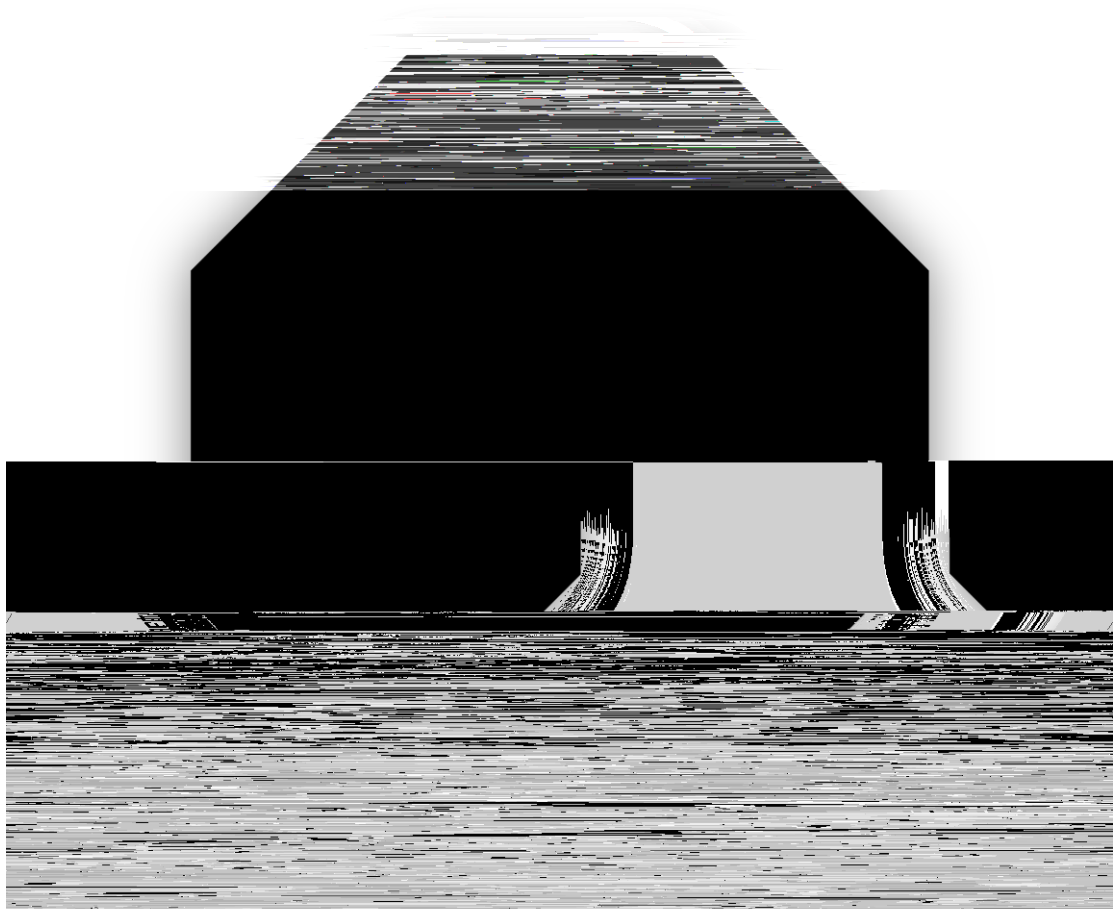
Responsible Party Greenhouse Gas Claim (Self-declaration)

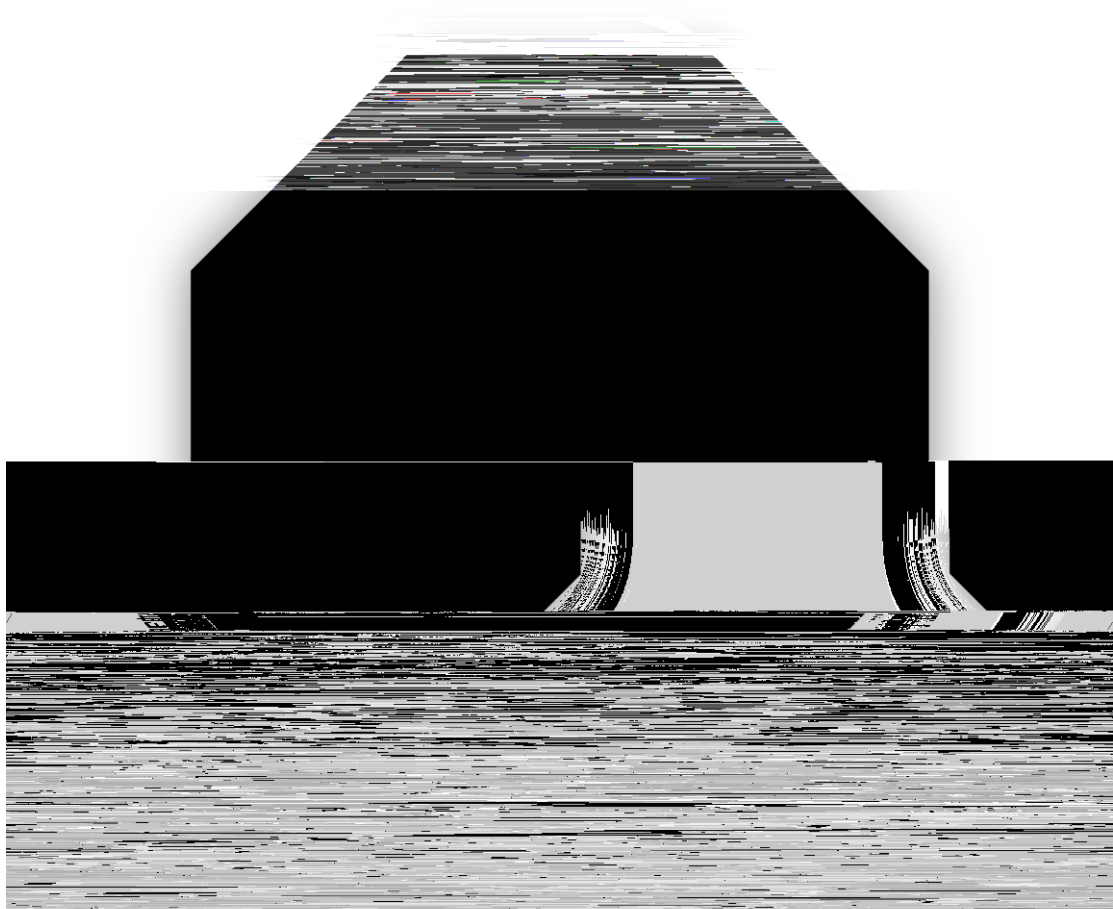
The total GHG emissions of Zhongtian Radio Frequency Cable Co., Ltd.



- | | |
|---------------------|---|
| | ☒ Non-biogenic GHG emissions and removals |
| Quantified emission | ☒ Anthropogenic biogenic CO ₂ emissions and removals |
| source attributes | ☒ Anthropogenic biogenic emissions and removals of other GHGs |
| | ☐ Non-anthropogenic biogenic GHG emissions and removals |







3.2. Assessment of GHG data and information

Activity data and emission factor compliance

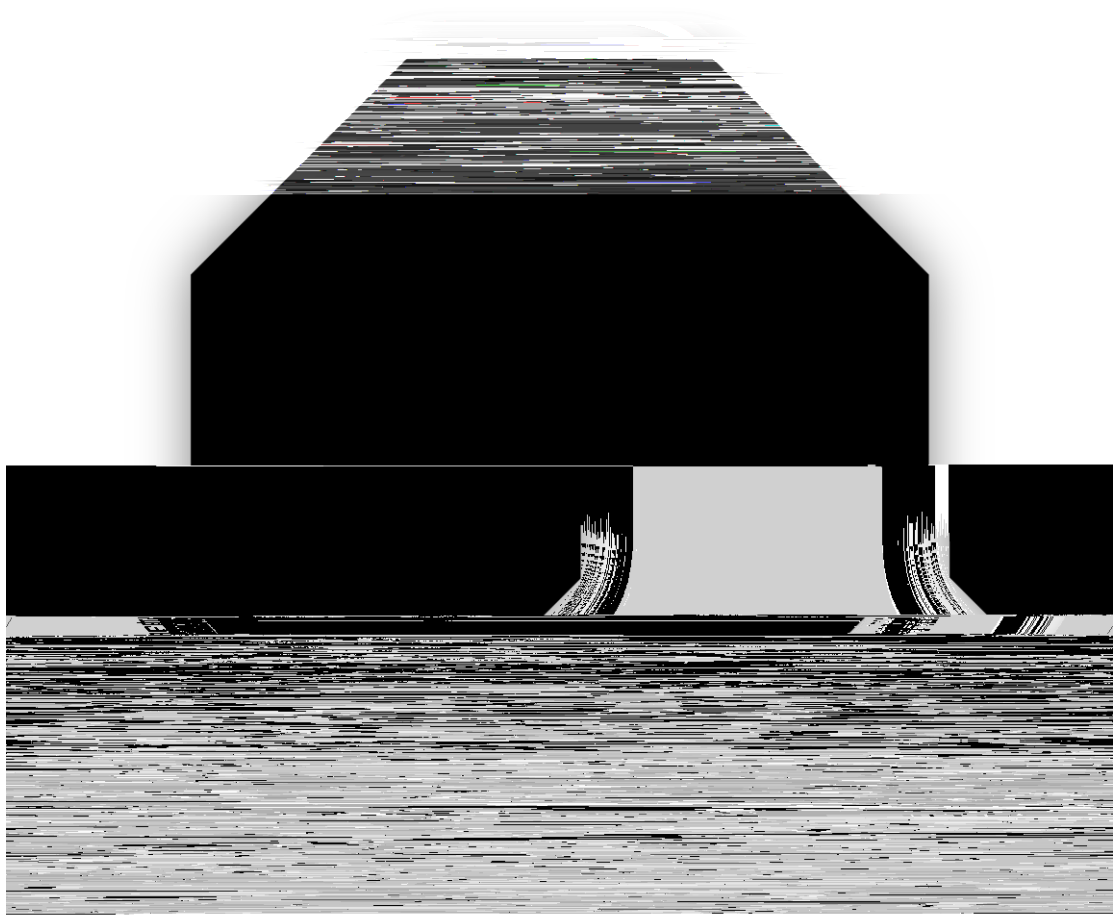
The verification team verified each activity data in the enterprise greenhouse gas emission report submitted by the enterprise. The verification included the values, units and sources of activity data, the values and sources of emission factors, and the GHG calculation process.

The verification information are as follows:

Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
Category 1: direct GHG emissions and removals	Diesel	Diesel forklift	Direct emissions	[REDACTED]			kgCO ₂ /TJ	2006 IPCC Guidelines for National Greenhouse Gas Inventories	Table 3.3.1, Chapter III, Volume II
			Method						
Category 1: direct GHG emissions and removals	Diesel	Diesel forklift	Mass	[REDACTED]			kgCH ₄ /TJ	Table 3.3.1, Chapter III, Volume II	[REDACTED]
			Method						
Category 1: direct GHG emissions and removals	Diesel	Diesel forklift	Mass	[REDACTED]			kgN ₂ O/TJ	Table 3.3.1, Chapter III, Volume II	[REDACTED]
			Method						
Category 1: direct GHG emissions and removals	Diesel	Diesel forklift	Heat	[REDACTED]			[REDACTED]	[REDACTED]	[REDACTED]
			Method						

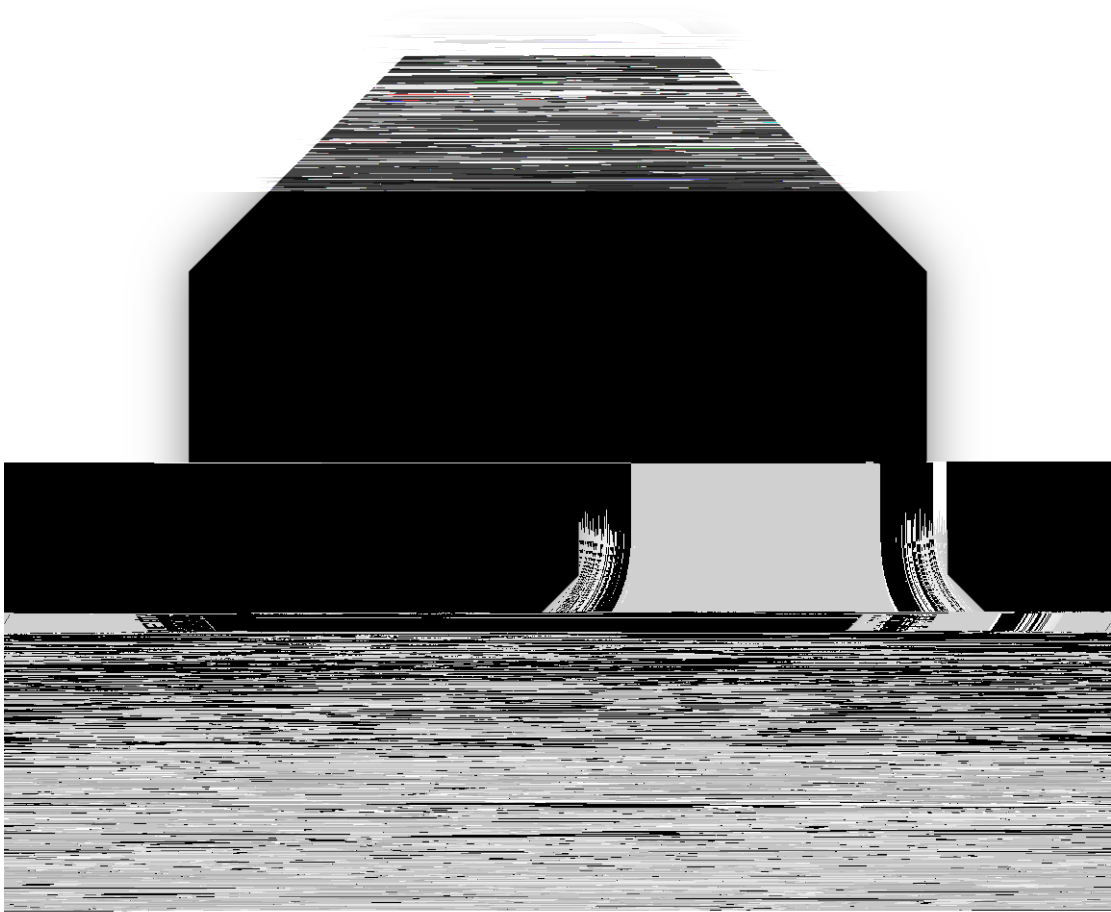


Emission categories	Emission source	Facilities or process
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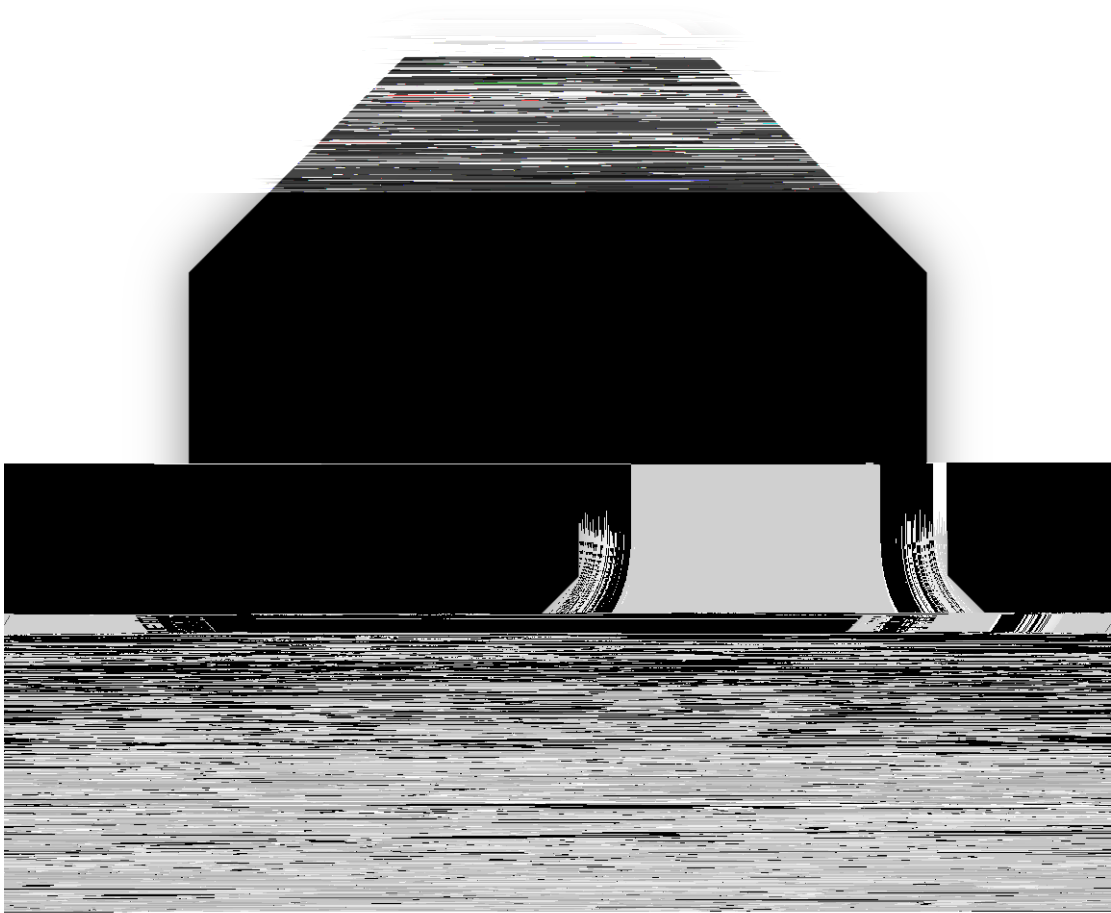




Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Imported electricity	Zhongtian Photovoltaic Technology Co., Ltd. sourced electricity	Electricity and heat: ☒ Location-based method ☐ Market-based method	1997920.00	kWh	Enterprise's power statistics	0.0000 kgCO ₂ /kWh		0.0000
	Imported electricity	Rooftop photovoltaic electricity	Electricity: ☒ Location-based method ☐ Market-based method				CO ₂ /kWh		0.0000
Category 3: indirect GHG emissions from transportation	Employee commuting vehicle	Outsourcing vehicle	☒ Distance-based method ☐ Spend-based method ☐ Not applicable	446277.60	km	Employee commuting statistics	0.3632 kgCO ₂ /km	Ecoinvent 3.10 database	162.0829

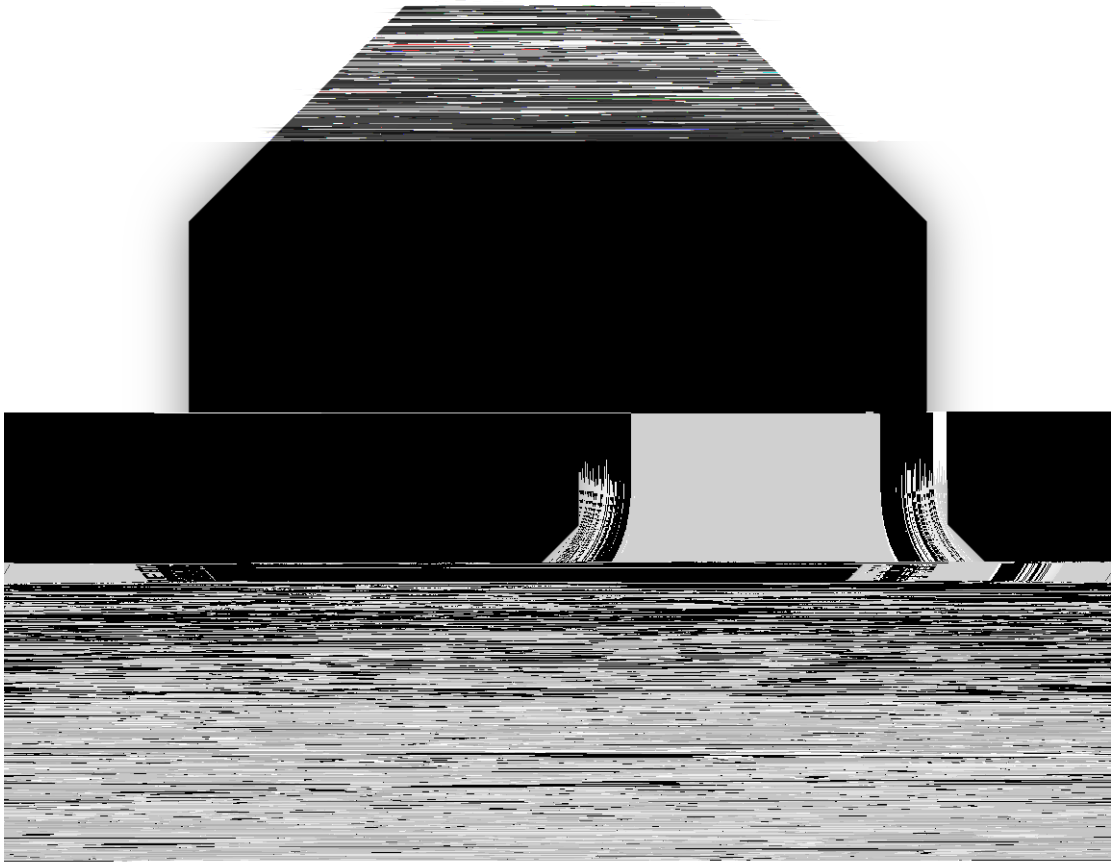


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Employee taxi traveling	Taxi traveling	Transportation, travel and commuting: ☐ Fuel-based method ☒ Distance-based method ☐ Spend-based method ☐ Not applicable	1110.00	pkm	Employee traveling compensate record	0.3632 kgCO ₂ e/km	Ecoinvent 3.10 database	0.4031
	Employee plane traveling	Plane traveling	Transportation, travel and commuting: ☐ Fuel-based method ☐ Distance-based method ☐ Spend-based method ☐ Not applicable			Employee traveling compensate record	0.109 kgCO ₂ e/km	Ecoinvent 3.10 database	17.5831

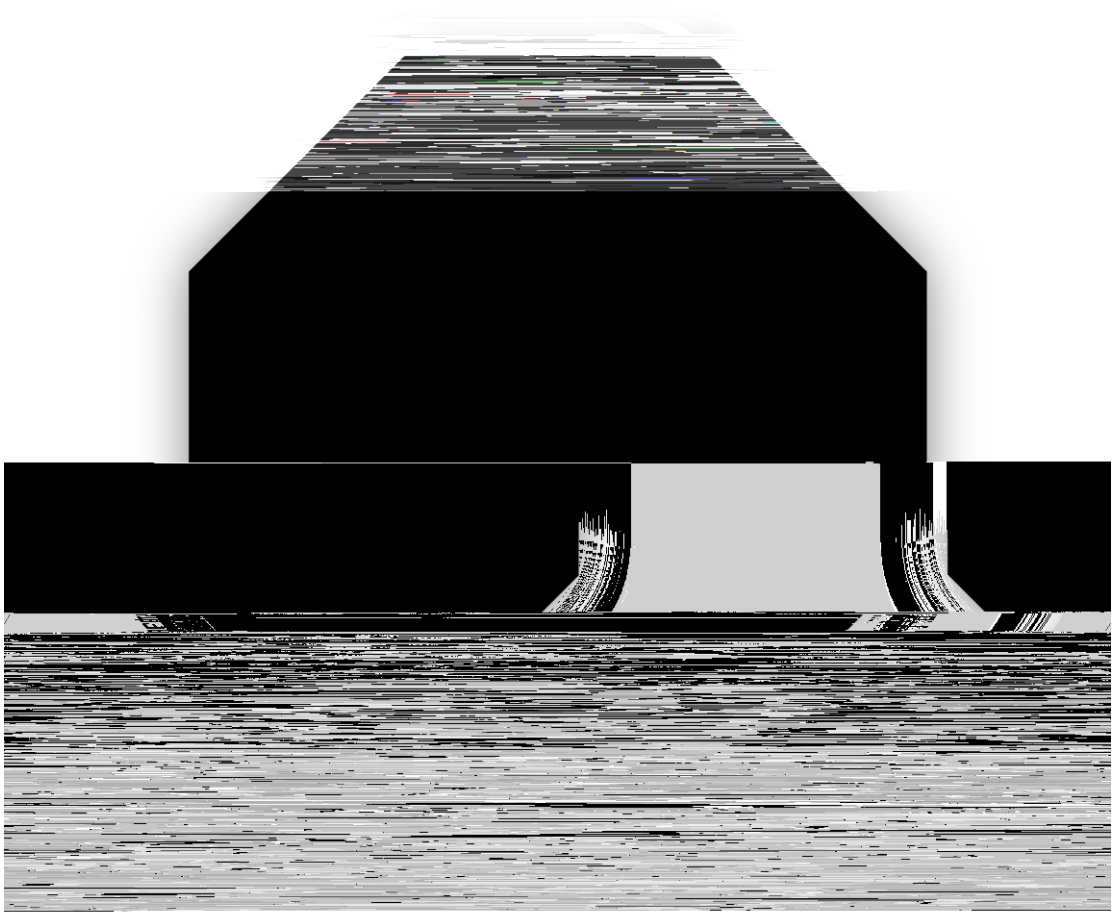
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Employee rail traveling	Rail traveling	Transportation, travel and commuting: ☐ Fuel-based method ☒ Distance-based method ☐ Spend-based method ☐ Not applicable	130565.00	pkm	Employee traveling compensate record	0.0749 kgCO ₂ e/pkm	Ecoinvent 3.10 database	9.7753
	Employee subway traveling	Subway traveling	☐ Fuel-based method ☐ Distance-based method ☐ Spend-based method ☐ Not applicable			Employee traveling compensate record	0.0000 kgCO ₂ e/pkm	Notice of the Beijing Municipal Environmental Protection Administration	

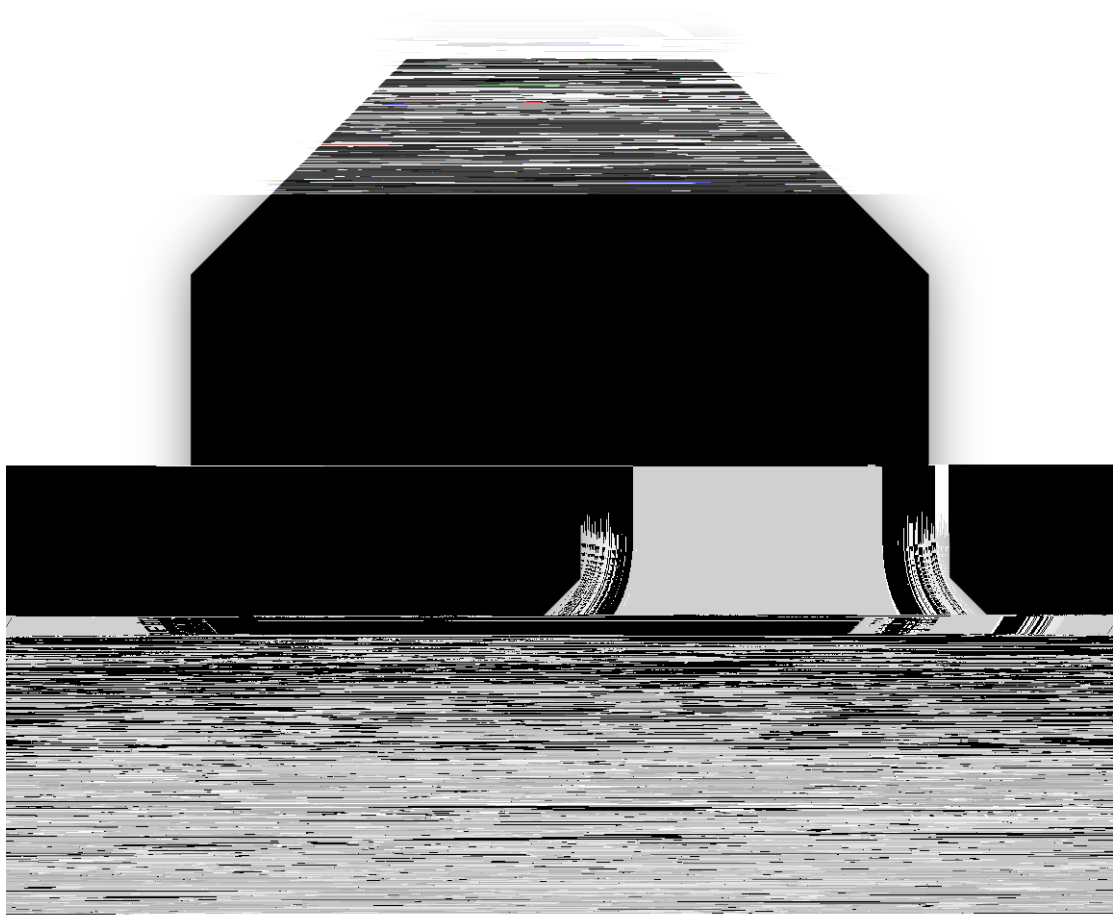


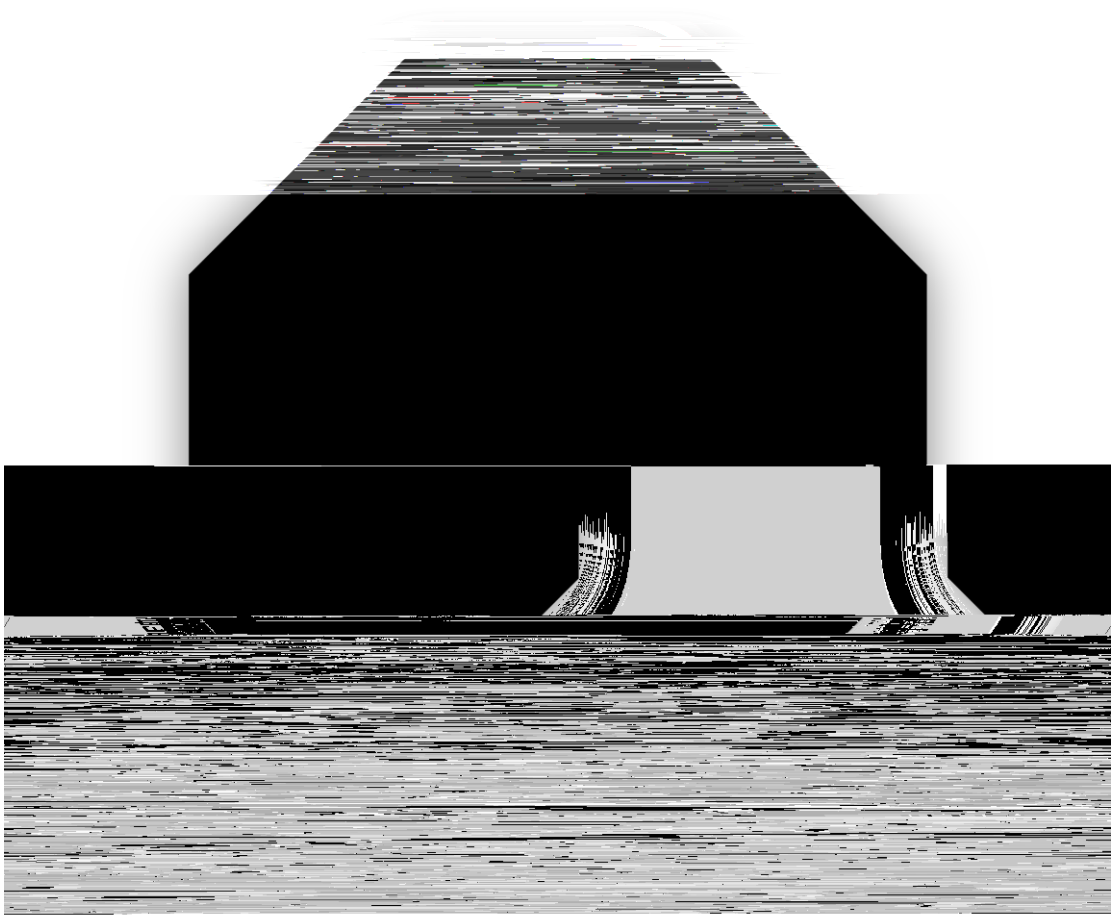
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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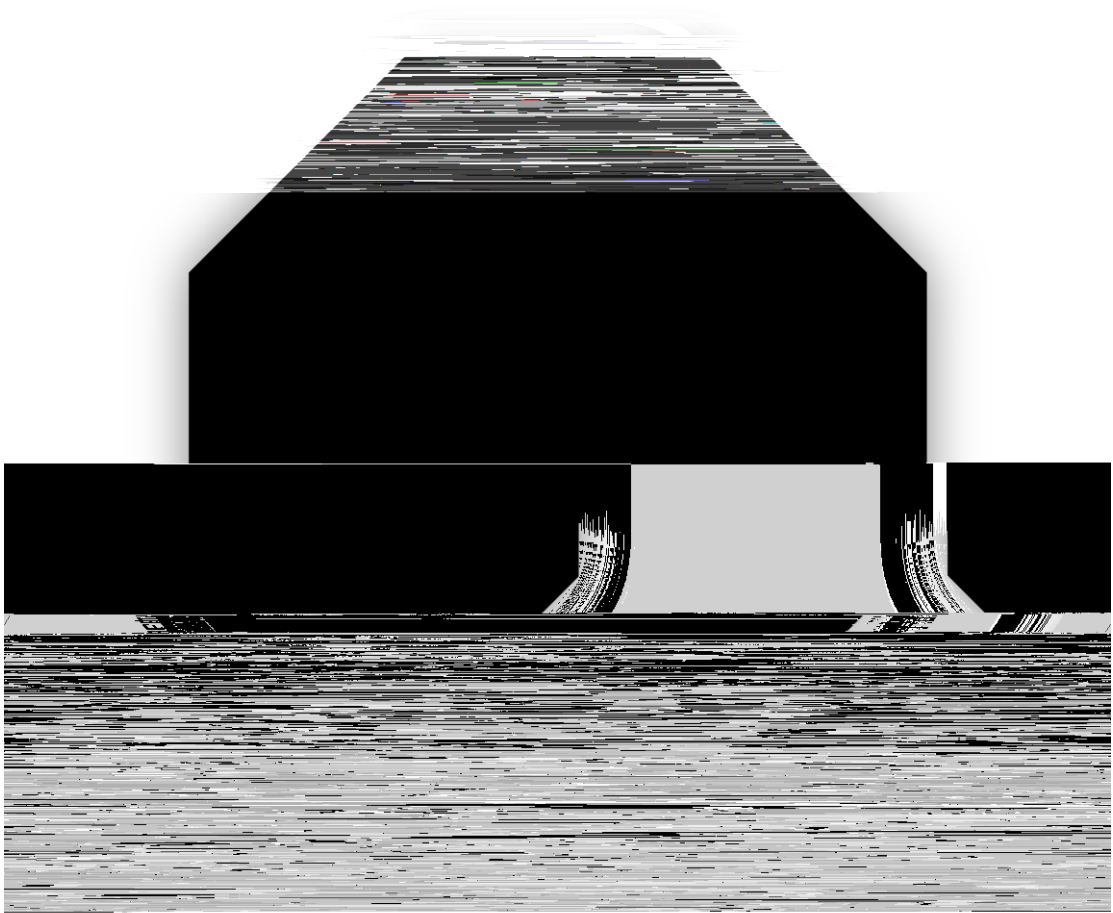
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Upstream material transportation	Upstream material road transportation 3.5t-16t	Transportation, travel and commuting: ☐ Fuel-based method ☒ Distance-based method ☐ Spend-based method ☐ Not applicable	5317580.13	tkm	Raw material acquisition record	0.2451 kgCO ₂ e/tkm	Ecoinvent 3.10 database	1303.2020
	Upstream material transportation	Upstream material road transportation 1t	Transportation, travel and commuting: ☐ Fuel-based method ☒ Distance-based method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	0.194 kgCO ₂ e/tkm	Ecoinvent 3.10 database	2287.1907







Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
Category 4: indirect GHG emissions from products used by organization	Production equipment	Production equipment cost	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☐ Average-cost method ☒ Spend-based method ☐ Not applicable		ten thousand RMB	Stationary equipment	1.9524 tCO ₂ e/ten thousand RMB	Chinese Environmentally Extended Input-Output database adjusted by 2024 PPI	2490.1583
	Office equipment	Computer	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	54.67	p	2024 office equipment record	596.5874 kgCO ₂ e/p	Ecoinvent 3.10 database	32.6133

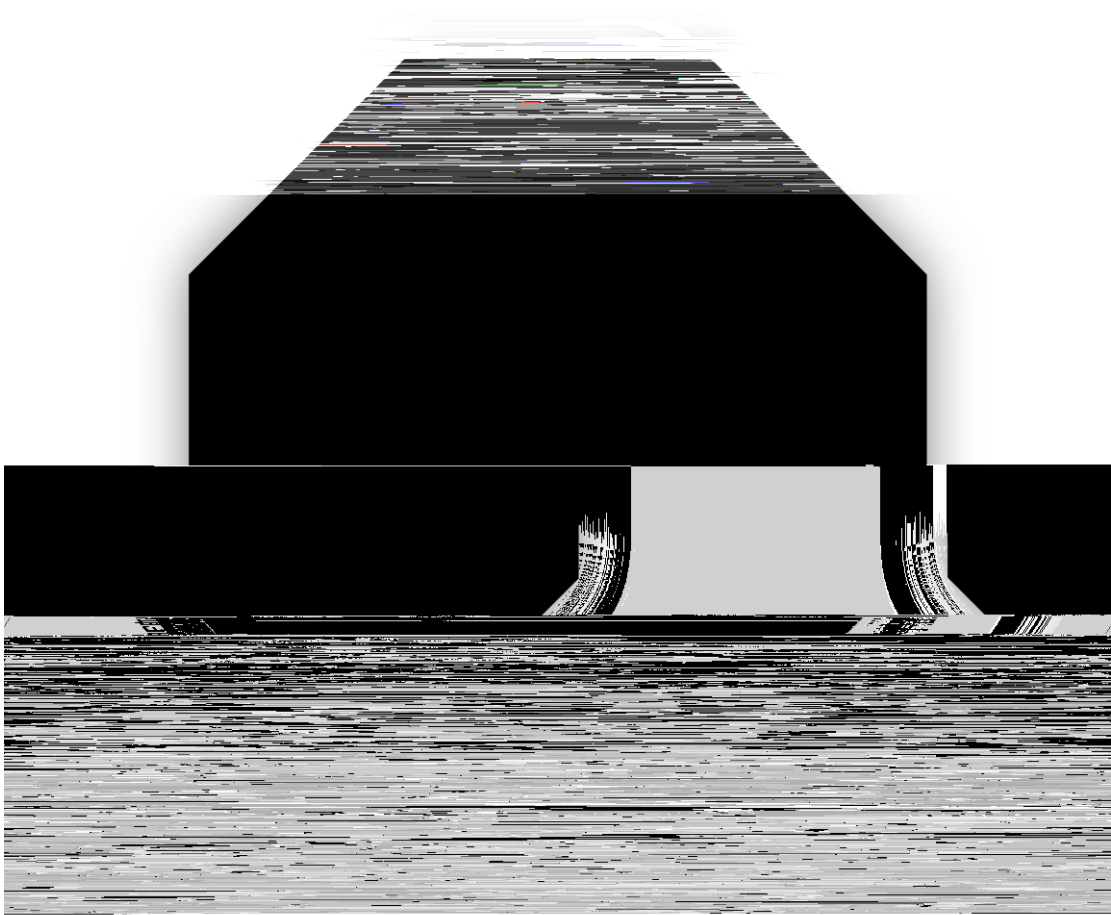


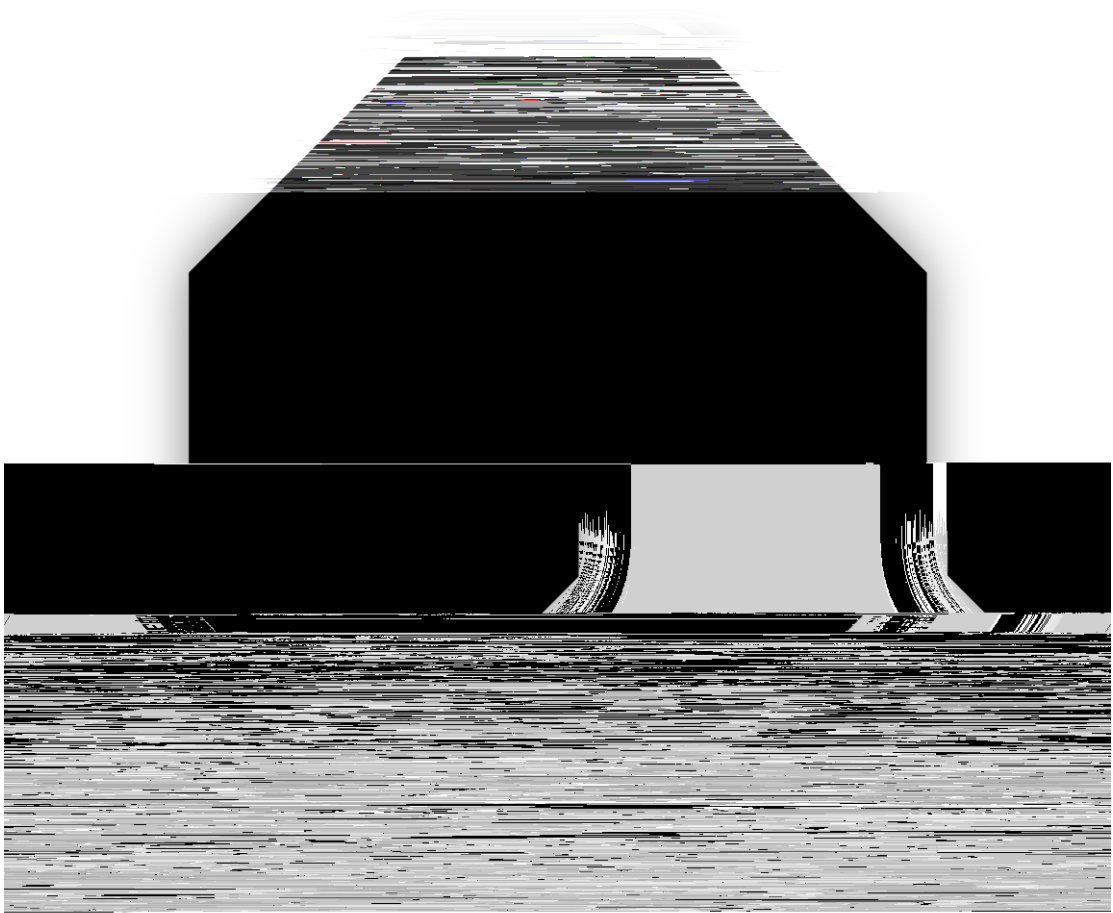
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased service	Dining cost	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☐ Average-data method ☒ Spend-based method ☐ Not applicable		ten thousand RMB	2024 dining cost	0.7397 tCO ₂ e/ten thousand RMB	Chinese Environmentally Extended Input-Output database adjusted by 2024 PPI	97.8039
	Purchased service	Processing service	☐ Hybrid method ☐ Average-data method ☒ Spend-based method ☐ Not applicable	193.27	thousand RMB	Raw material acquisition record	1.7796 tCO ₂ e/ten thousand RMB	Chinese Environmentally Extended Input-Output database adjusted by 2024 PPI	343.9419

A black and white photograph showing a large, modern architectural structure, possibly a bridge or a large industrial building. The structure features a prominent, curved, metallic facade that reflects light, creating a shimmering effect. The building is set against a dark, solid background, which makes the illuminated structure stand out. The perspective is from a low angle, looking up at the building, emphasizing its scale and height. The overall composition is minimalist and focuses on the geometric forms and textures of the architecture.

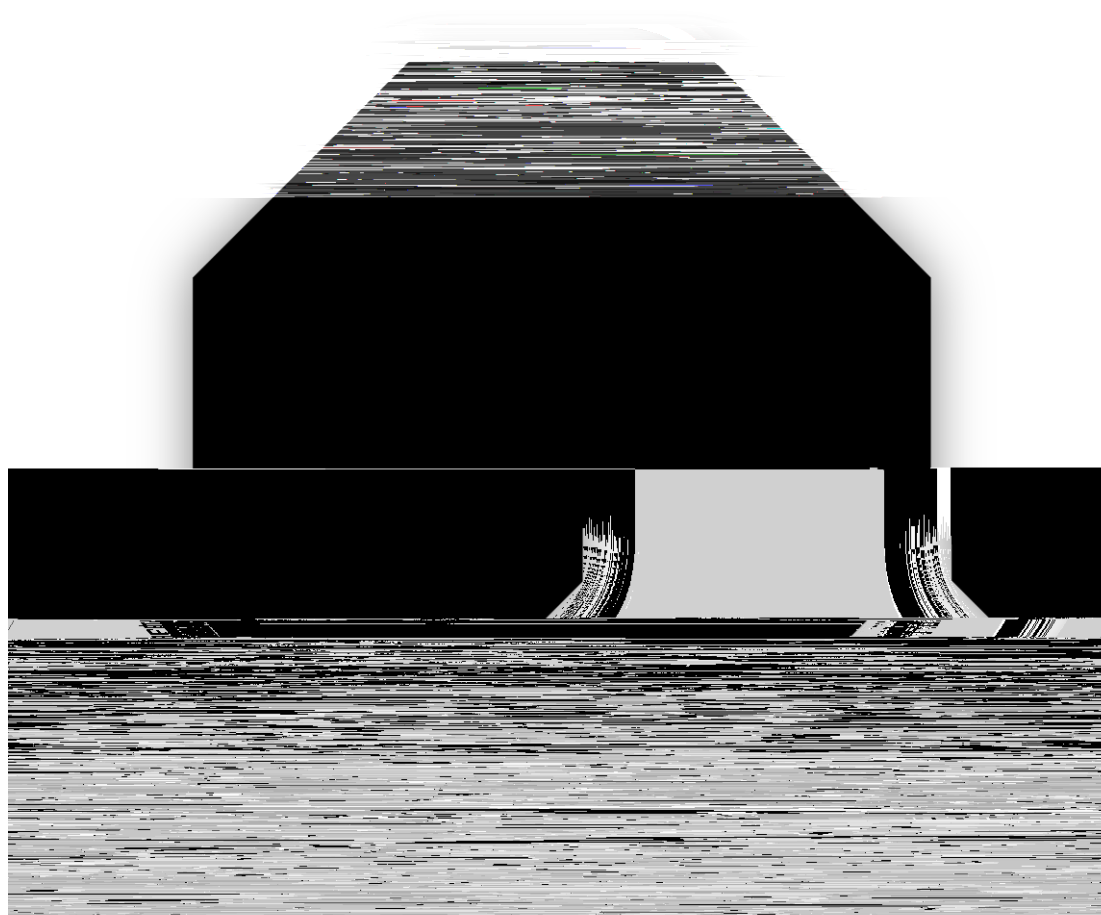


Emission categories	Emission source	Facilities or production
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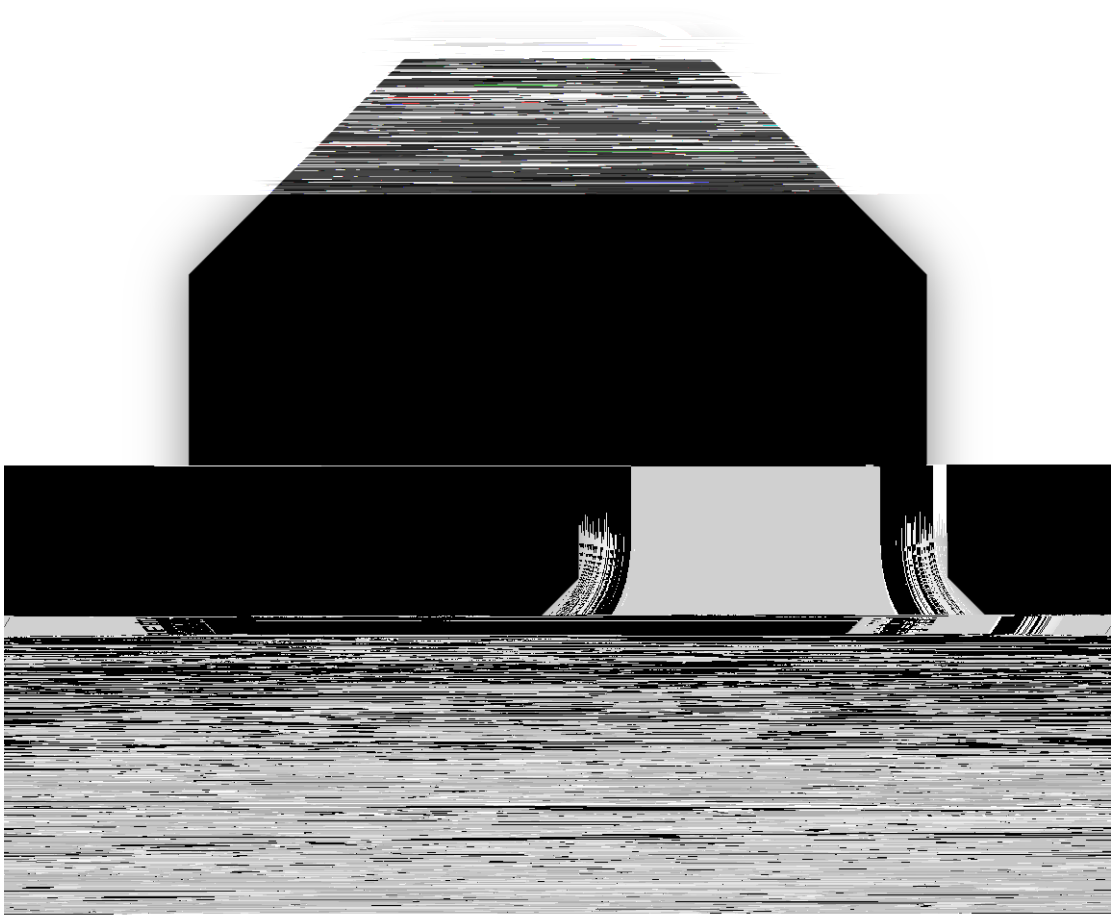


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	HDPE material	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material	1562 kgCO ₂ e/kg	Ecoinvent 3.10 database	11576.4465
	Purchased raw material	HDPE material	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	889845.00	kg	Raw material acquisition record	3.3465 kgCO ₂ e/kg	Ecoinvent 3.10 database	2977.1738

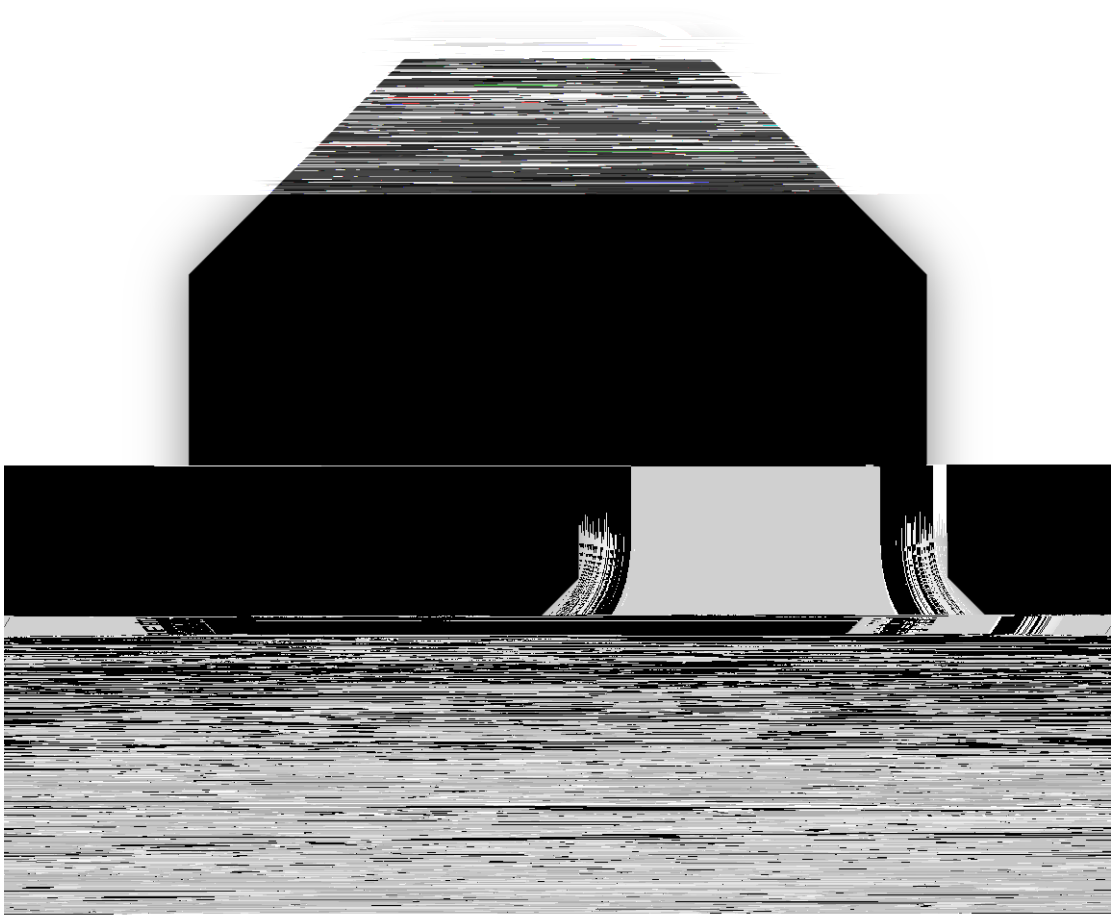




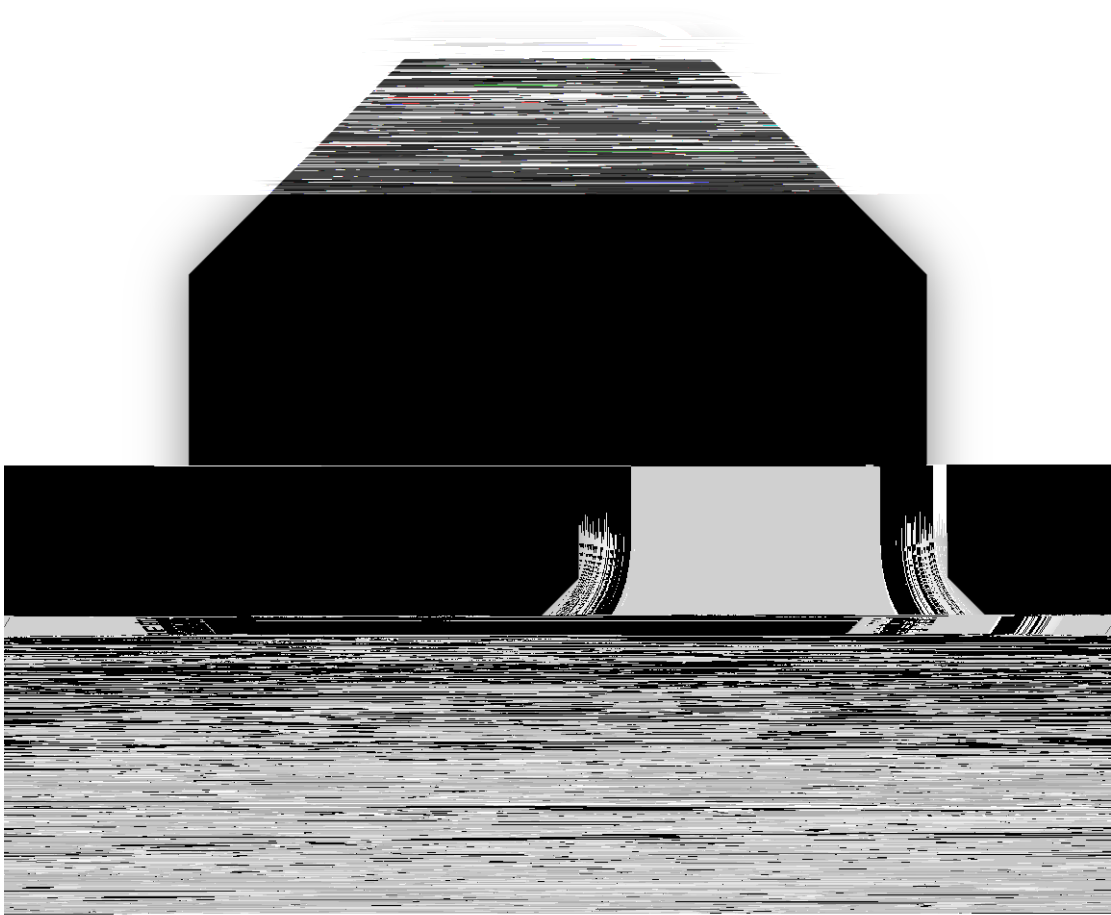
Emission categories	Emission source	Facilities or process
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
			Goods, services and capital goods:						
			☐ Supplier-specific method						
	Purchased raw material	LSZH material	☐ Hybrid method			Raw material	1529 kgCO ₂ e/kg	Ecoinvent 3.10 datab	p ²
			☒ Average method						
			☐ Special method						
			☐ Not a method						

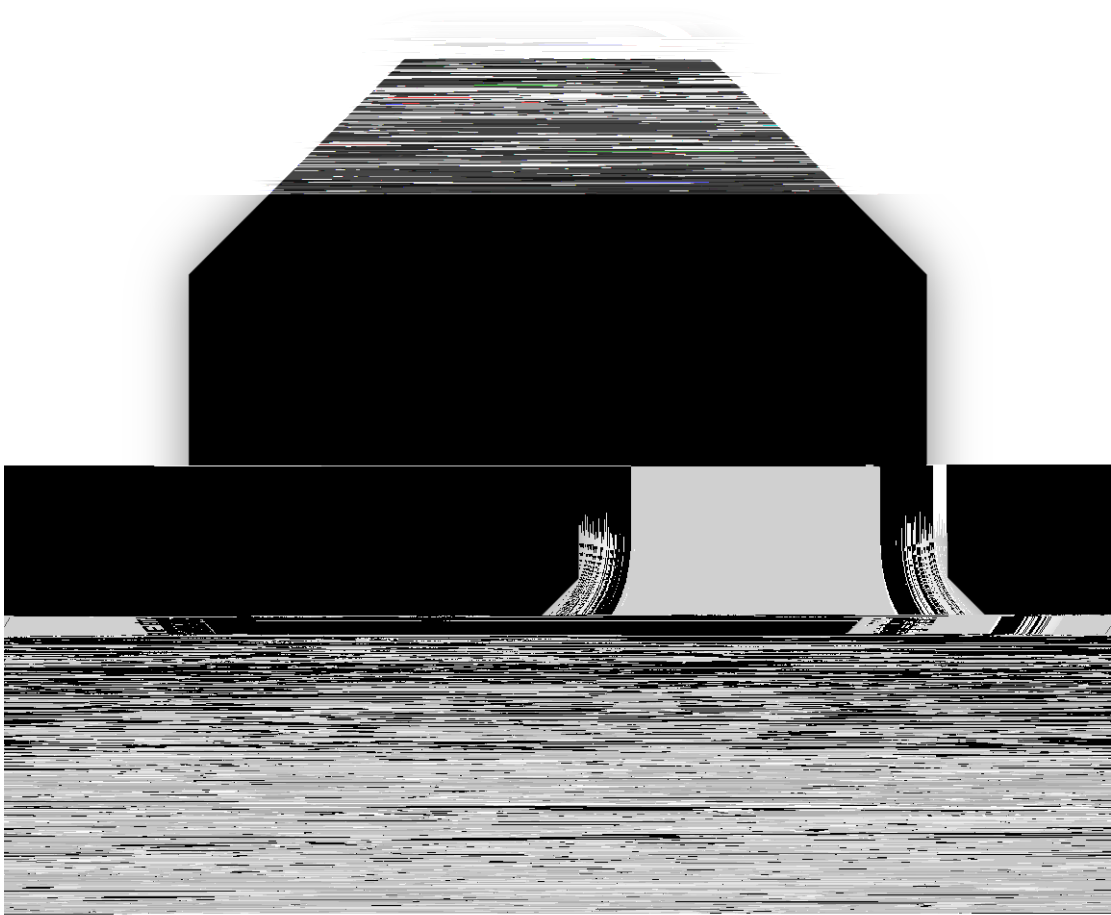


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	PET product	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average method ☐ Specific method ☐ Not applicable			Raw material			

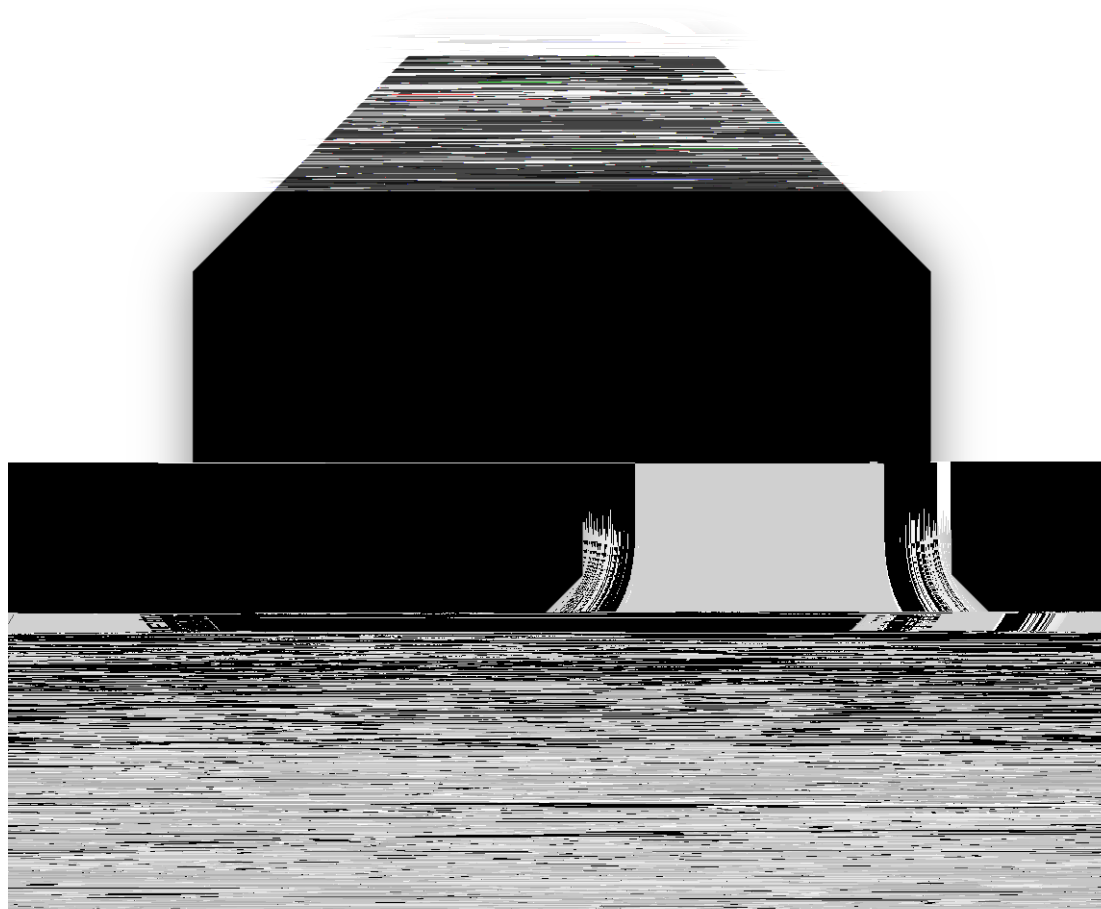


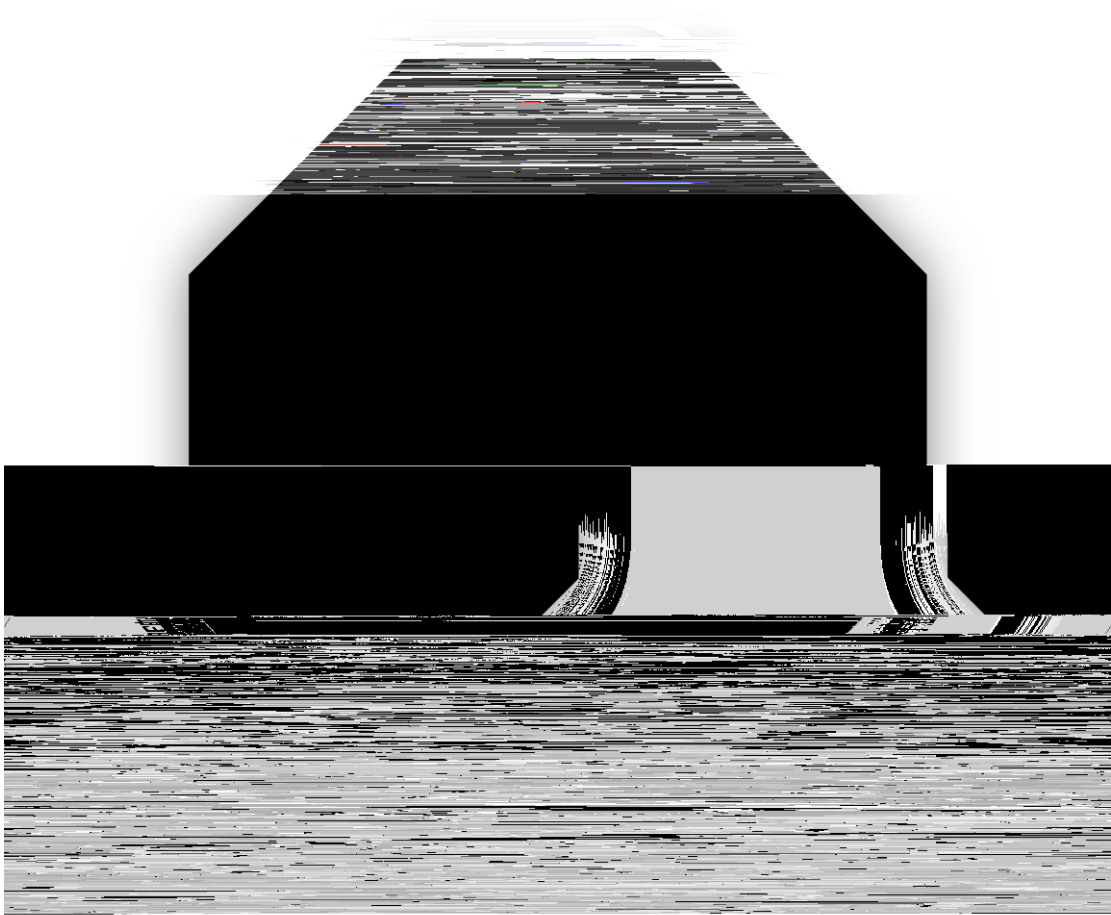


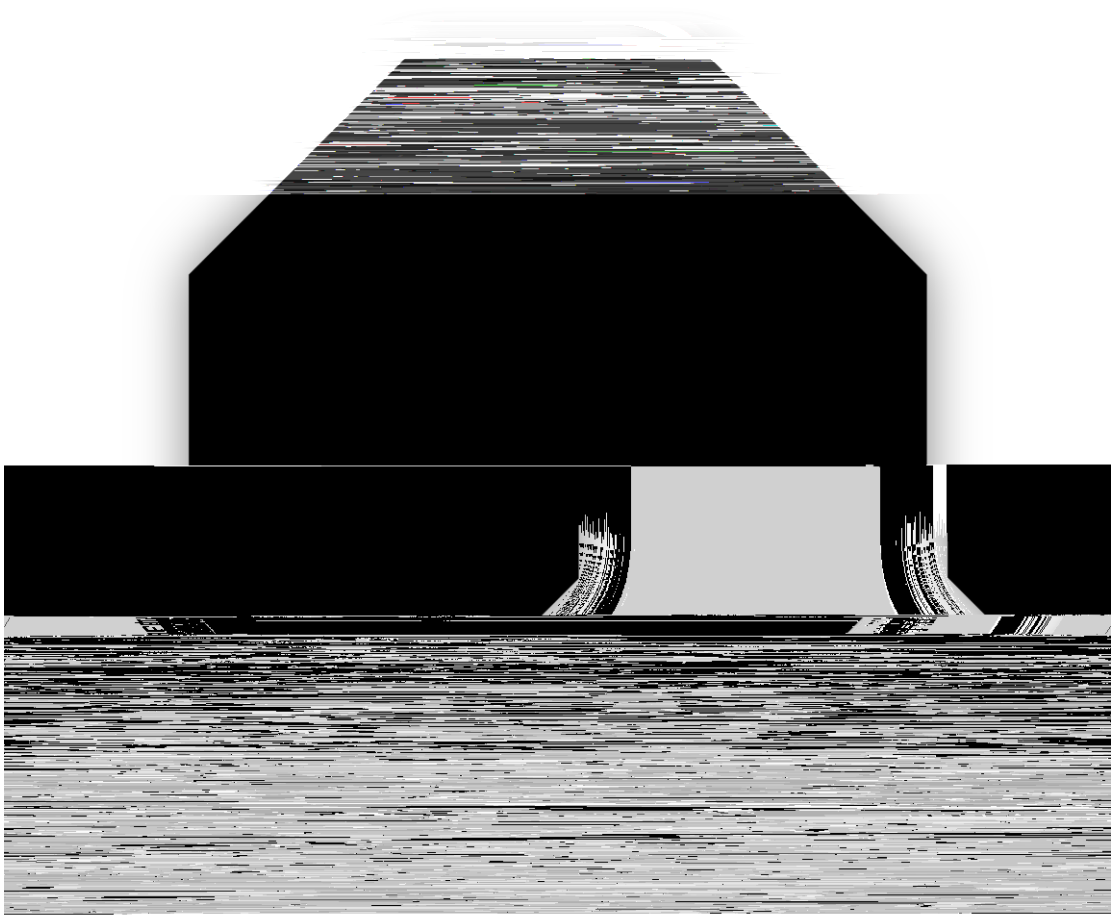
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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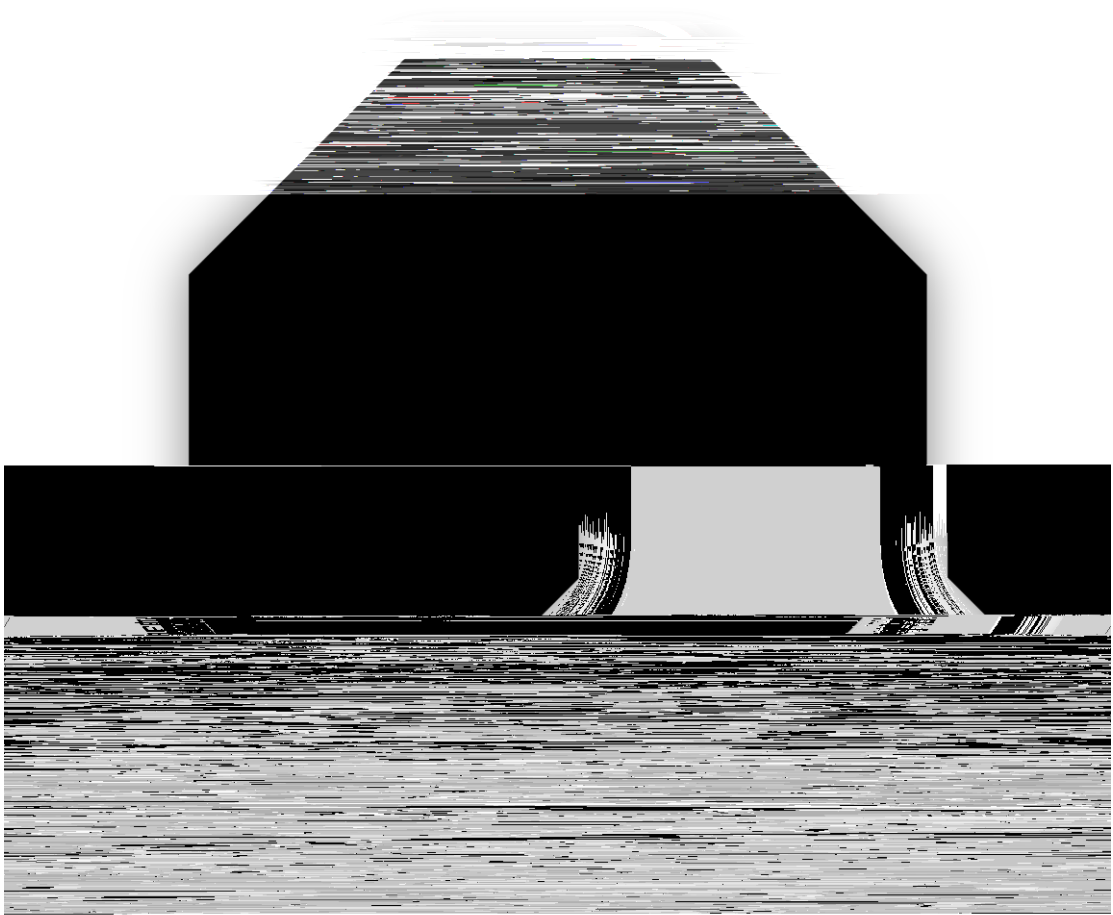


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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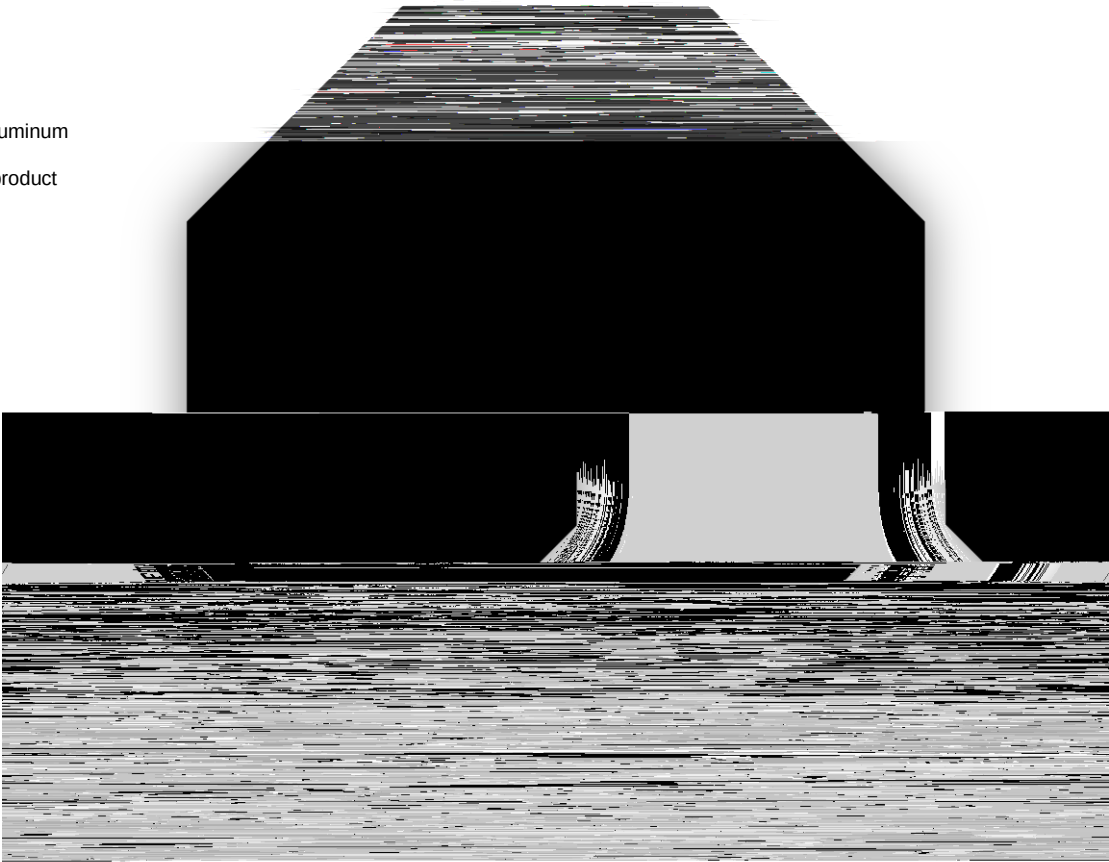






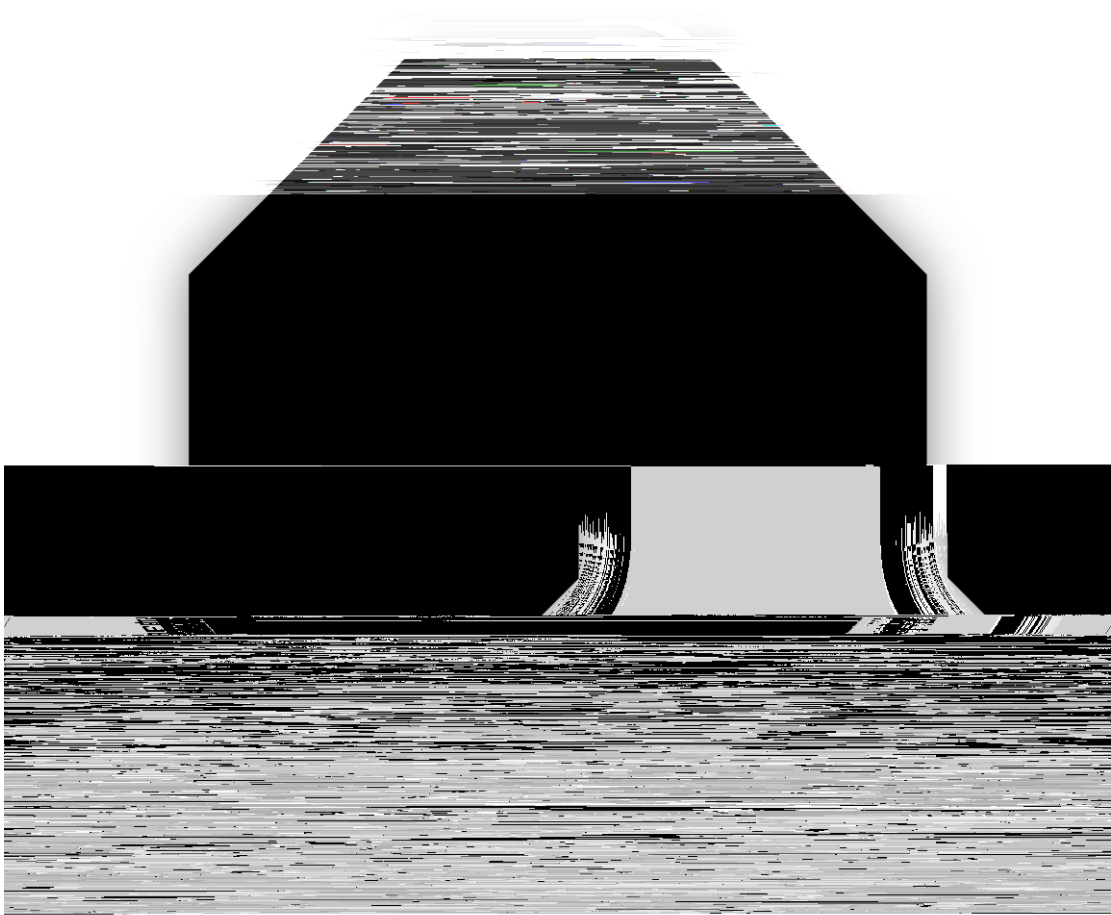


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Aluminum product							



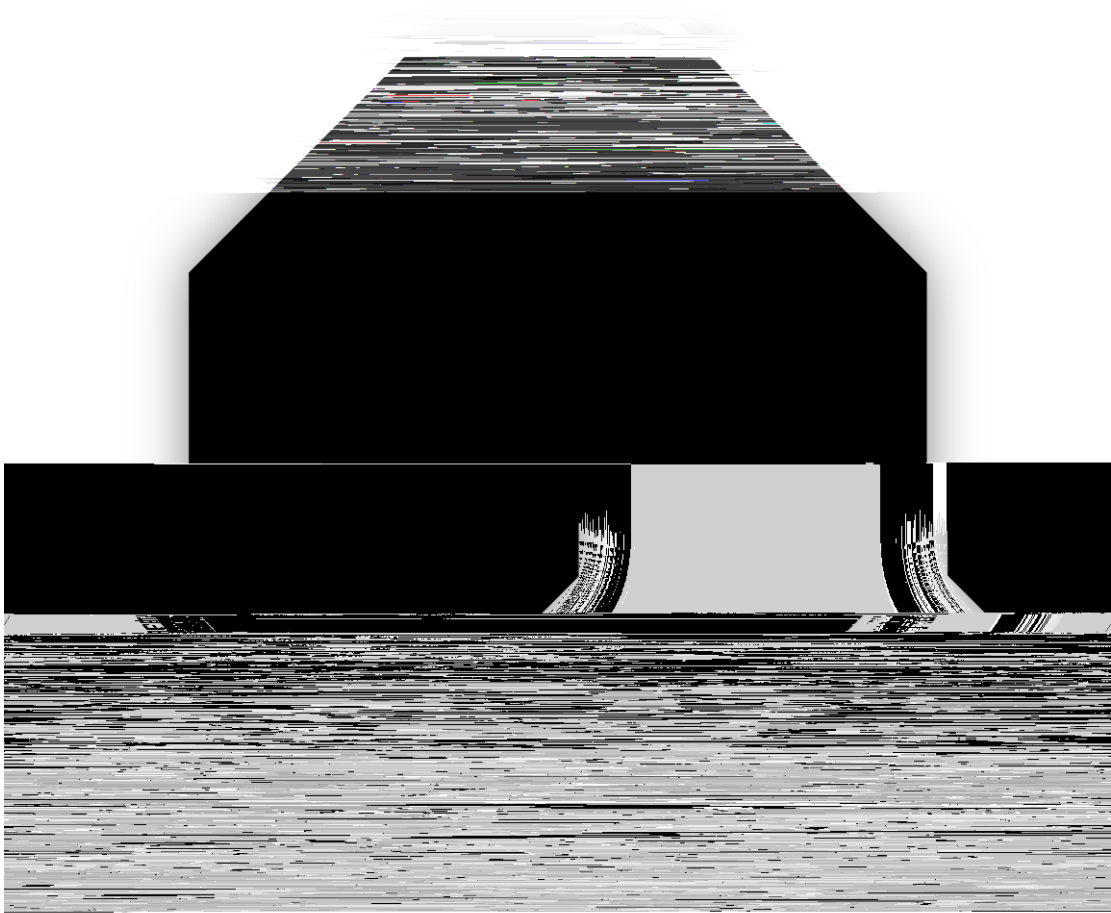
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Nitrogen gas	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	4471 kgCO ₂ e/kg	Ecoinvent 3.10 database	7.0891
	Purchased raw material	Galvanized steel strip	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	3095401.00	kg	Raw material acquisition record	3.0112 kgCO ₂ e/kg	Ecoinvent 3.10 database	9321.1004

Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Galvanized steel wire	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	9767 kgCO ₂ e/kg	Ecoinvent 3.10 database	23.3664
	Purchased raw material	Cable	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	10225216.85	kg	Raw material acquisition record	6.2623 kgCO ₂ e/kg	Ecoinvent 3.10 database	64238.2961



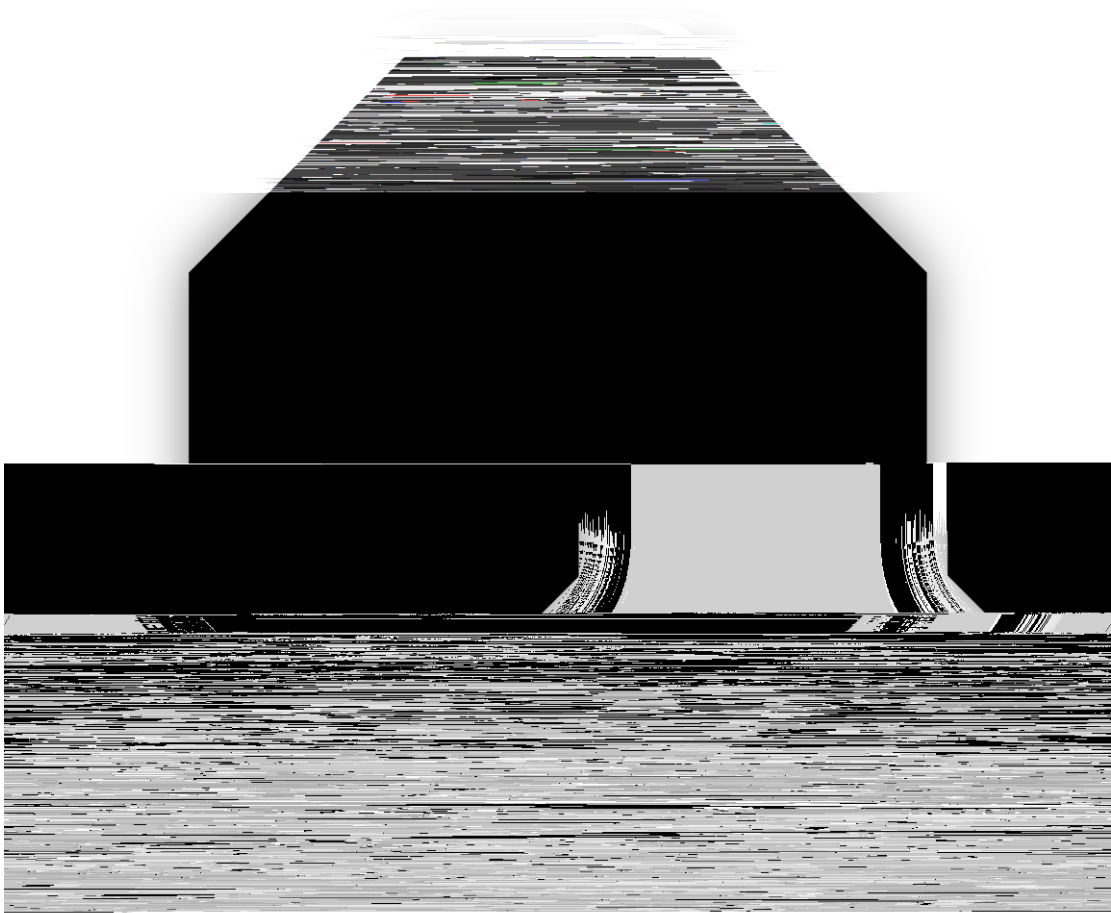


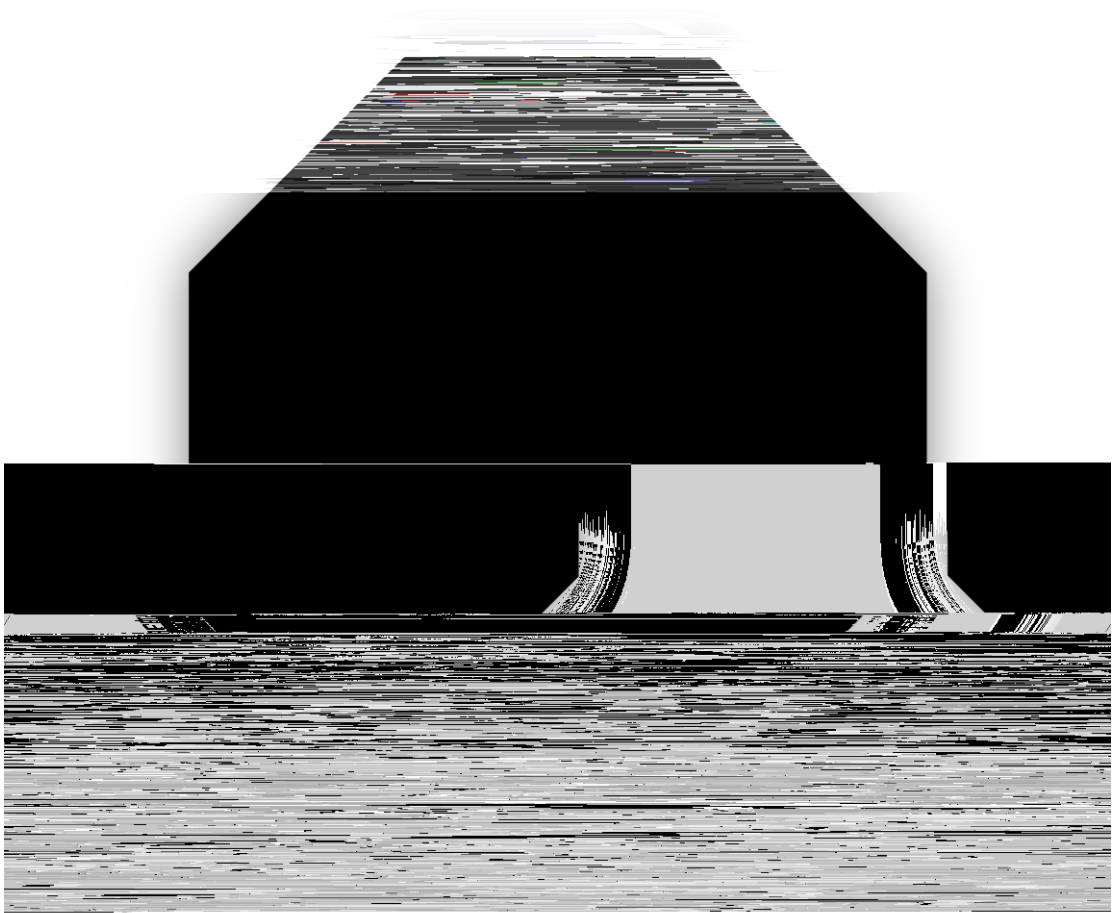
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit
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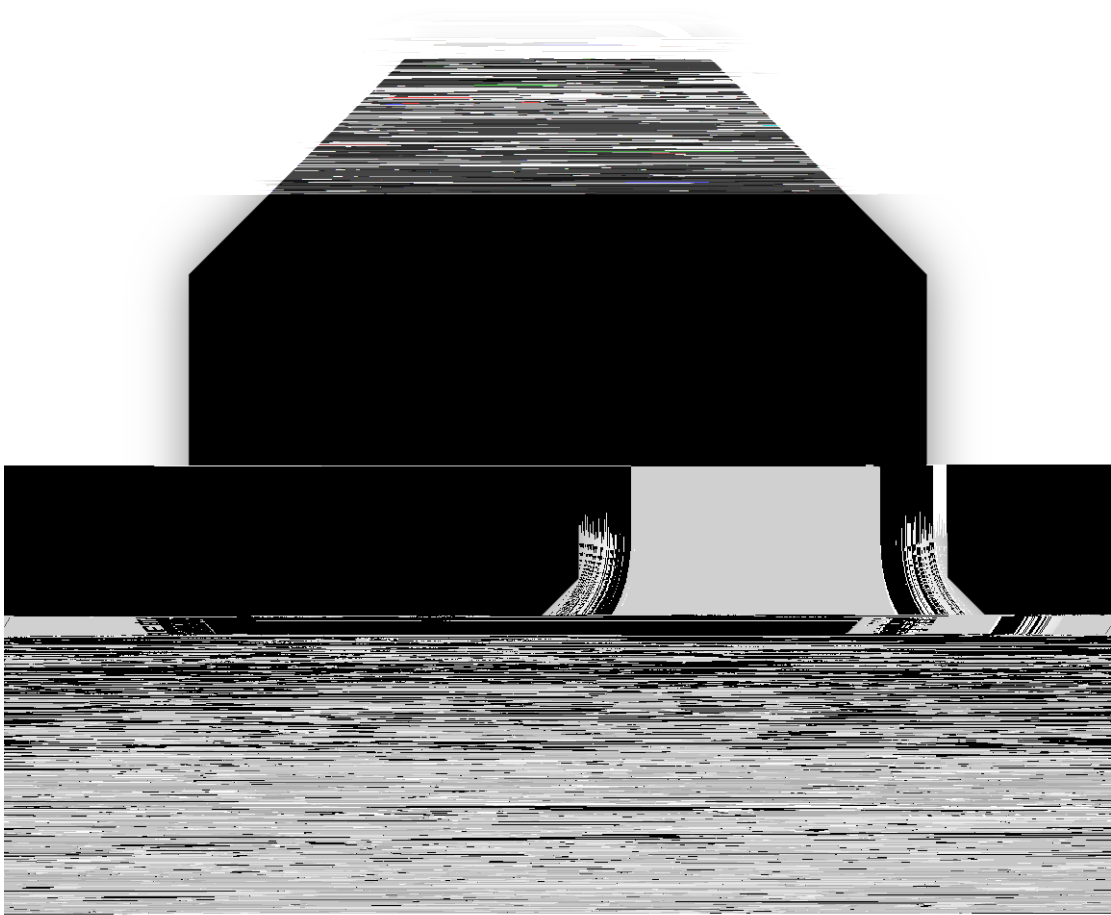


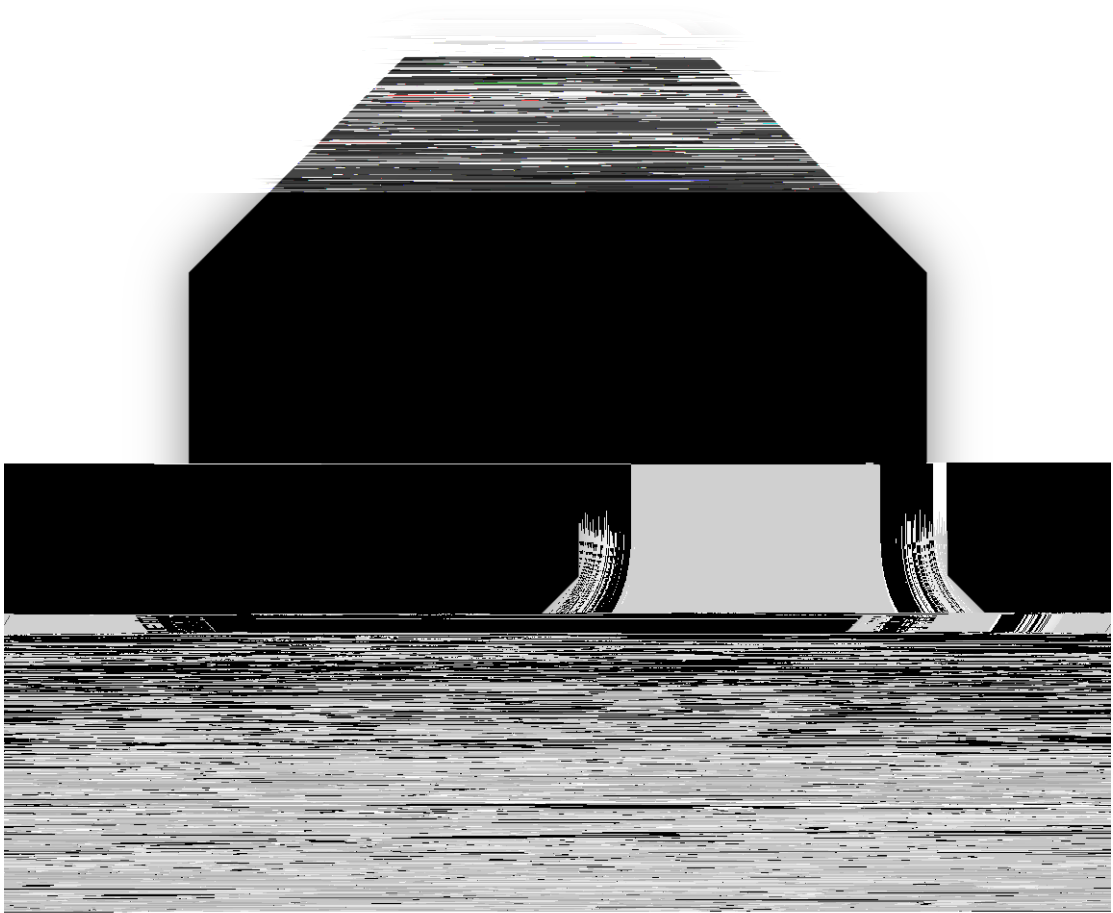


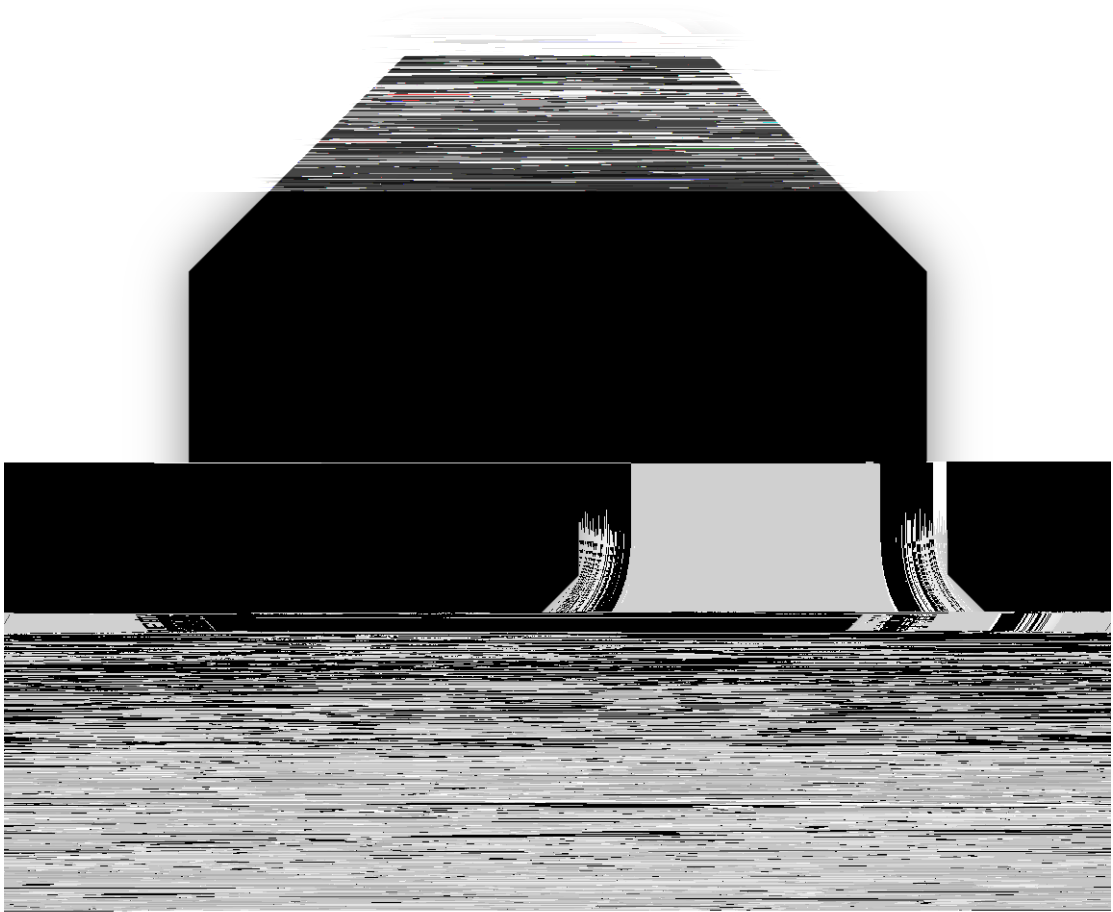
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Plywood	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average method ☐ Specific method ☐ Not applicable			Raw material	8998 kgCO ₂ e/kg	Ecoinvent 3.10 database	1014.0485
	Purchased raw material	metal processing							

Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Poly olefin material	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	5188 kgCO ₂ e/kg	Ecoinvent 3.10 database	2.9218
	Purchased raw material	Aluminum alloy product	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	3000.00	kg	Raw material acquisition record	12.0843 kgCO ₂ e/kg	Ecoinvent 3.10 database	36.2528

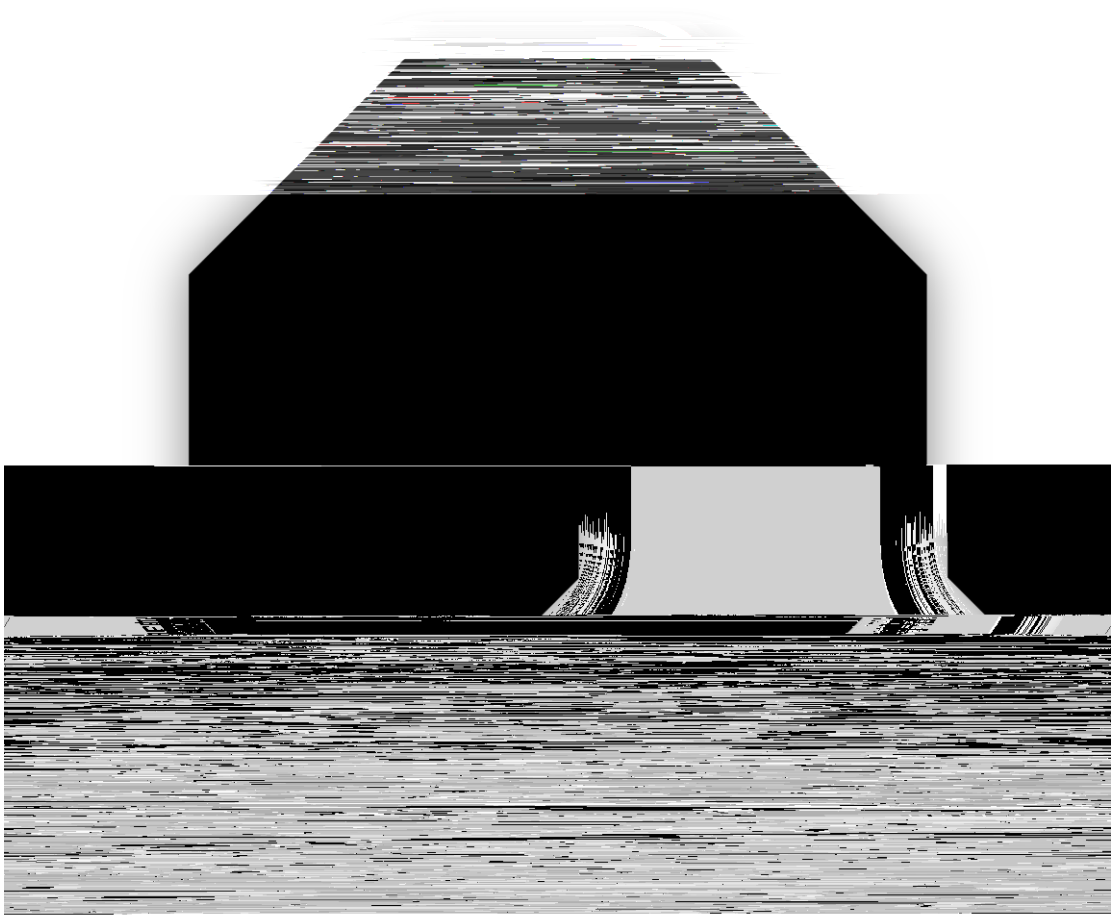
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Wood pallet	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	3291 kgCO ₂ e/kg	Ecoinvent 3.10 database	1090.6983
	Purchased raw material	Nylon material	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	110.30	kg	Raw material acquisition record	8.2397 kgCO ₂ e/kg	Ecoinvent 3.10 database	0.9077

Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Nylon product	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	8859 kgCO ₂ e/kg	Ecoinvent 3.10 database	1.8364
	Purchased raw material	Kraft paper	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	491996.40	kg	Raw material acquisition record	0.9620 kgCO ₂ e/kg	Ecoinvent 3.10 database	473805.8

Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Hot melt adhesive	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Specific method ☐ Not applicable			Raw material	4399 kgCO ₂ e/kg	Ecoinvent 3.10 database	233.9124
	Purchased raw material	Concrete	☐ Hybrid method ☒ Average-data method						

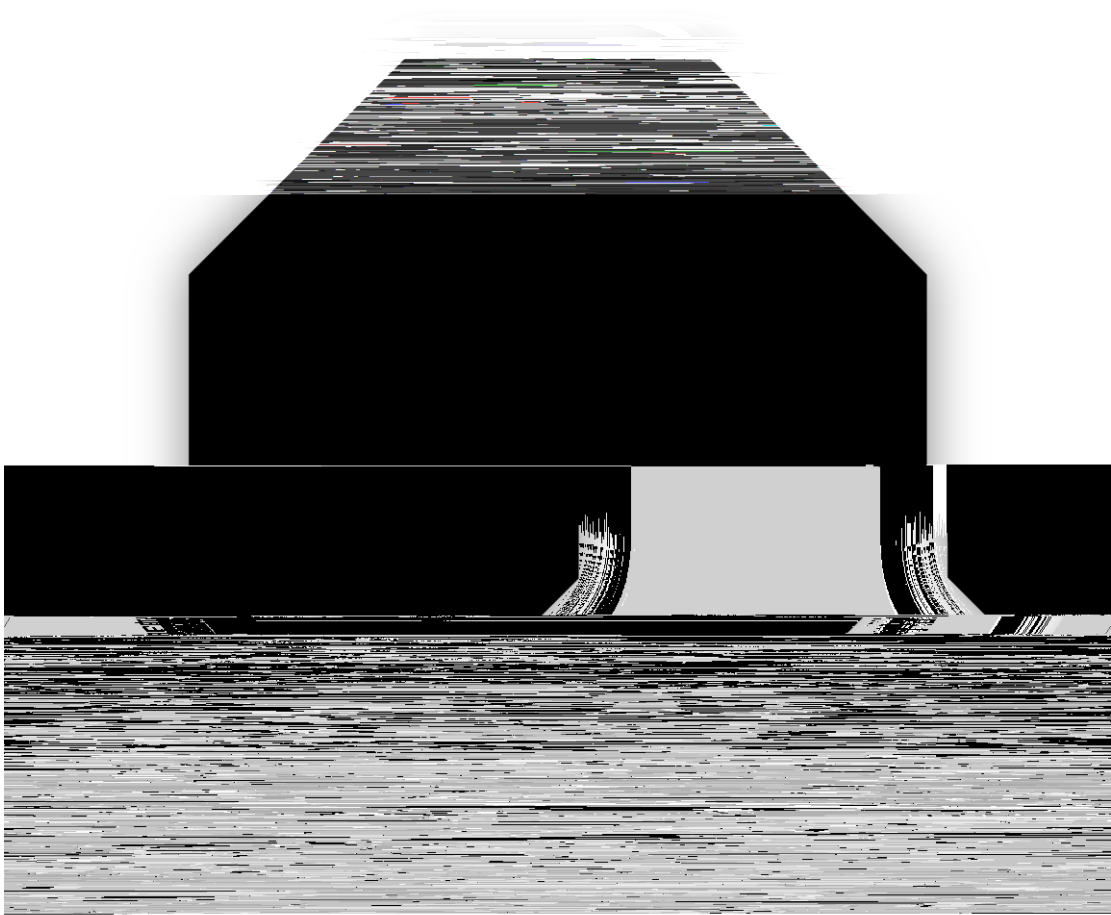


Emission categories	Emission source	Facilities or process	Accounting method	
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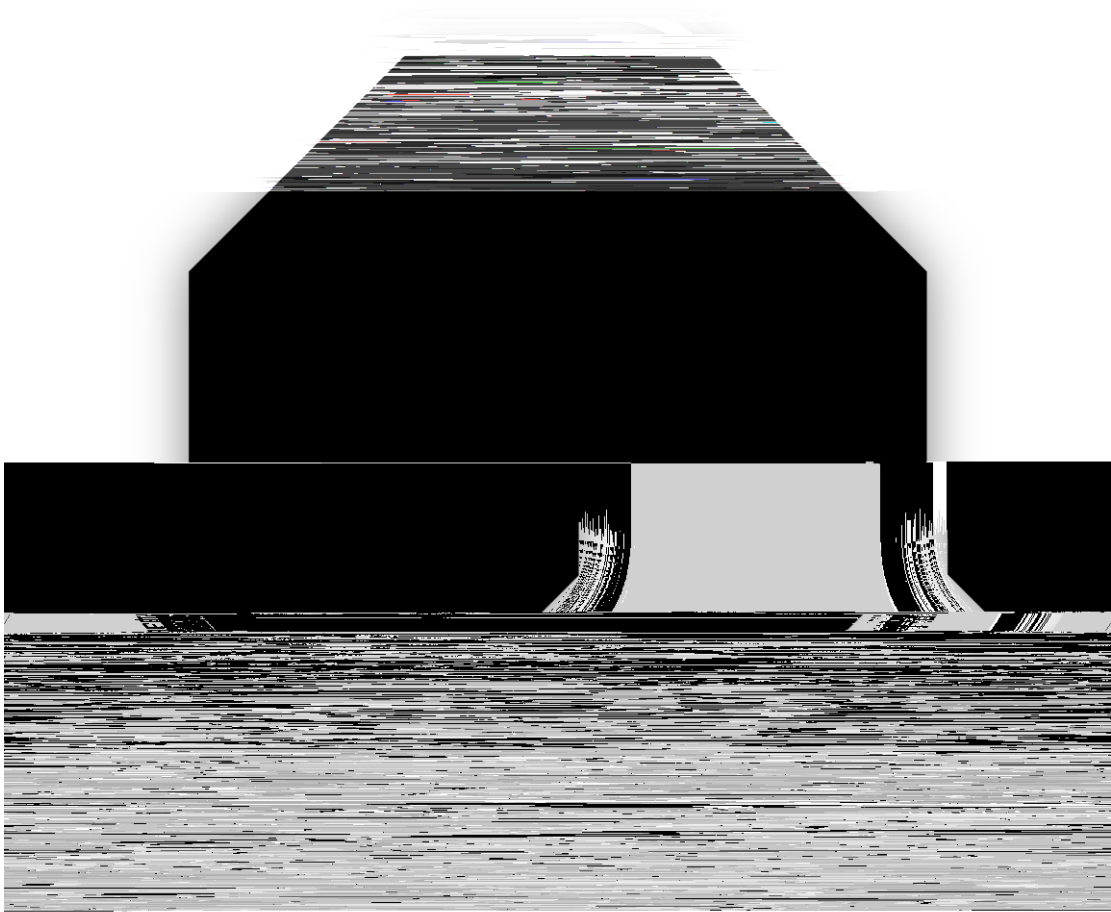


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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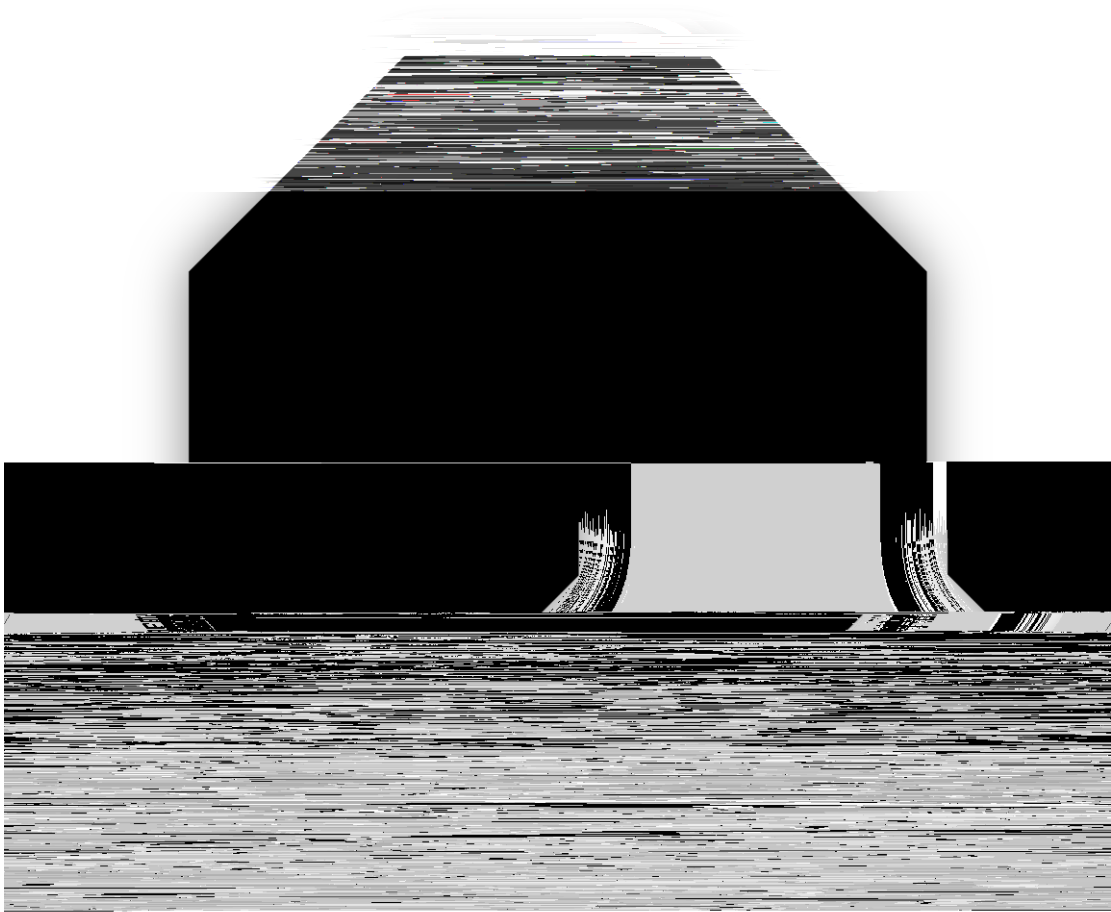


Emission
categories



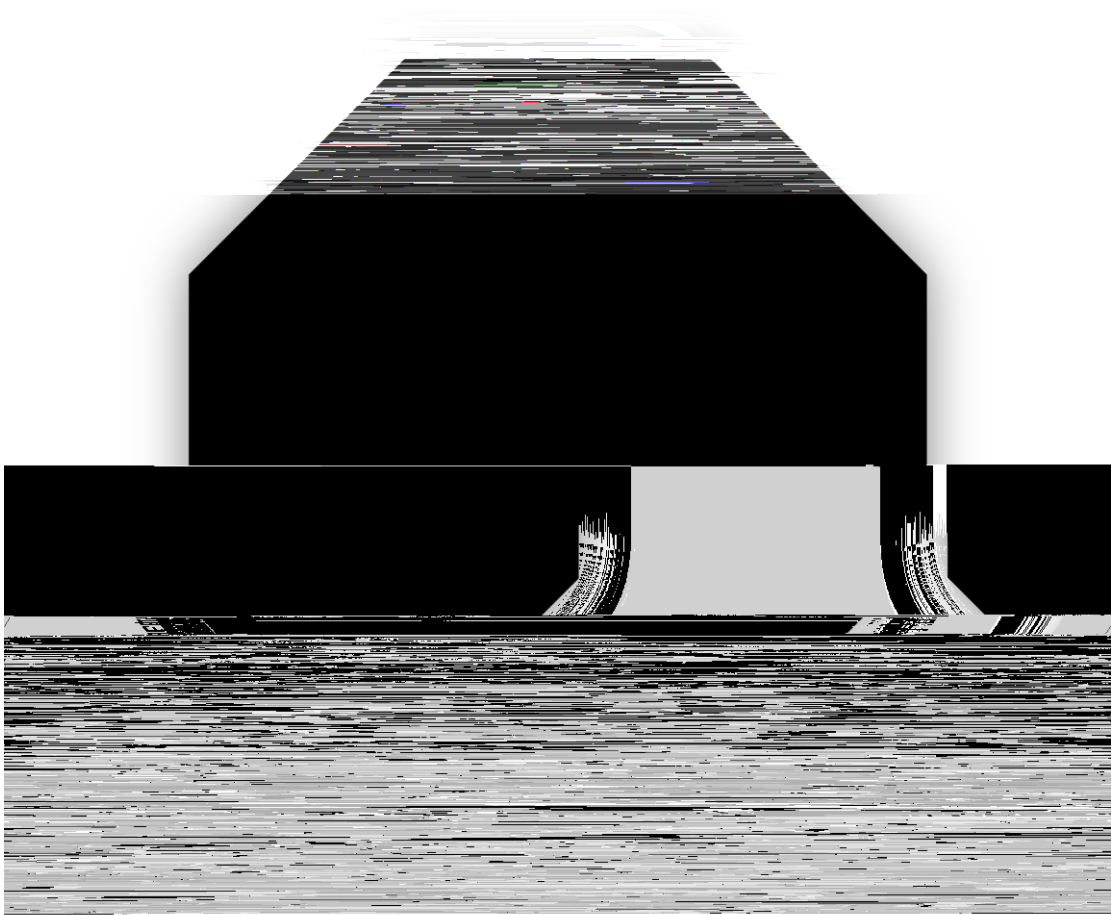


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	
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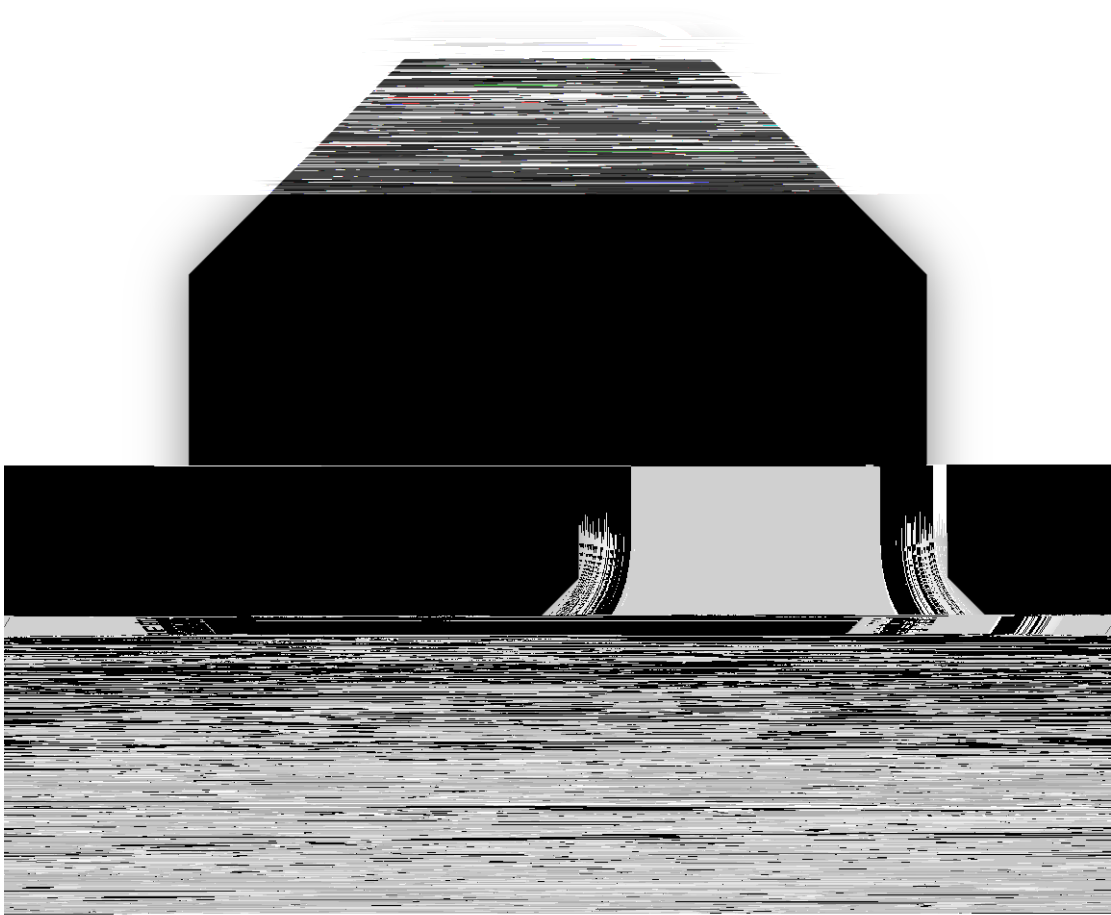
Emission categories	Emission source
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Rubber	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material acquisition record	4168 kgCO ₂ e/kg	Ecoinvent 3.10 database	0.2050
	Purchased raw material	Argon gas	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	61776.93	kg	Raw material acquisition record	2.5263 kgCO ₂ e/kg		



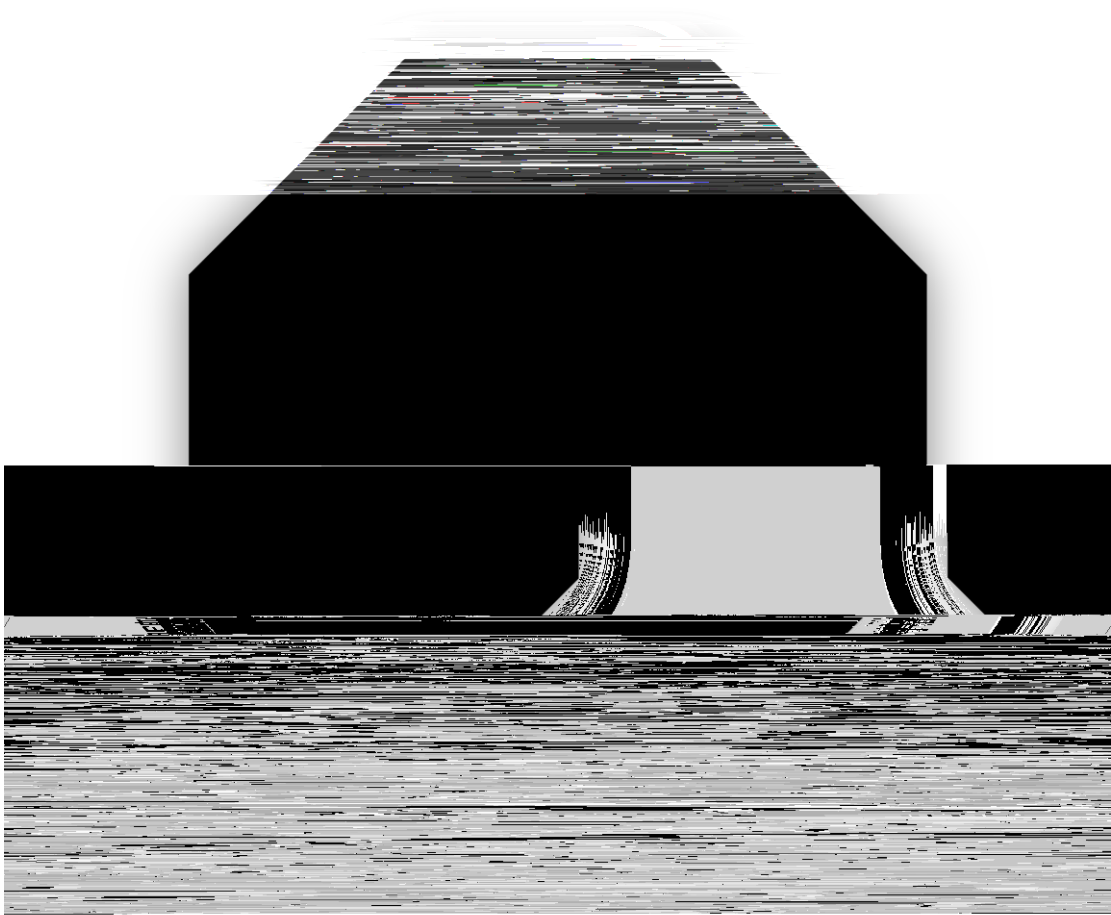
Emission categories	Emission source	Facilities or process	Accounting method	
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
			Goods, services and capital goods:						
			☐ Supplier-specific method						
			☐ Hybrid method						
	Purchased raw material	Ethanol	☒ Average method			Raw material	7000 kgCO ₂ e/kg	Ecoinvent 3.10 database	0.2310
			☐ Special method						
			☐ Not a method						

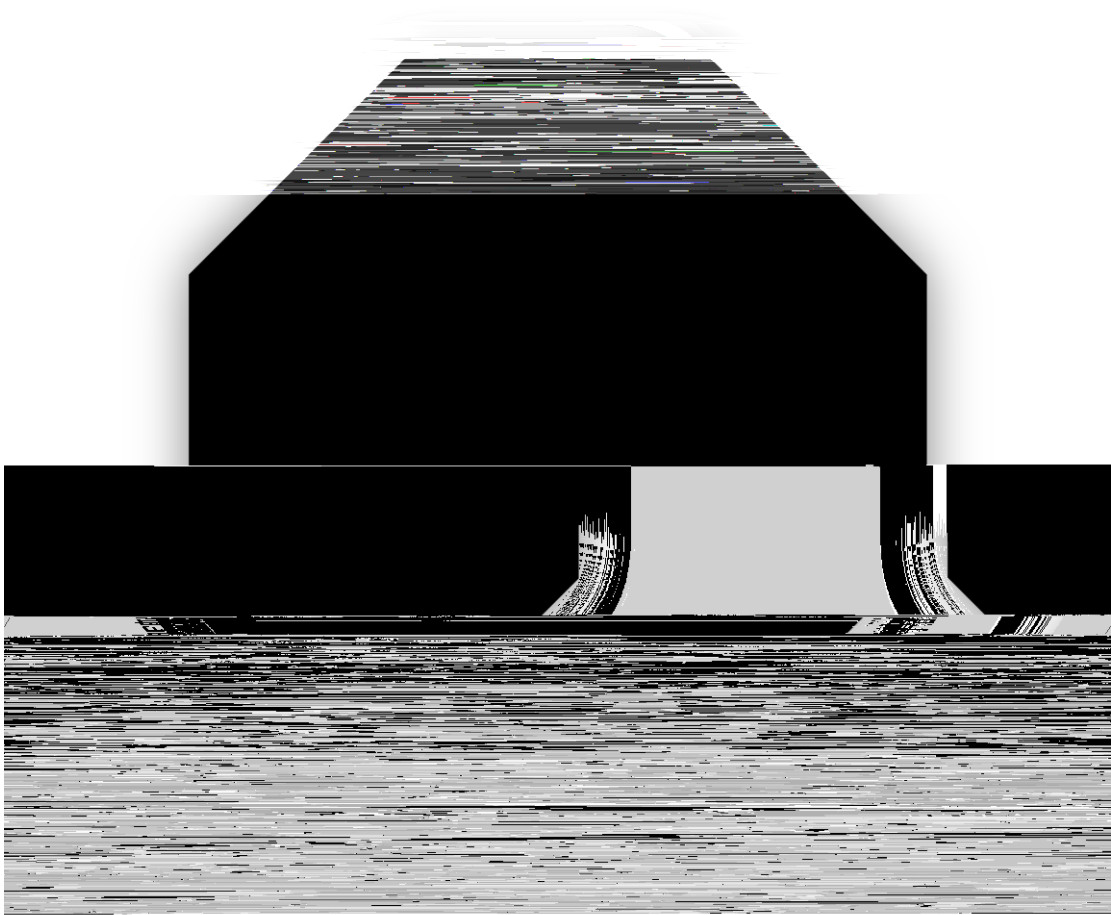
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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	Purchased raw material	Isopropanol	Goods, services and capital goods:						
			☐ Supplier-specific method ☐ Hybrid method						





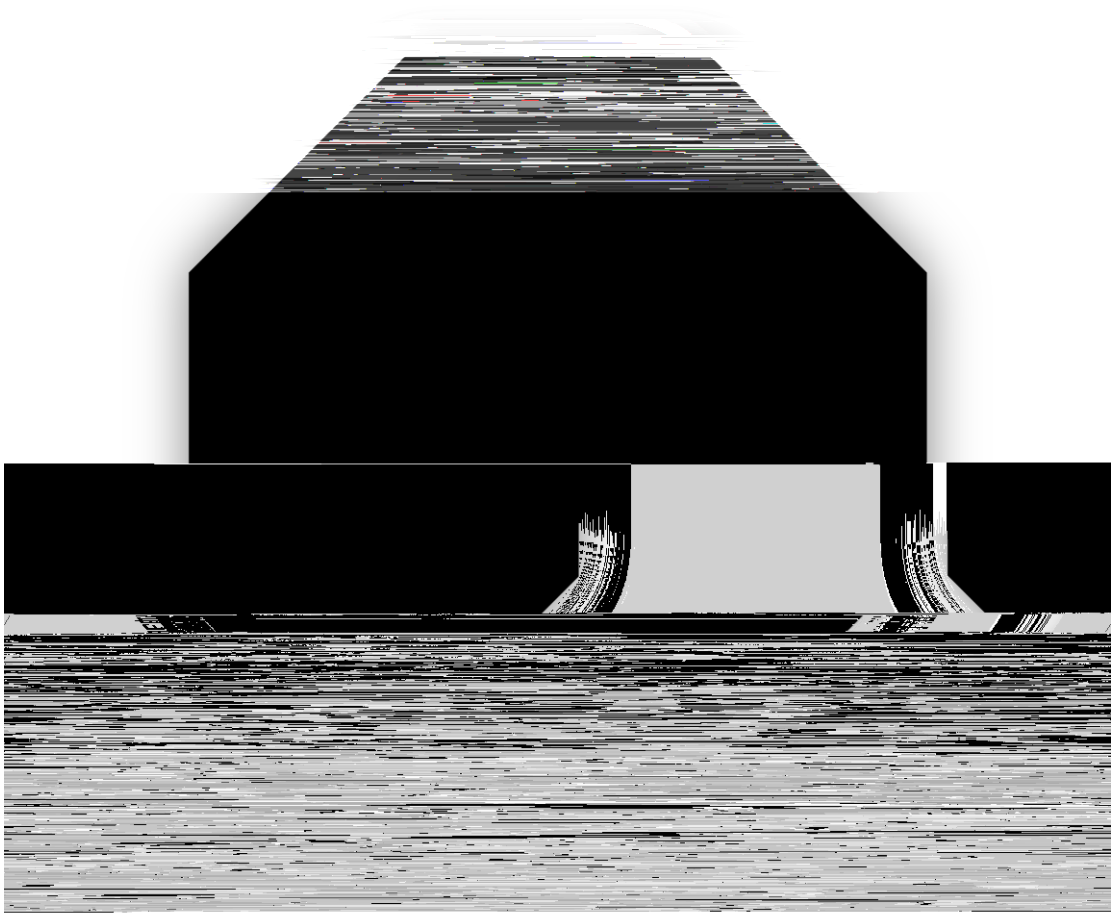
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data
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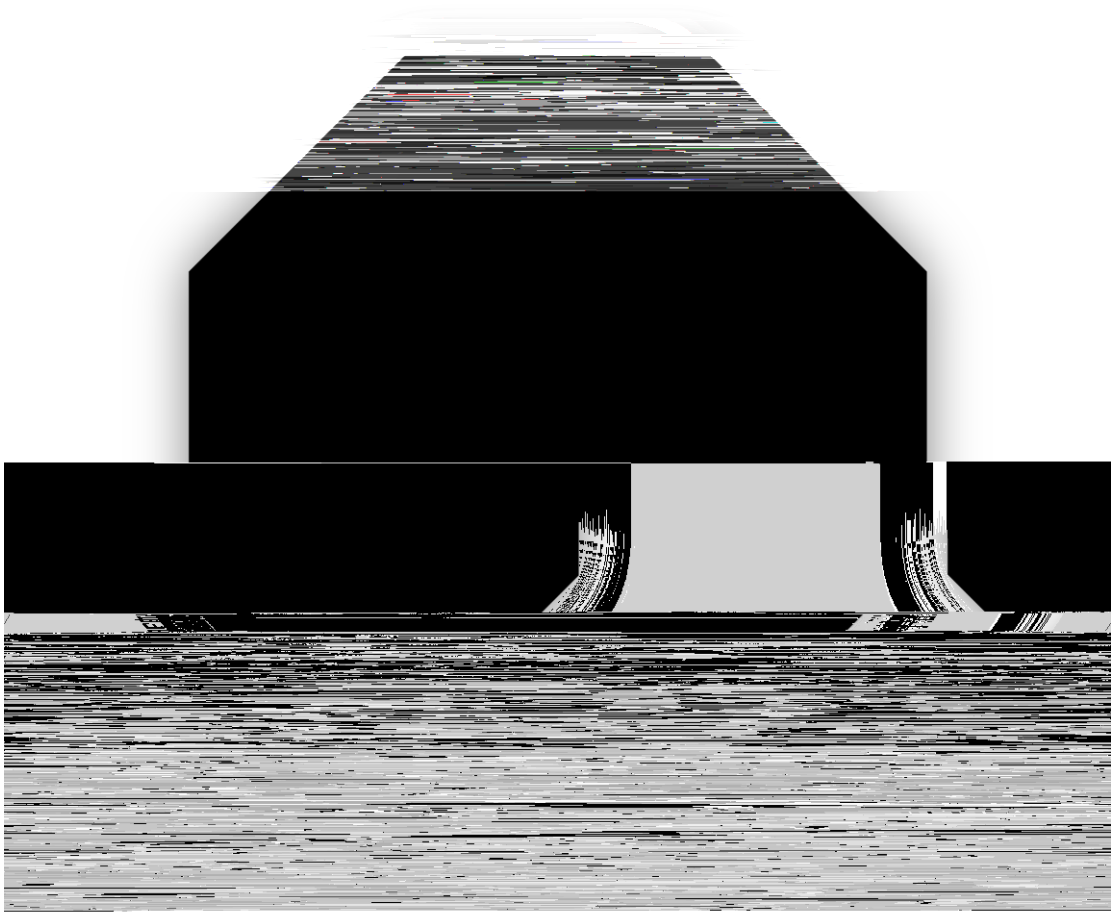


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Purchased raw material	Anode copper product	Goods, services and capital goods: ☐ Supplier-specific method ☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable			Raw material	8994 kgCO ₂ e/kg	Ecoinvent 3.10 database	18031.7812
	Purchased raw material	Anode copper strip	☐ Hybrid method ☒ Average-data method ☐ Spend-based method ☐ Not applicable	7103956.21	kg	Raw material acquisition record	9.1586 kgCO ₂ e/kg	Ecoinvent 3.10 database	65677.7334



Emission categories	Emission source	Facilities or process	Accounting method	
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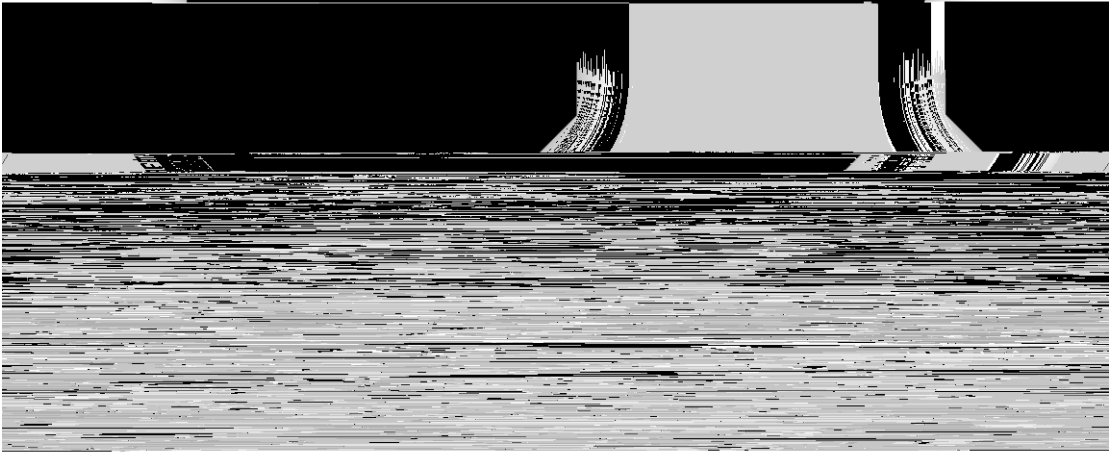


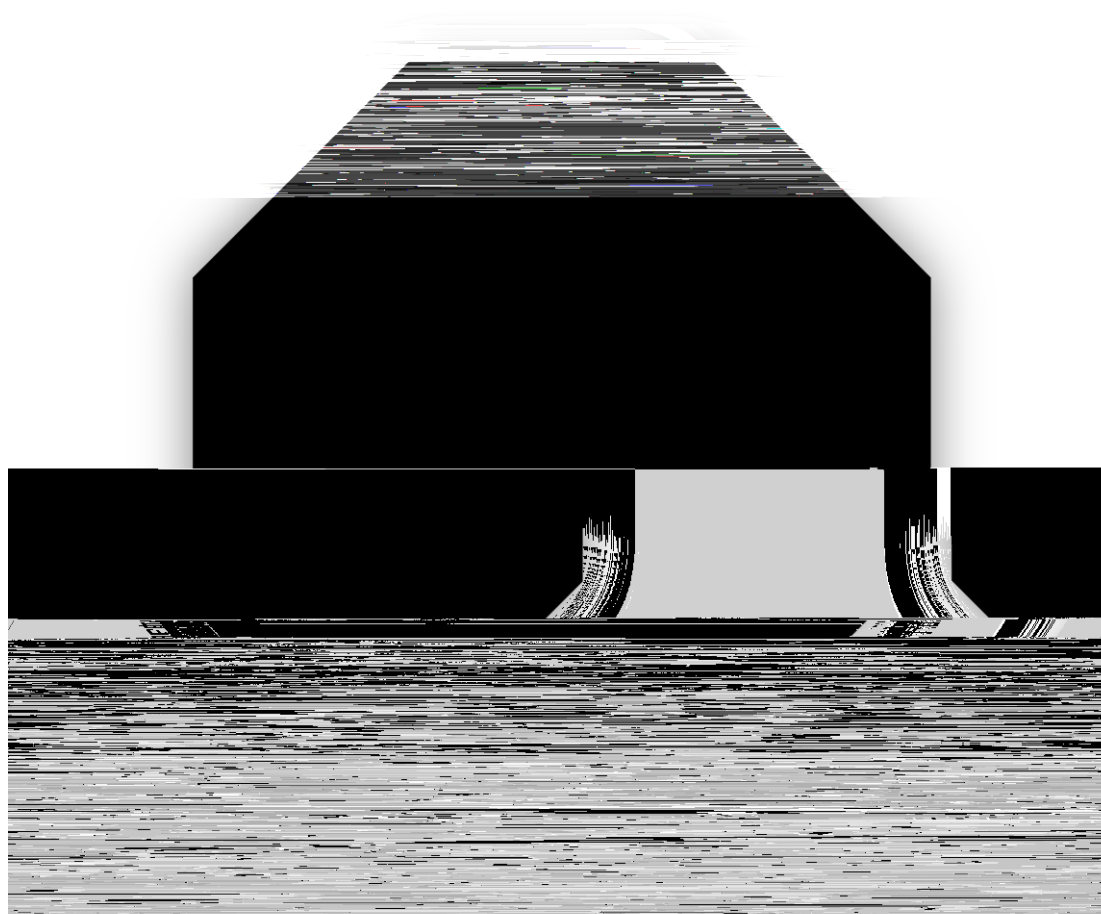
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Solid waste treatment	Cable treatment	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average method ☐ Not applicable	305569.77	kg	2024 solid waste inventory record	0.9103 kgCO ₂ e/kg	Ecoinvent 3.10 database	278.1685
	Solid waste treatment	Steel treatment	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average method ☐ Not applicable			2024 solid waste inventory record	0.0000 kgCO ₂ e/kg	Ecoinvent 3.10 database	0.0000



Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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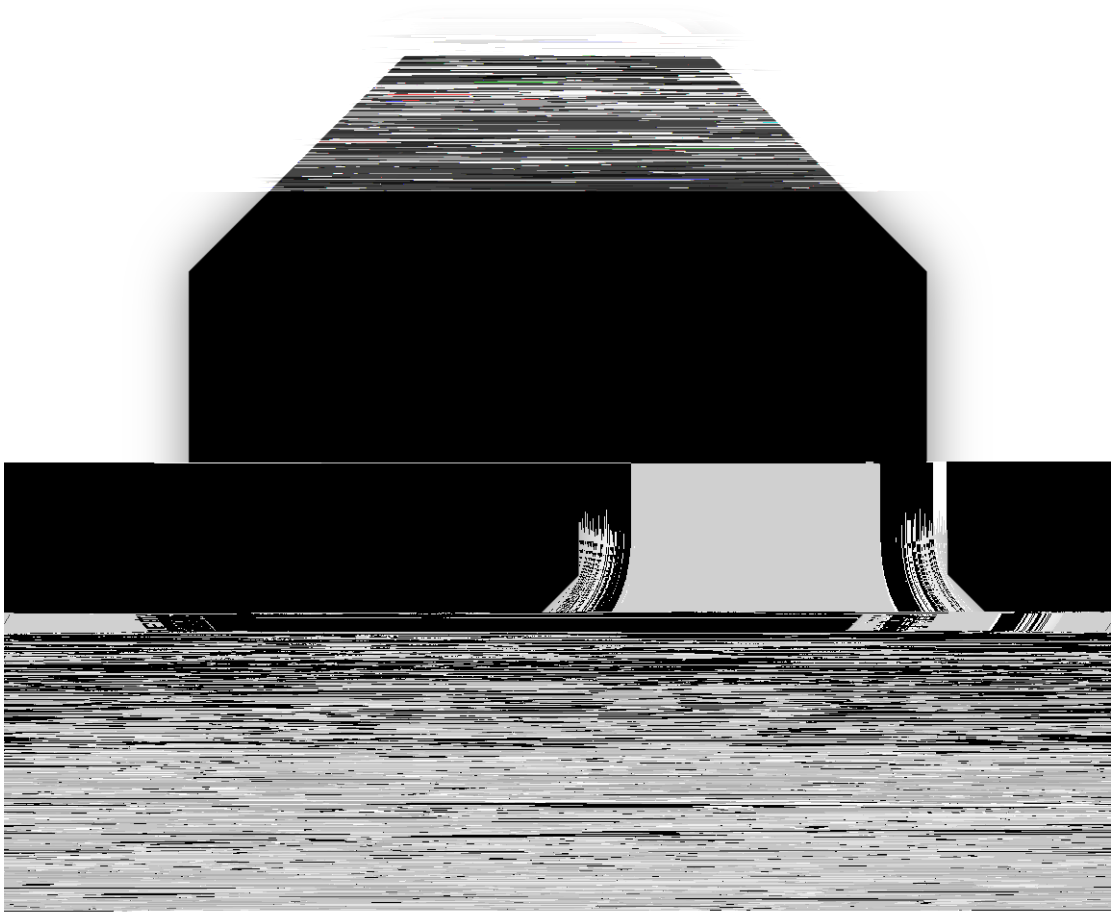
	Solid waste treatment	Copper recycle	Waste:						
			☐ Supplier-specific method						
			☐ Waste-type-specific method	460043.01	kg	2024 solid waste inventory re			
			☒ Average method						
			☐ Not						







Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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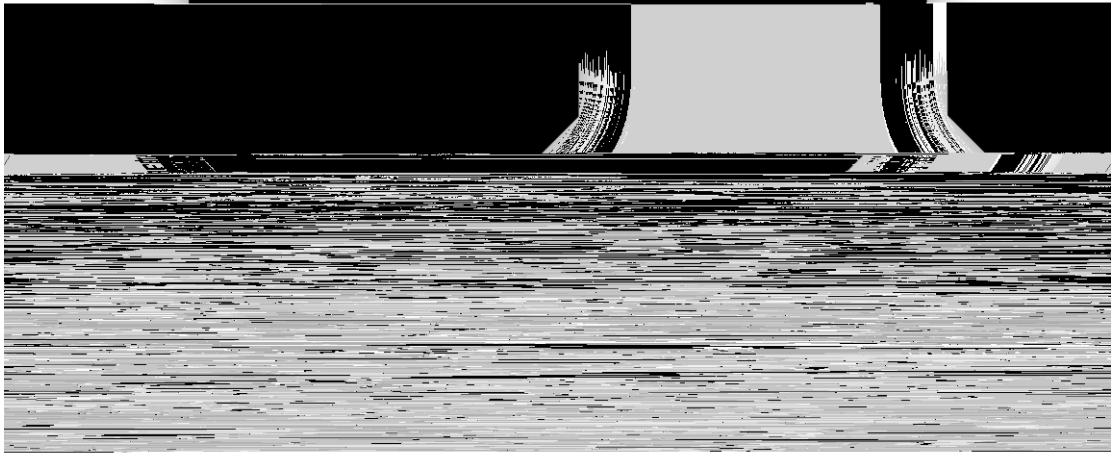


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Hazardous waste treatment	Waste bucket treatment	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average-method ☐ Not applicable	3.95	t	2024 hazardous waste transfer joint	2.5237 kgCO ₂ e/kg	Ecoinvent 3.10 database	9.9659
	Hazardous waste treatment	Safety waste treatment	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average-method ☐ Not applicable			2024 hazardous waste transfer joint order	2.5237 kgCO ₂ e/kg	Ecoinvent 3.10 database	5.7539



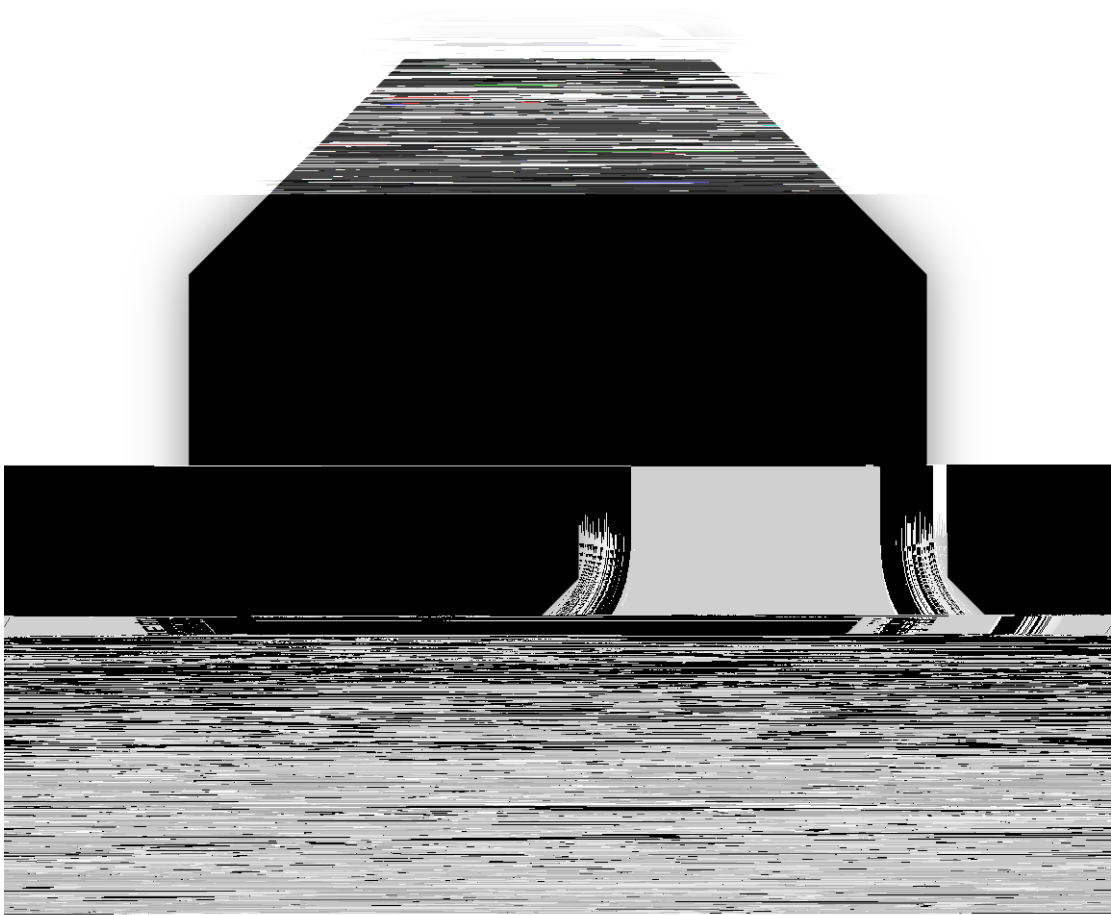
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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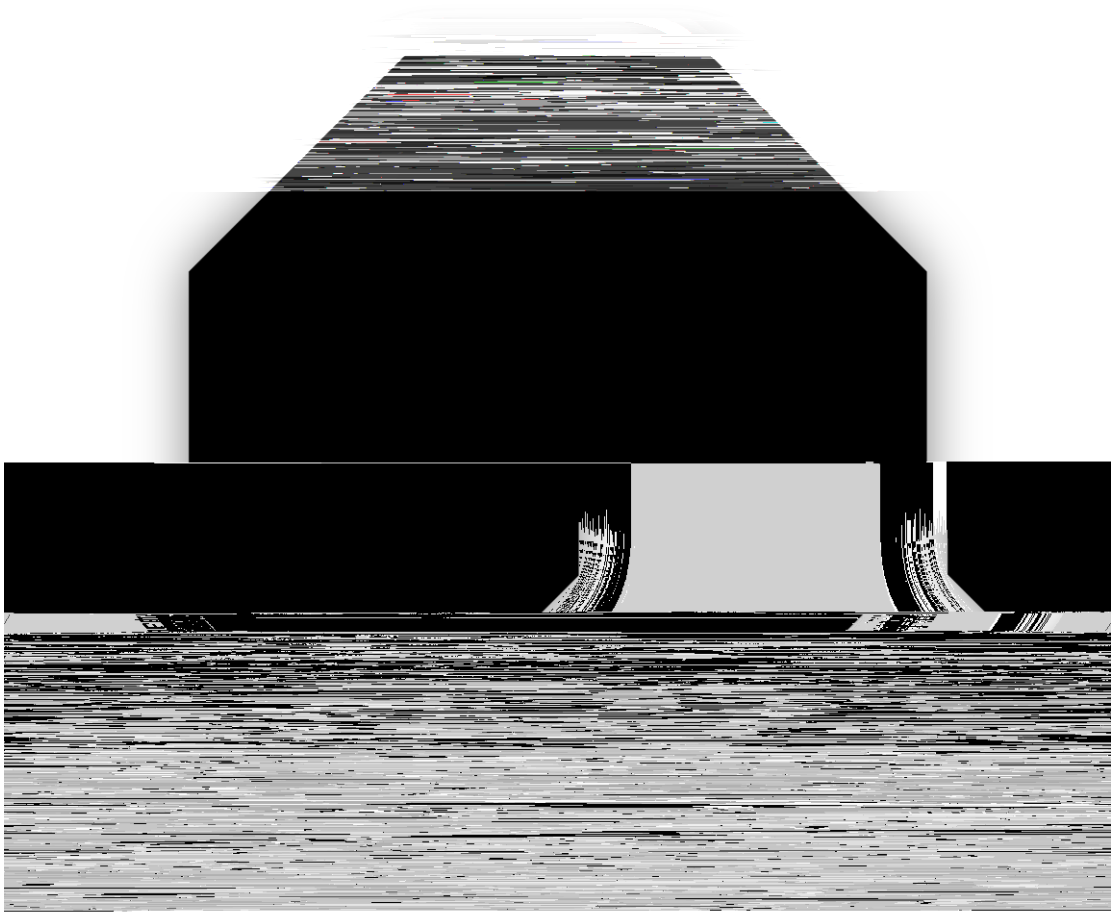
	Hazardous waste treatment	Waste grease treatment	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average-method ☐ Not a	2.14	t	2024 hazardous waste transfer joint			
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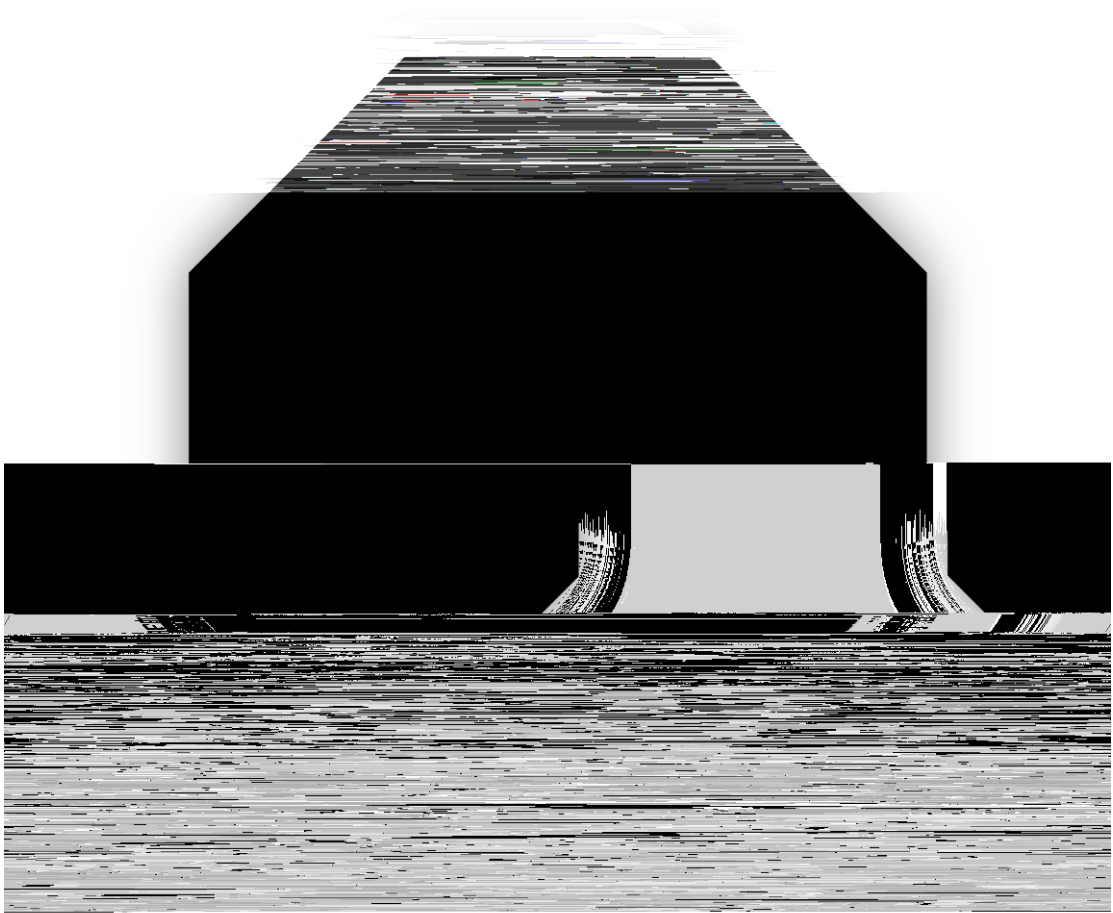




Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor
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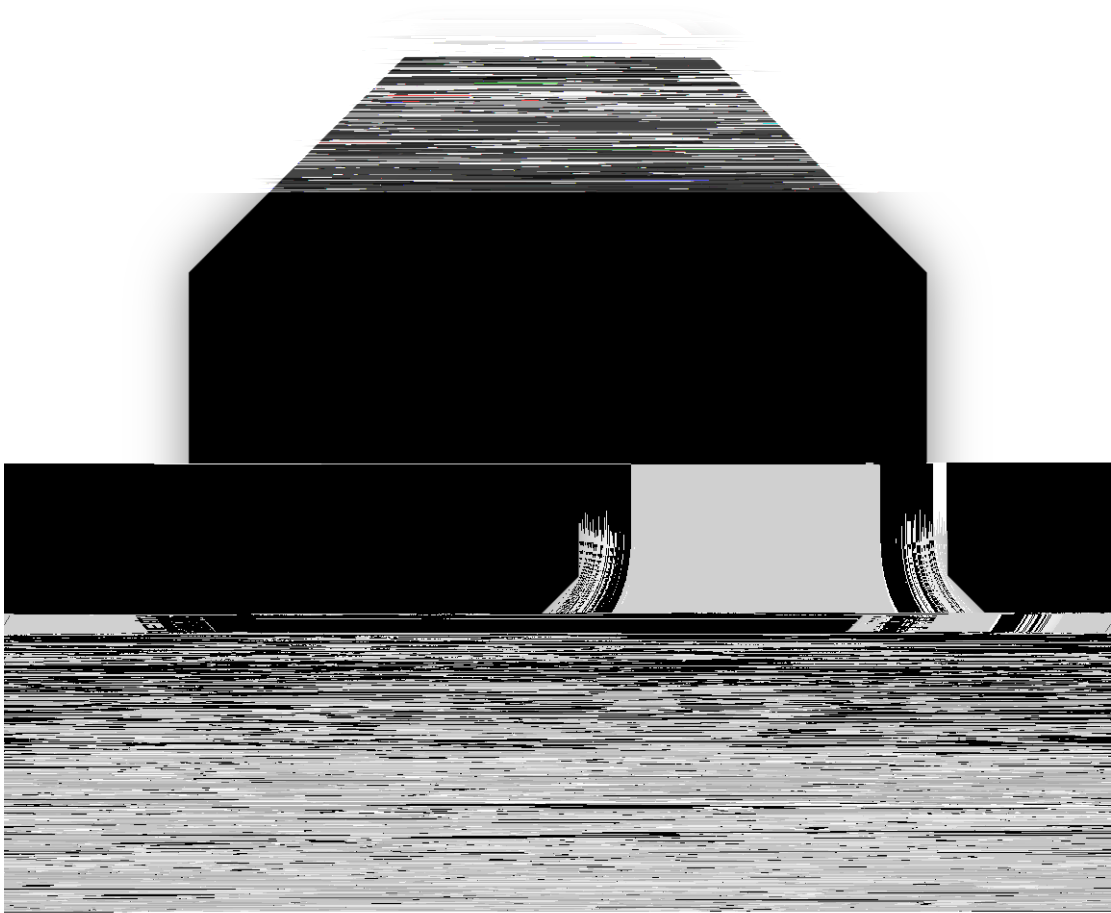




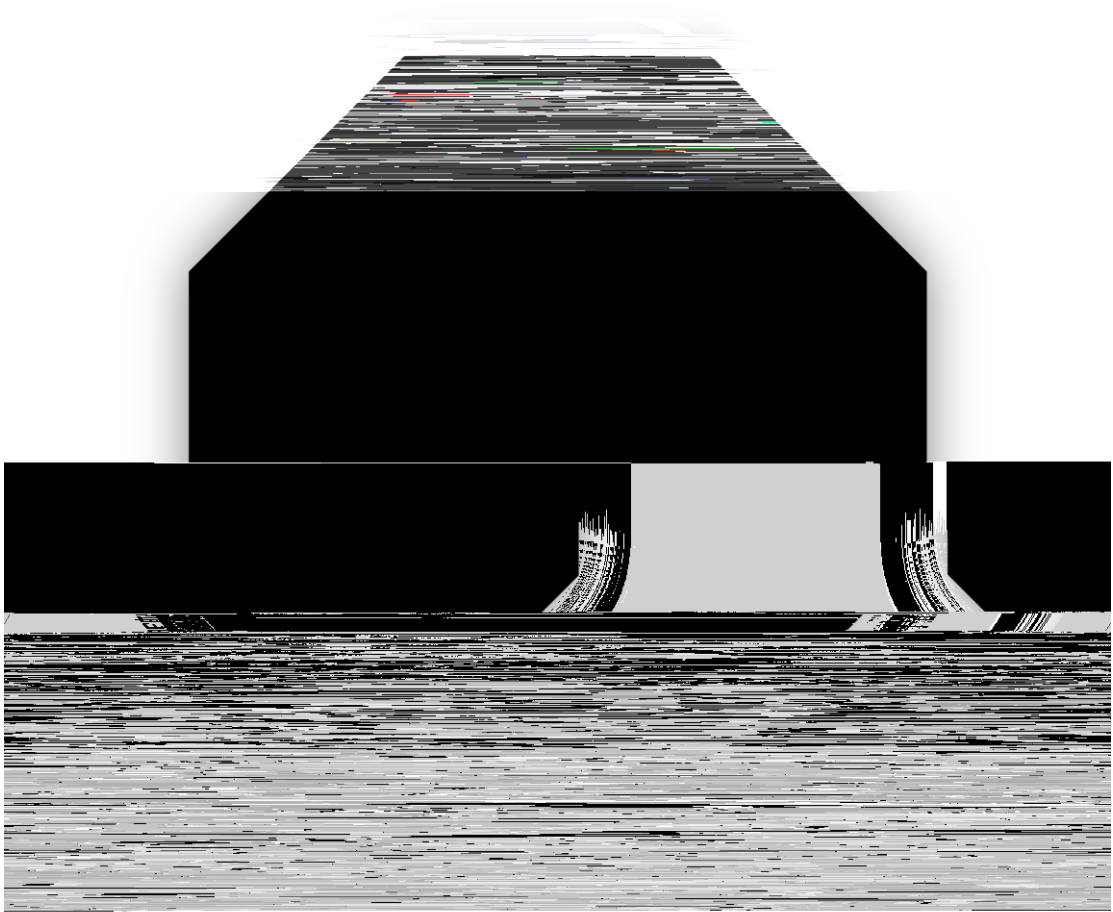




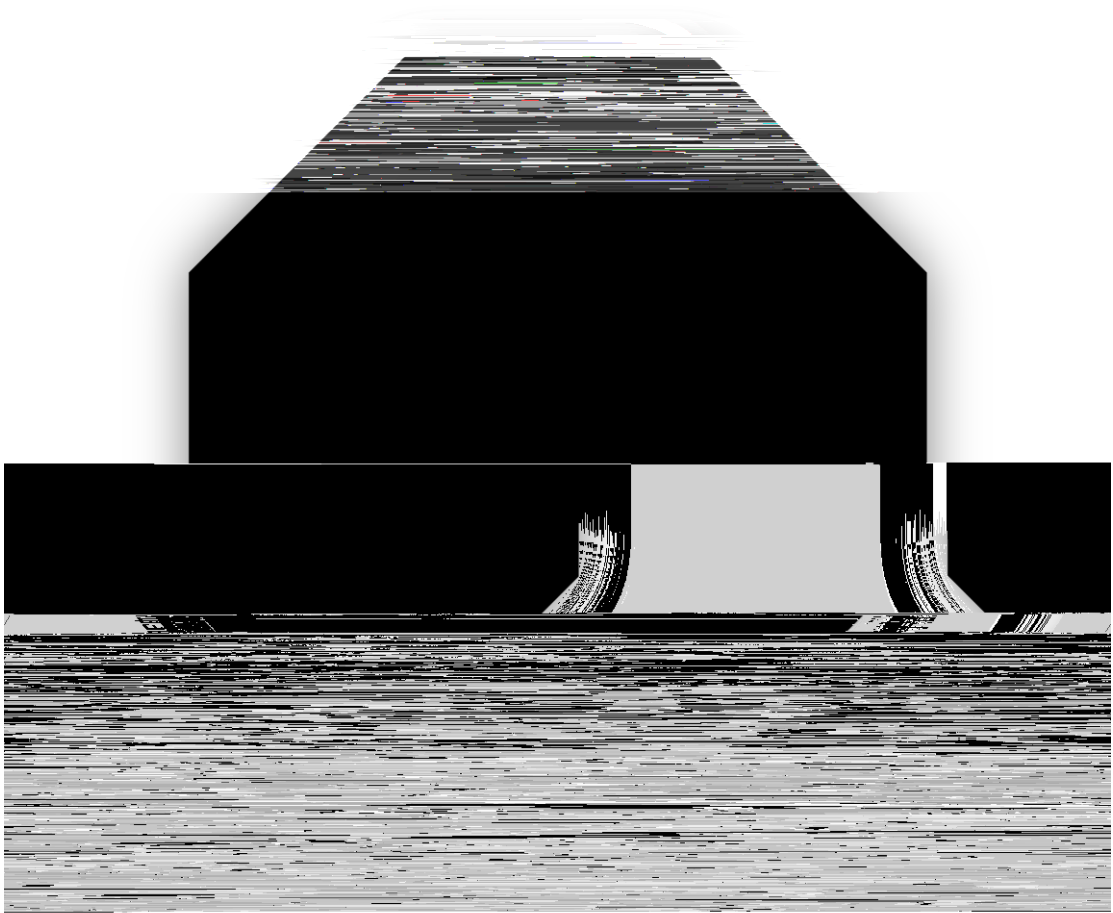
Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	
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Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Product disposal	Waste electronic component	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average-method ☐ Not applicable	743444.20	kg	Raw material acquisition record	1.0655 kgCO ₂ e/kg	Ecoinvent 3.10 database	792.1635
	Product disposal	Waste	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average-method ☐ Not applicable			Raw material acquisition record	0.01 tCO ₂ e/kg	Ecoinvent 3.10 database	34.6067



Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
	Product disposal	Waste steel	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average method ☐ Not applicable	1802998.94	kg	Raw material acquisition record	0.0186 kgCO ₂ e/kg	Ecoinvent 3.10 database	33.5421
	Product disposal	Waste steel	Waste: ☐ Supplier-specific method ☐ Waste-type-specific method ☒ Average method ☐ Not applicable			Raw material acquisition record	0.02 kgCO ₂ e/kg	Ecoinvent 3.10 database	13.4936



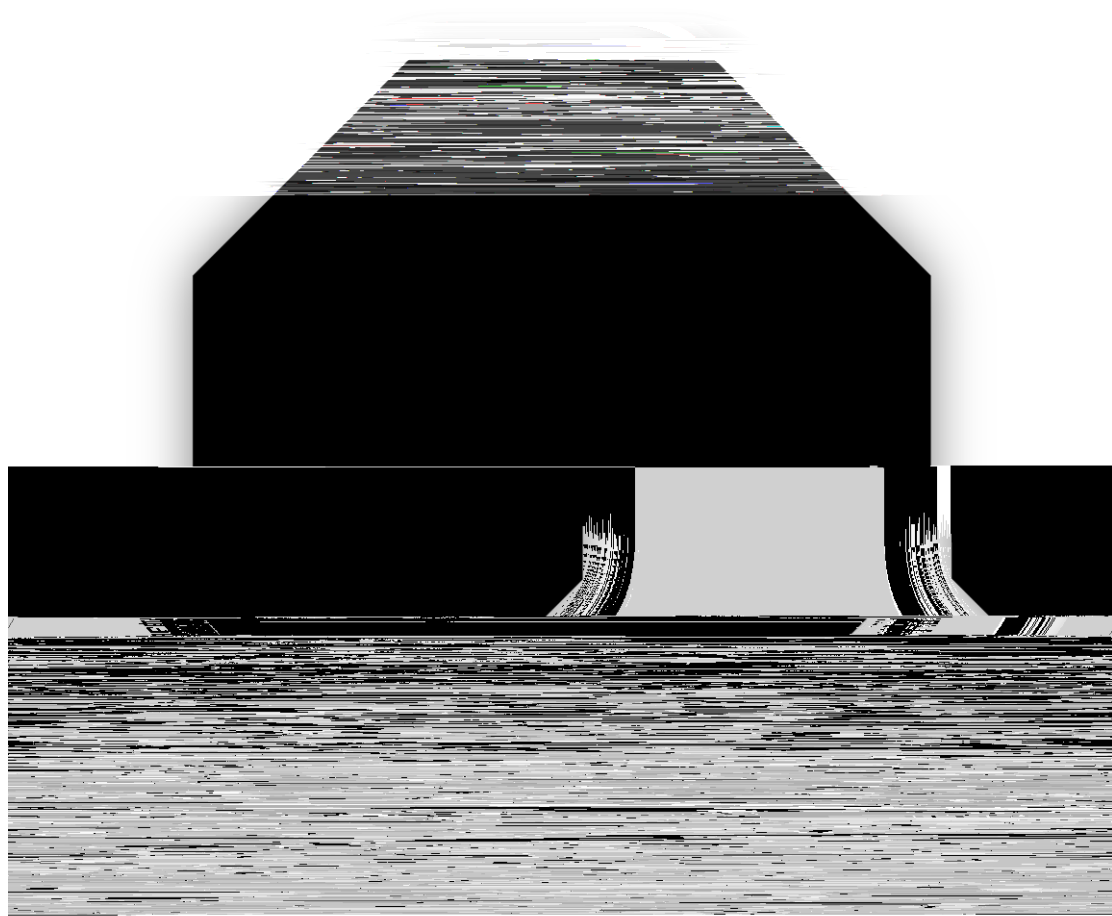


Emission categories	Emission source	Facilities or process	Accounting method	Activity data	Unit	Source of activity data	Emission factor/Mass balance coefficient	Source of activity data	GHG emission (tCO ₂ e)
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Version 00

Effective Date 2025-02-06

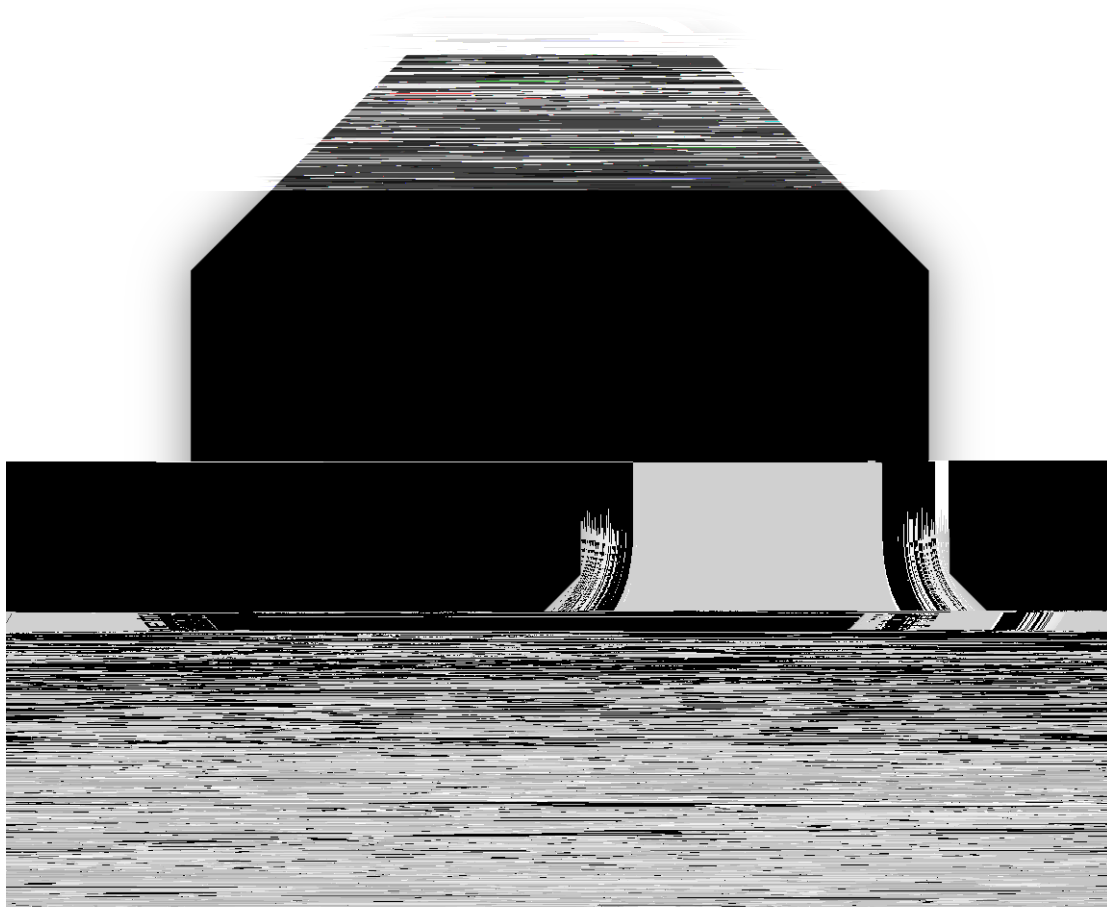
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Global warming potential

The global warming potentials of direct and indirect greenhouse gases emitted by the enterprise were taken from the IPCC sixth assessment report, which meet the requirements of the guidelines. The specific values are as follows:

Gas name	Types of greenhouse gases involved in the verification process	Global warming potential
Carbon dioxide	CO ₂	1
Methane	CH ₄	27.9
Nitrous oxide	N ₂ O	273



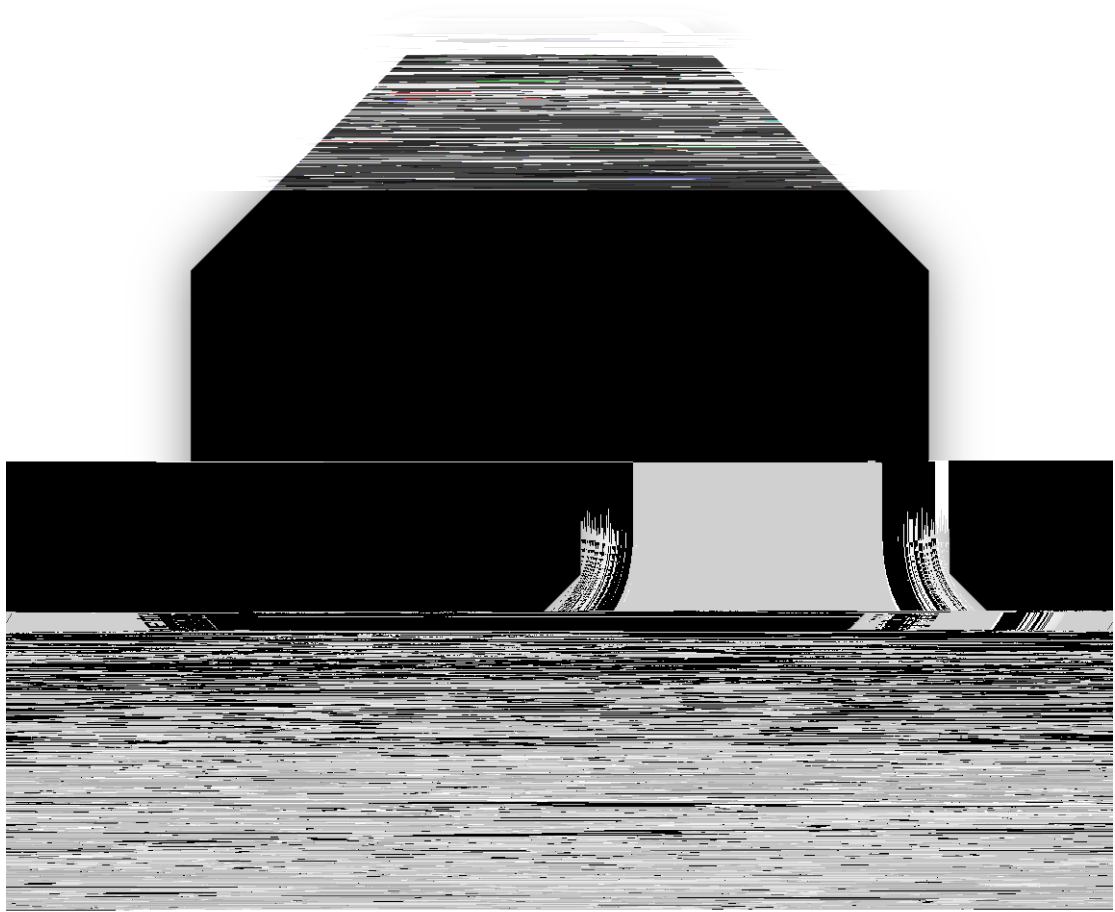
Anthropogenic biogenic CO₂ emissions	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Anthropogenic biogenic other GHG emissions	64.8893	0.0000	0.0000	0.0000	0.0000	0.0000	64.8893
Total	195.3576	7483.0827	23451.2019	432536.2641	35545.1321	0.0000	499211.0385

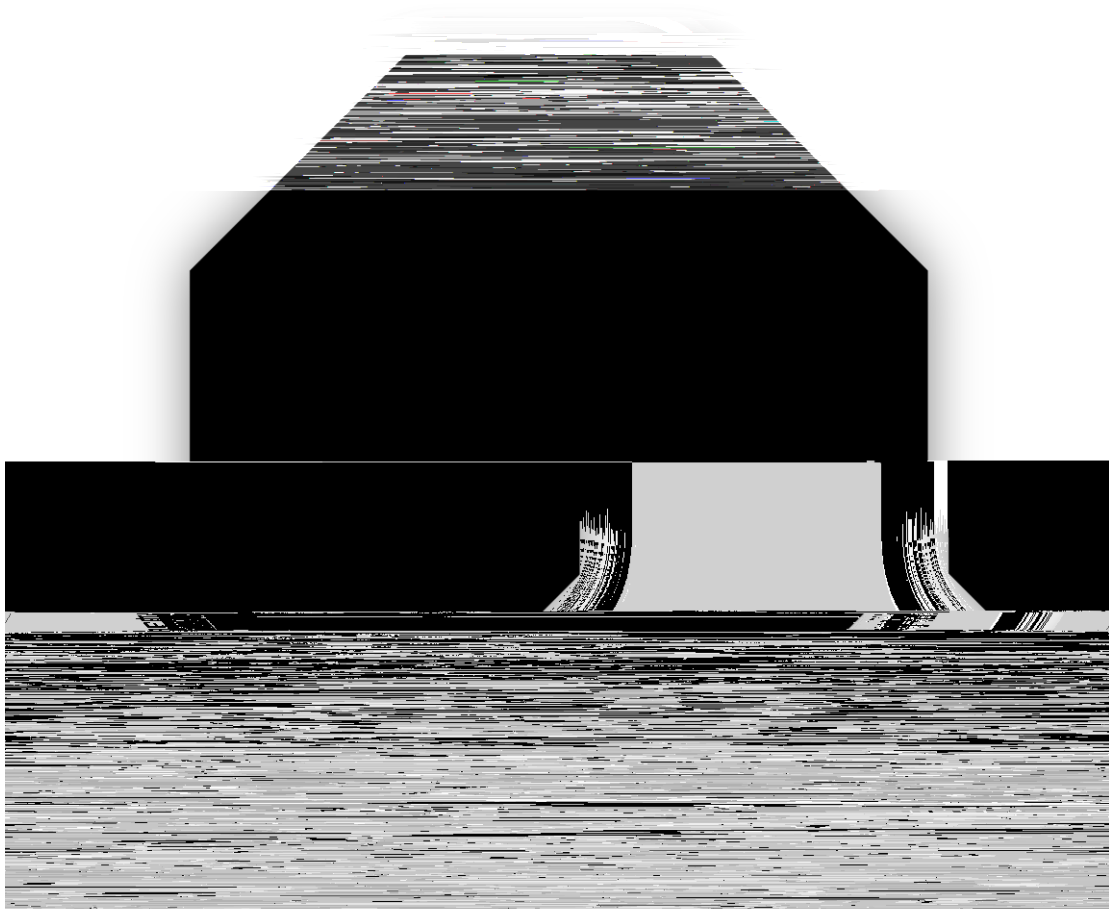
GHG emission analysis

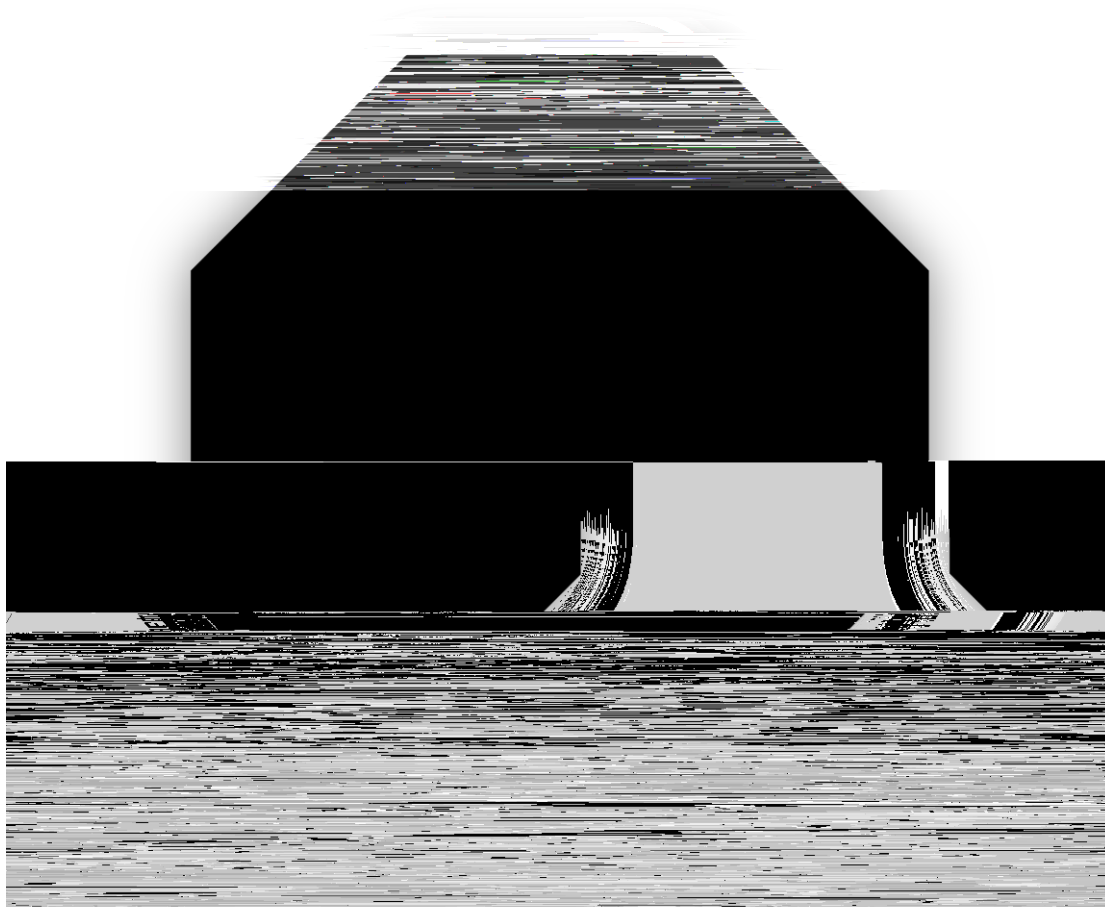
Analysis of emissions of different categories of emission sources

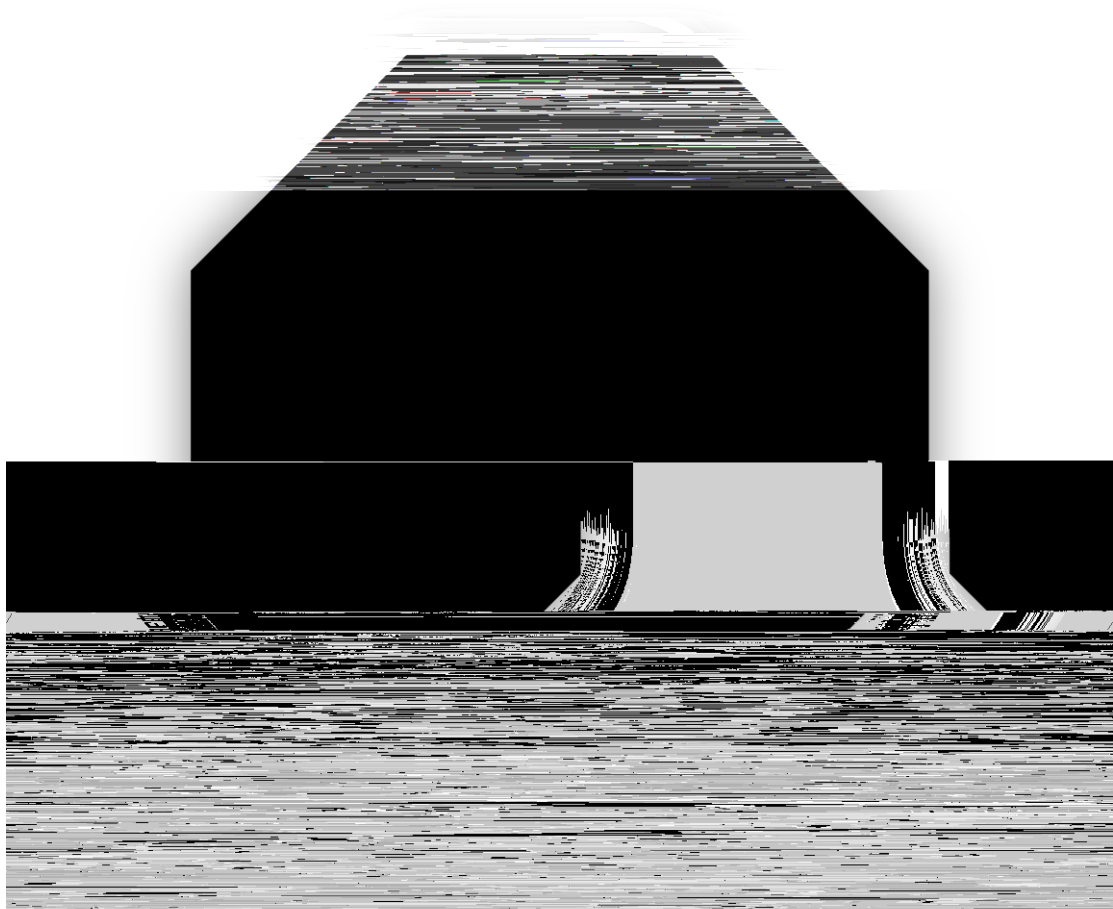
- Among the emission categories, anode copper strip is the largest emission category, accounting for about 13.16%.
- To fulfil corporate social responsibility and reduce the organization's supplier and design.

Analysis on emissions of different greenhouse gases



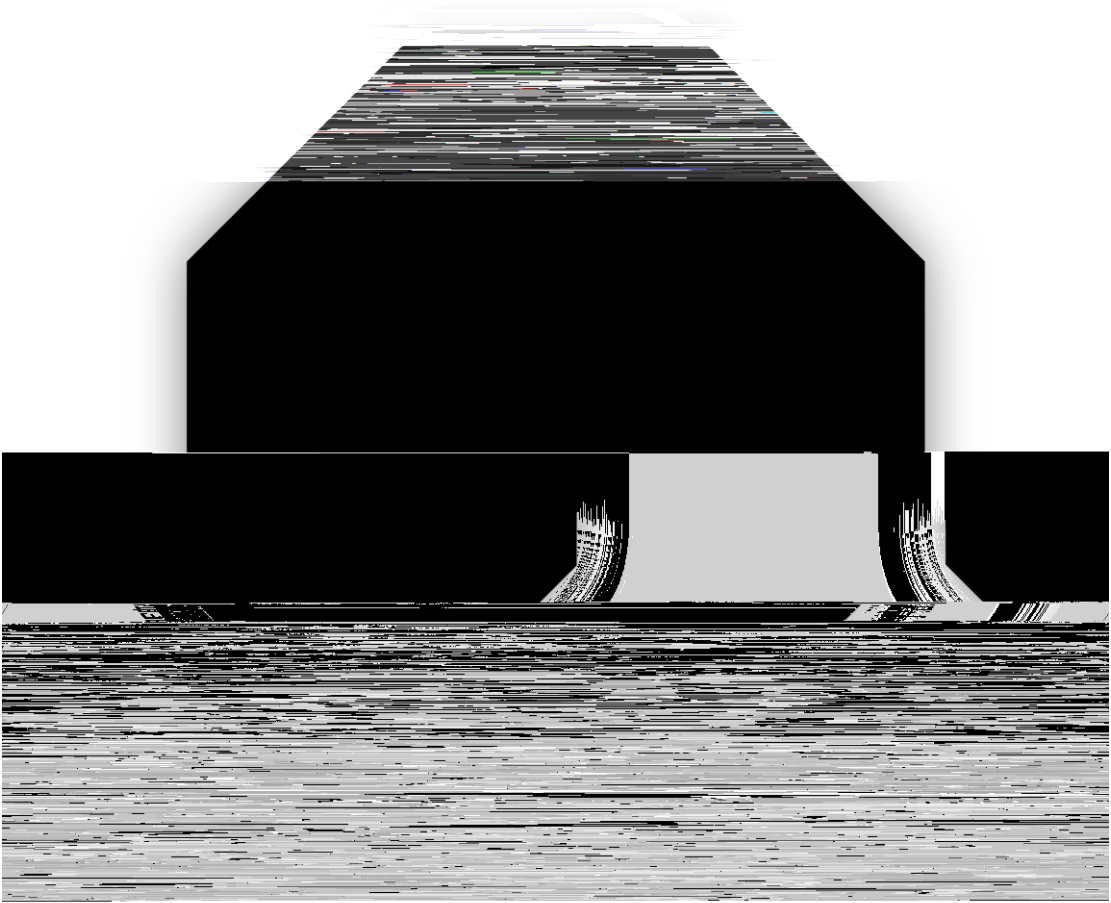


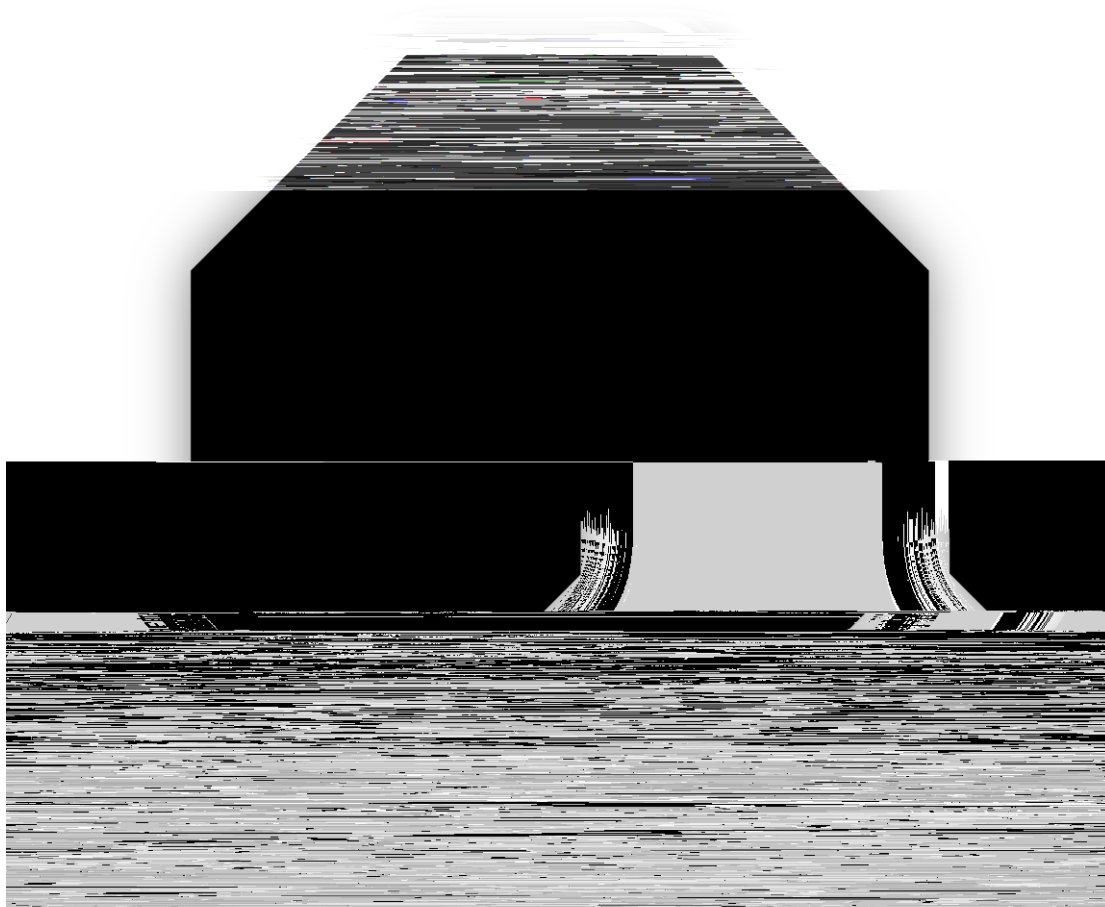






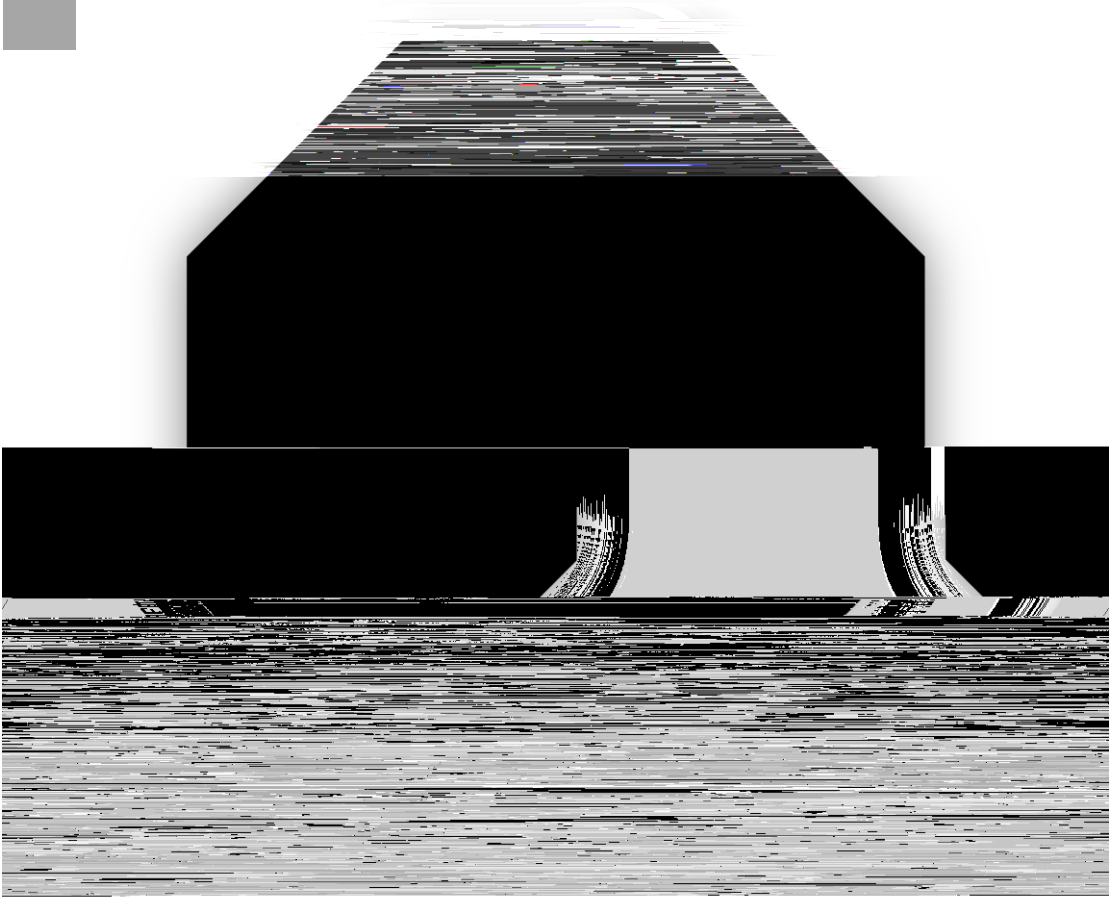
No.	Emission		Activity
	Facilities	Categories	

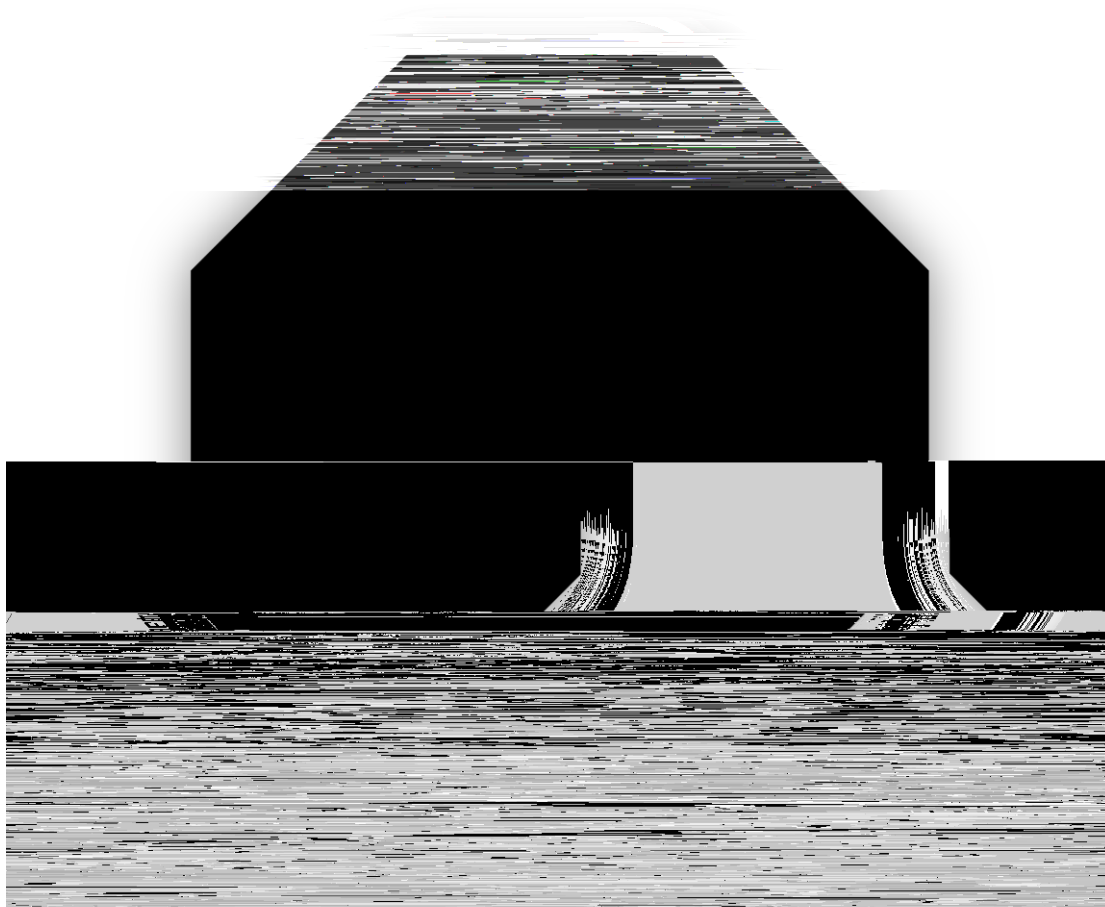






No.	Emission categories	Facilities	Activity data categories	Emission factor categories	Instrument calibration categories	Average score	Total emission (tCO ₂ e)	Emission proportion	Weighted average score
53	Purchased raw material	PET product	3	1	3	2.33	364.9446	0.07%	0.0017
54	û m								

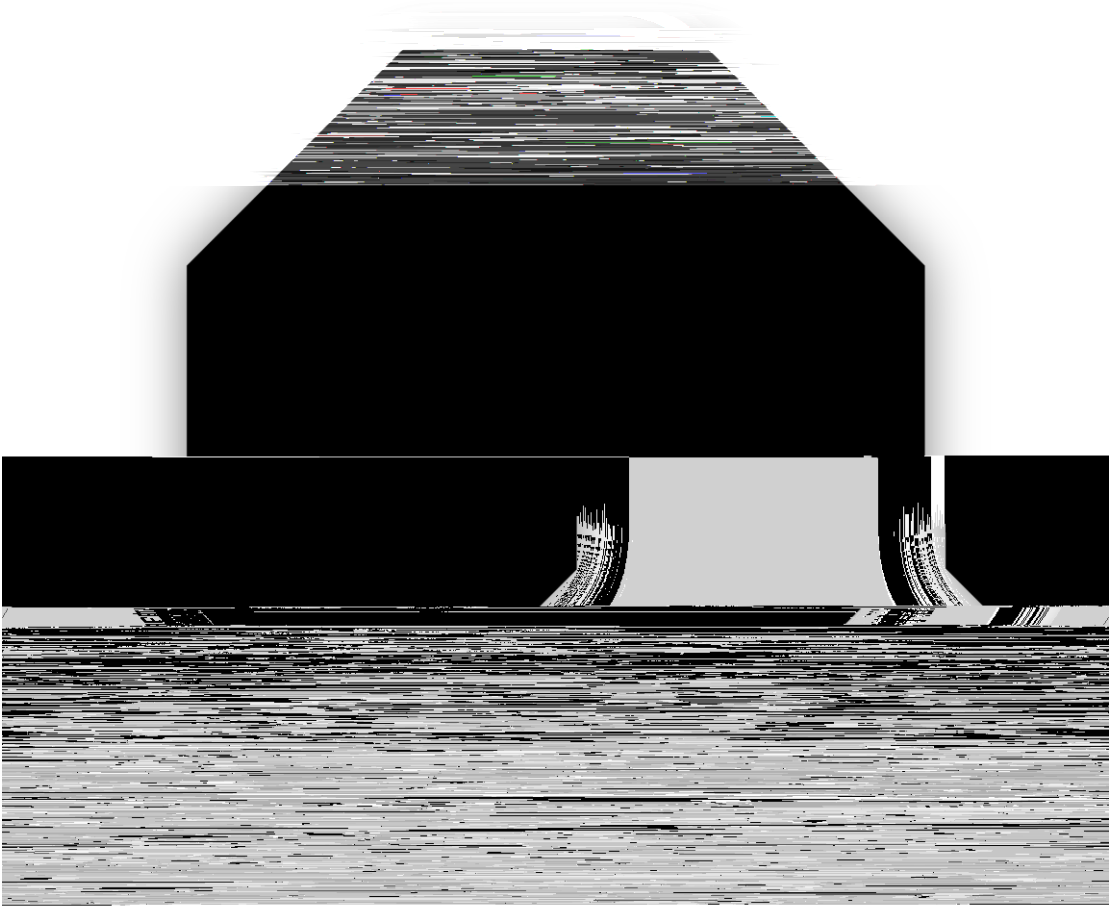


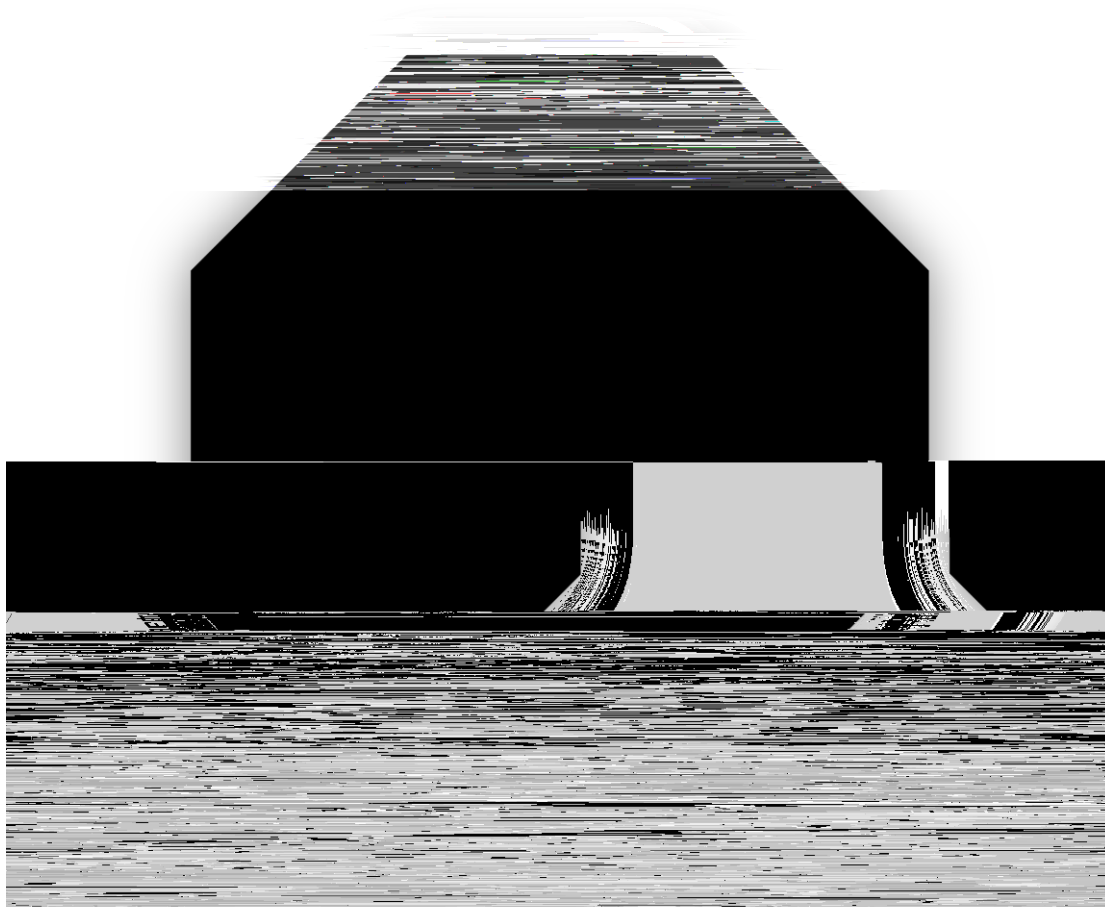


No.	Emission categories	Facilities	Activity data categories	Emission factor categories	Instrument calibration categories	Average score	Total emission (tCO ₂ e)	Emission proportion	Weighted average score
75	Purchased raw material	Optical fiber	3	1	3	2.33	39.6629	0.01%	0.0002
76	Purchased raw material	Carbon dioxide	3	1	3	2.33	40.0224	0.01%	0.0002
77	Purchased raw material	Silicone product	3	1	3	2.33	0.7106	0.00%	0.0000
78	Purchased raw material							0.00%	0.0000
79	Purchased raw material							0.01%	0.0002
80						2.33	1019.5072		
81	Purchased raw material	Chemicals	3	1	3	2.33	7.7005	0.00%	0.0000
82	Purchased raw material	Brass material	3	1	3	2.33	0.0163	0.00%	0.0000
83	Purchased raw material	Brass product	3	1	3	2.33	6855.4566	1.37%	0.0320
84									



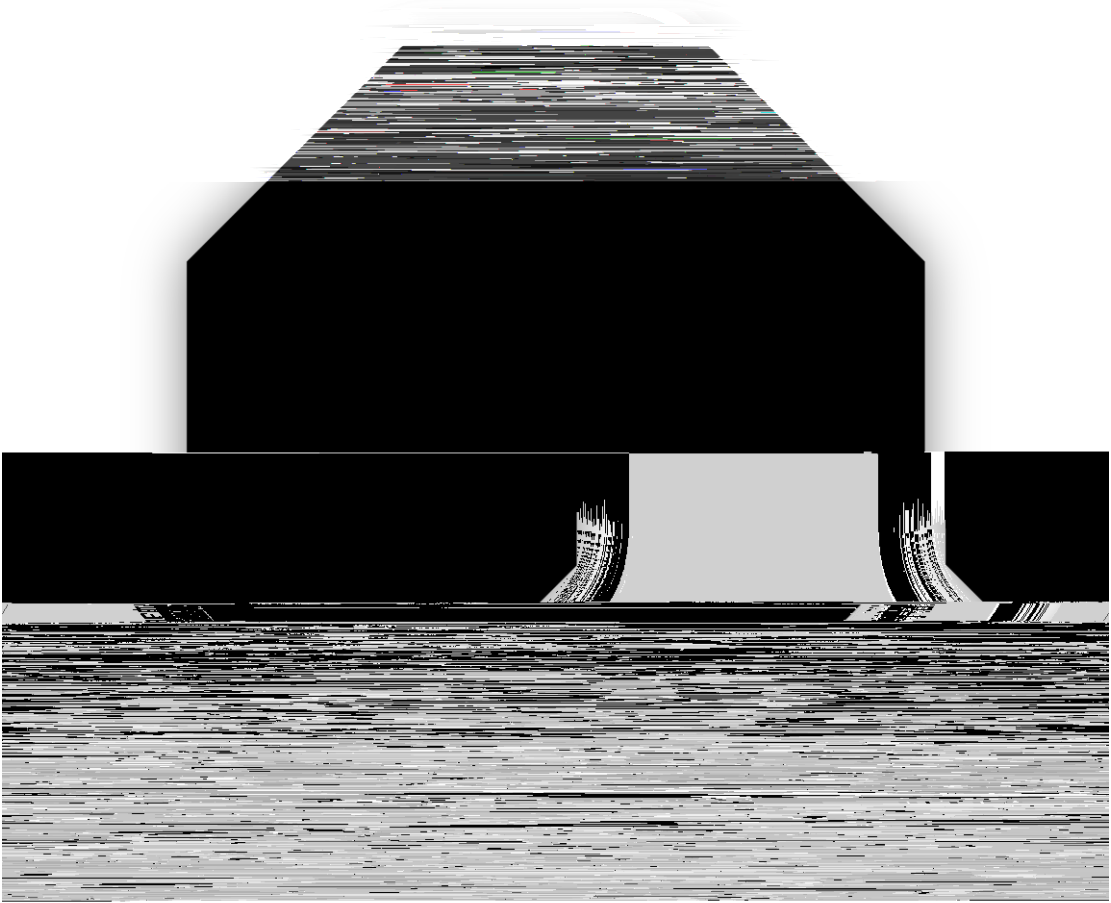
No.	Emission		Activity
	n	Facilitie	
	categories	s	





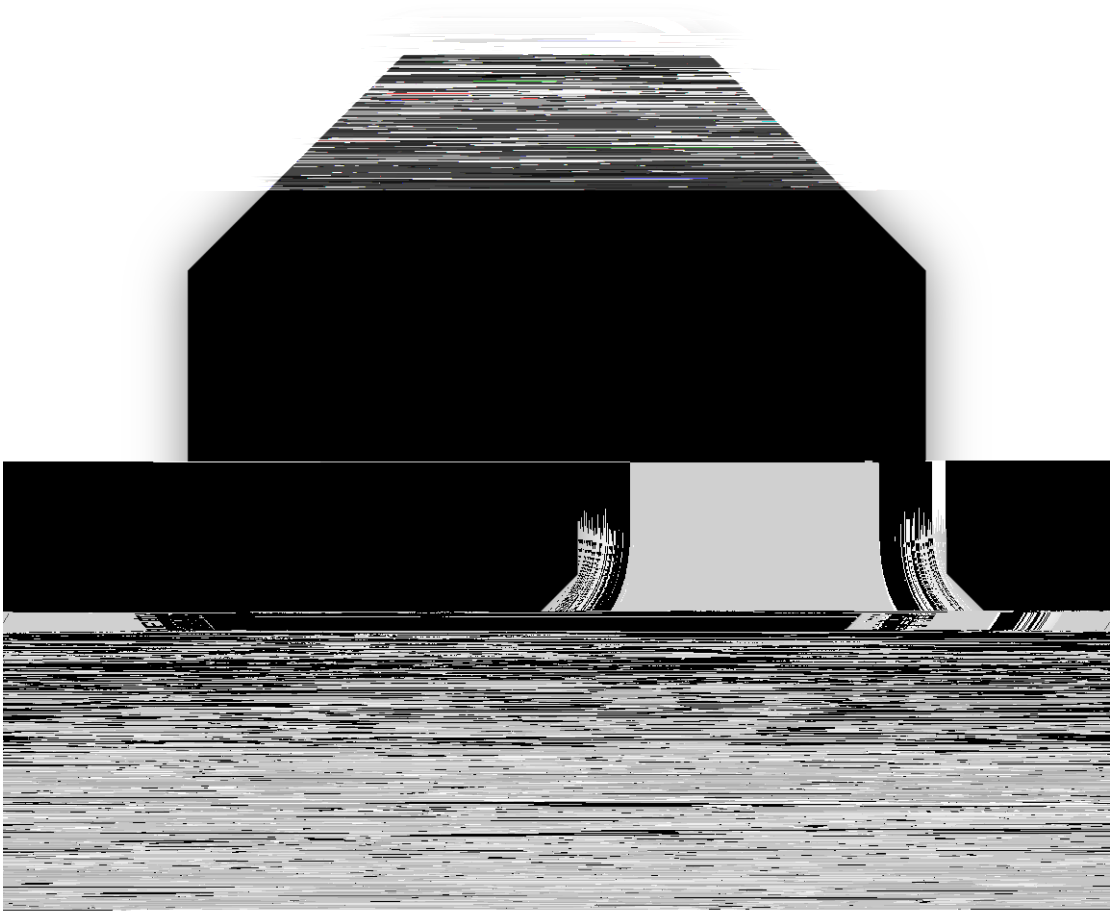


No.	Emission categories	Facilities	Activity data categories	Emission factor categories	Instrument calibration categories	Average score	Total emission (tCO ₂ e)	Emission proportion	
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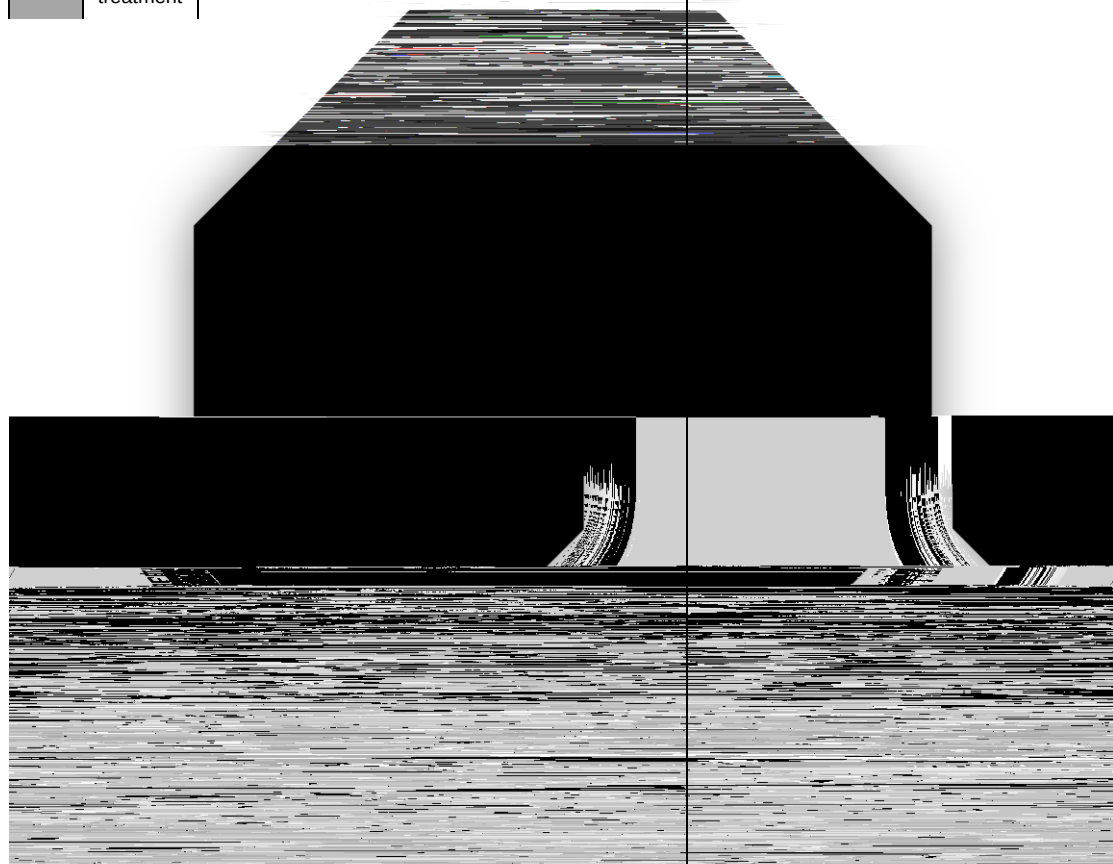


No.	Emission categories	Facilities	Activity data categories	Emission factor categories	Instrument calibration categories	Average score	Total emission (tCO ₂ e)	Emission proportion	Weighted average score
118									





No.	Emission categories	Facilities	Activity data categories	Emission factor categories	Instrument calibration categories	Average score	Total emission (tCO ₂ e)	Emission proportion	Weighted average score
129	Solid waste treatment	Cable treatment	3	1	3	2.33	278.1685	0.06%	0.0013
130	Solid waste treatment	Steel recycle	3	1	3	2.33	0.0000	0.00%	0.0000





No.	Emission Facilities categories	Activity data categories	Emission factor categories	Instrum
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uncertainty analysis	- Three factors, namely activity level data, emission factor and correction level, were evaluated. - Activity level data with low accuracy level include employee commuting, septic tank and other data. The responsible party should obtain activity level data by measured method as far as possible to improve data accuracy under the condition of technical feasibility and reasonable cost. - The lower level of accuracy of emission factor data is the data from purchased raw material, solid waste treatment, upstream & downstream material transportation, product disposal and other data. It is suggested that the responsible party adopt the detection method for characteristic emission factors to obtain a higher level of data accuracy. - Responsible parties are advised to incorporate calibration of monitoring equipment involving carbon activity level data
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Material discrepancy

After verification, the total greenhouse gas emissions of the responsible party at the organizational level in 2024-01-01~2024-12-31 were 499211.0385 tCO₂e, and the emissions reported by the greenhouse gas inventory were 499211.0385 tCO₂e. Therefore, the material deviation claimed by the responsible party is within the material threshold of verification.

3.3. Assessment of changes from prior period

The reporting boundary in 2023 from the responsible party is category 1 and category 2, and the organizational boundary in 2023 from the responsible party is No 105 Qixin Road, Economic & Technological Development Zone, Nantong, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA. The reporting boundary in 2024 from the responsible party is category 1-6, and the organizational boundary in 2024 from the responsible party is No 105 Qixin Road, Economic & Technological Development Zone, Nantong, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA, No 1 Tianchi Road, Hekou Town, Rudong, Nantong, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA, Second Floor of Office Building 3, Zhongtian Industrial Park, Hekou Town, Rudong, Nantong, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA. As both the reporting boundary and organizational boundary were changed in 2024, the base year was adjusted to 2024-01-01~2024-12-31.

4. References

- 1) ISO 14064-1:2018 *Greenhouse gases* —



Verification team qualifications:

Team leader Johny Wang:



