



VASI GROUP COMPANIES
VASI • DÖNSA İSTANBUL • DÖNSA YOZGAT • INSPIRIT • ACTIVETIME • DEMSA
VASI ŞİRKETLER GRUBU

Corporate Carbon Footprint Report
2022



This study supports the relevant United Nations Sustainable Development Goals.



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The Journey to Net Zero Emissions



ABOUT COMPANY

Name of the Company [Vasi İhracat ve İthalat Tekstil San. Tic. Ltd. Şti.](#)

Field of Activity [Socks Manufacturing](#)

Address [Osmangazi Mah. 3140 Sk. No:7
Esenyurt / İstanbul / Türkiye](#)
[Saray Köyü, OSB Mevkii,
3. Cad. No:20 Yerköy / Yozgat / Türkiye](#)

Total Area (m²)
İstanbul [10.000](#)
Yozgat [11.935](#)

Total Annual Production
in 2022 (pair socks) [35.511.246](#)

Average Number of
Employees in 2022 (person) İstanbul [257](#)
Yozgat [328](#)

Number of
Working Days in 2022 İstanbul [293](#)
Yozgat [310](#)

Vasi Group Companies; Vasi focuses on processes such as import-export, and product development, undertakes the production processes of Dönsa-Istanbul and Dönsa-Yozgat, and has been operating since 1987. Vasi and Dönsa are located in Esenyurt, İstanbul. Dönsa-Yozgat is located in Yozgat Yerköy Organized Industrial Zone.





ENVIRONMENTAL POLICY

Vasi Group Companies aspect; by determining the environmental dimensions and effects that arise while performing our activities in the sector in which we operate;

- To eliminate or minimize the damage to the environment,
- To comply with environmental legislation, administrative regulations and legal requirements,
- To create environmental awareness among customers, suppliers, employees and other relevant parties,
- To provide savings by minimizing the consumption of energy and other natural resources in all activities,
- To be respectful to the environment and to leave a good environment for future generations,
- Aiming and aiming at a sustainable ISO 14001 Environmental Management System,
- To carry out environmental activities based on the United Nations Sustainable Development Goals,
- Not contenting with maintaining our current situation, complying with all the requirements of the Environmental Management System with all these goals and policies, and adopting continuous improvement as a goal in its own sector.

CONTACT PERSON(S)

Responsible person(s) participating and contributing to this Carbon Footprint study received awareness training on climate change, sectoral developments and ISO 14064-1:2018 standard.

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INTRODUCTION

The Corporate Carbon Footprint Report included the greenhouse gas emissions of Vasi Group Companies in the calendar year of 2022 and it was prepared in accordance with articles 9.3.1 and 9.3.2 of the ISO 14064-1:2018 standard.

PURPOSE, SCOPE & OBJECTIVE

The aim of the Corporate Carbon Footprint Report is to calculate the greenhouse gas emissions and removals related to all the activities carried out within the boundaries of the Vasi Group Companies at the company level, and to make a greenhouse gas declaration according to the requirements of the ISO 14064-1: 2018 standard.

This report covers calculation methodologies of the greenhouse gas emissions within the scope of direct, indirect and other indirect emissions analysis. The study in this report aims to identify and sustainably improve the environmental impact of the company's activities.

BASE YEAR AND REPORTING PERIOD

Corporate Carbon Footprint of study is Vasi Group Companies for the period of January - December 2022. Thus, the 2019 calendar year is nominated as a base year.

REPORTING STANDARD

This Corporate Carbon Footprint Report is planned and prepared according to ISO 14064-1:2018 standards and articles of 9.2 and 9.3.

COMPANY BOUNDARIES

All activities are carried out within and under the control of Vasi Group Companies. The Carbon footprint generated within the company can be controlled. Thus, the company boundaries were determined according to the operational control principles.



REPORTING BOUNDARIES

Greenhouse gas emission sources are determined and grouped according to the ISO 14064-1: 2018 standard.

- Category 1** - Direct greenhouse gas emissions and removals
- Category 2** - Indirect greenhouse gas emissions from imported energy
- Category 3** - Indirect greenhouse gas emissions from transportation
- Category 4** - Indirect greenhouse gas emissions from products used by the company
- Category 5** - Indirect greenhouse gas emissions from the use of products manufactured by the company
- Category 6** - Indirect greenhouse gas emissions from other sources

MATERIALITY ASSESSMENT

Emission sources determined through materiality assessment in accordance with ISO 14064-1:2018 Standard Annex-H. Sources included in the inventory were calculated according to the materiality assessment, sources not included were defined as out-of-scope emission sources.

EXCLUDED EMISSION SOURCES

Due to the choice of the company, the emission sources that are out of scope are specified as ○ in the Corporate Carbon Footprint Emission Inventory List of the report.

DATA COLLECTION METHODOLOGY

The collection of activity data to be used in greenhouse gas calculations were made based on ISO 9001, ISO 14001, ERP and other relevant software owned by the company.

EMISSION FACTOR SELECTION

For greenhouse gas calculations, International Panel Climate on Change (IPCC), Department for Environment, Food and Rural Affairs (DEFRA) and national grid electricity emission factors were used.

GLOBAL WARMING POTENTIAL SELECTION

IPCC Assessment Report 5 (AR5) parameters were used for carbon dioxide equivalent (CO₂e) calculations.



CALCULATION METHODOLOGY

The calculation methodologies described by the International Panel Climate on Change (IPCC) and the Greenhouse Gas Protocol (GHG Protocol) were used.

EMISSION REMOVALS

There is no emission removal activity to be declared in this reporting period.

EMISSION REDUCTIONS / INCREASES

The company's evaluation of the increase or decrease of carbon emissions compared to the based year is in the conclusion part of the report.

EVALUATION OF UNCERTAINTIES

Confidence interval assessment of Vasi Group Companies was performed using the GHG Protocol Uncertainty Tool. The confidence interval was determined as 95% for the high category. The evaluation range is given in the table below:

Data Accuracy	Interval as Percent of Mean Value
High	+/- 5%
Good	+/- 15%
Fair	+/- 30%
Poor	More than 30%

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Precise Calculations for Environmental Sustainability



Vasi Group Companies Corporate Carbon Footprint Emissions Inventory							
Greenhouse Gas Emissions		Remarks	2022 Total tCO ₂ e	Carbon Dioxide (ton)	Methane (ton)	Nitrogen Dioxide (ton)	Quantitative Uncertainty
		GWP		1	28	265	
Category 1: Direct greenhouse gas emissions and removals			1.809,92	1.804,37	1,06	2,99735	
1.1	Direct emissions from stationary combustion						
	Natural gas used for heating	●	1.643,88	1.642,29	0,02927	0,00293	2,4%
	Diesel used in generators	●	2,92	2,91	0,00012	0,00002	2,4%
	Petrol used in generators	○					2,4%
	Coal used for heating	○					2,4%
	LPG used in welding process	○					11,1%
1.2	Direct emissions from mobile combustion						
	Diesel used in company cars and heavy commercial vehicles	●	161,28	158,84	0,00836	0,00836	3,7%
	Petrol used in company cars	○					8,5%
	Diesel used in construction machinery	○					19,1%
1.3	Direct process emissions from industrial processes						
	Oil consumption (hydraulic oil)	○					50,6%
	Grease consumption	○					50,4%
	Buying Adblue	○					2,4%
1.4	Direct emissions from leaching/leakage of greenhouse gases in anthropogenic systems						
	Refrigerants used in air conditioners	●	0,00469	0,00140			20,0%
	Refrigerants/fluids used in refrigerators, water dispensers, deep freezers	●	1,4971	0,0011			20,0%
	Refrigerants used in fire extinguishers	●	0,34	0,34			15,0%
	SF ₆ gases used in transformers	●	0,00063	0,00003			20,0%
	Emissions from wastewater treatment plant	○					49,5%
1.5	Direct emissions from land use, land use change and forestry activities						
	Direct emissions from biomass	○					
Category 2: Indirect greenhouse gas emissions from imported energy			3.139,23	3.139,23			
2.1	Indirect emissions from imported electricity						
	Electricity consumption	●	3.139,23	3.139,23			10,0%



Vasi Group Companies Corporate Carbon Footprint Emissions Inventory							
Greenhouse Gas Emissions		Remarks	2022 Total tCO ₂ e	Carbon Dioxide (ton)	Methane (ton)	Nitrogen Dioxide (ton)	Quantitative Uncertainty
2.2	Indirect emissions from imported energy						
	Steam consumption	○					10,0%
Category 3: Indirect greenhouse gas emissions from transportation			218,51	216,53	0,18968	1,80	
3.1	Emissions from upstream transport and distribution of goods (to the organization)						
	Transport and distribution of goods by subcontractor	○					
3.2	Emissions from downstream transport and distribution of goods (outgoing organization)						
	Air Transport	○					
	Land Transport	●	44,89	44,89			
	Water Transport	○					
3.3	Emissions from employee transportation						
	Diesel used in personnel service vehicles	●	130,70	128,71	0,00677	0,00677	
3.4	Emissions from customer and visitor transportation						
	Customer and visitor transportation	○					
3.5	Emissions from business travel						
	Emissions from company air travel	●	40,66	40,66			
	Emissions from company taxi trips	○					
	Emissions from accommodation	●	2,26	2,26			
3.6	Emissions from remote workers						
	Office equipment and heat energy at home	○					
Category 4: Indirect greenhouse gas emissions from products used by the company			1.337,46	1.337,46			
4.1	Emissions from purchased products						
	Water supply	●	3,62	3,62			
	Purchasing paper-cardboard products	●	1,98	1,98			
	Purchase of plastic products	○					
	Purchase of metal products	○					
	Purchase of glass products	○					



Vasi Group Companies Corporate Carbon Footprint Emissions Inventory							
Greenhouse Gas Emissions		Remarks	2022 Total tCO ₂ e	Carbon Dioxide (ton)	Methane (ton)	Nitrogen Dioxide (ton)	Quantitative Uncertainty
	Purchase of construction products	○					
	Purchase of food products	●	4,28	4,28			
	Purchase of fabrics	○					
4.2	Greenhouse gas emissions from the services used						
	Emissions from the production, delivery and processing of fuels (WTT)	●	659,68	659,68			
4.3	Emissions from capital assets (movable & immovable)						
	Purchase of electrical products	○					
	Purchasing office products	○					
4.4	Emissions from recycling and disposal of solid and liquid waste						
	Wastewater treatment	●	6,61	6,61			
	Plastic waste recycling	○					
	Recycling of paper-cardboard waste	●	0,46	0,46			
	Recycling of scrap metal waste	○					
	End-of-life tires	○					
	Recycling of glass products	○					
	Recycling of construction products	○					
	Recycling of batteries	○					
	Commercial and industrial waste	●	659,59	659,59			
	Disposal of electrical products	○					
	Disposal of metal products	○					
	Disposal of domestic solid waste	●	1,23	1,23			
	Disposal of hazardous waste	○					
	Disposal of medical waste	○					
	Energy recovery of waste oils	○					
4.5	Emissions from the purchase/use of services not disclosed in the above subcategories						
	LPG cylinders used in the dining hall	○					



Vasi Group Companies Corporate Carbon Footprint Emissions Inventory						
Greenhouse Gas Emissions	Remarks	2022 Total tCO ₂ e	Carbon Dioxide (ton)	Methane (ton)	Nitrogen Dioxide (ton)	Quantitative Uncertainty
Category 5: Indirect greenhouse gas emissions from the use of products manufactured by the company						
5.1 Emissions or removals from the use phase of the product	○					
5.2 Emissions from downstream leased assets	○					
5.3 Emissions from end-of-life of the product	○					
5.4 Emissions from investments	○					
Category 6: Indirect greenhouse gas emissions from other sources						
Emissions from other sources	○					
TOTAL		6.505,12	6.497,58	1,25	4,79	

REMARKS

- Included Emission Source
- Excluded Emission Source
- Not Available Within the Company

tCO₂e - It represents the sum of the emissions obtained by multiplying the greenhouse gases with the relevant Global Warming Potential (GWP) value.

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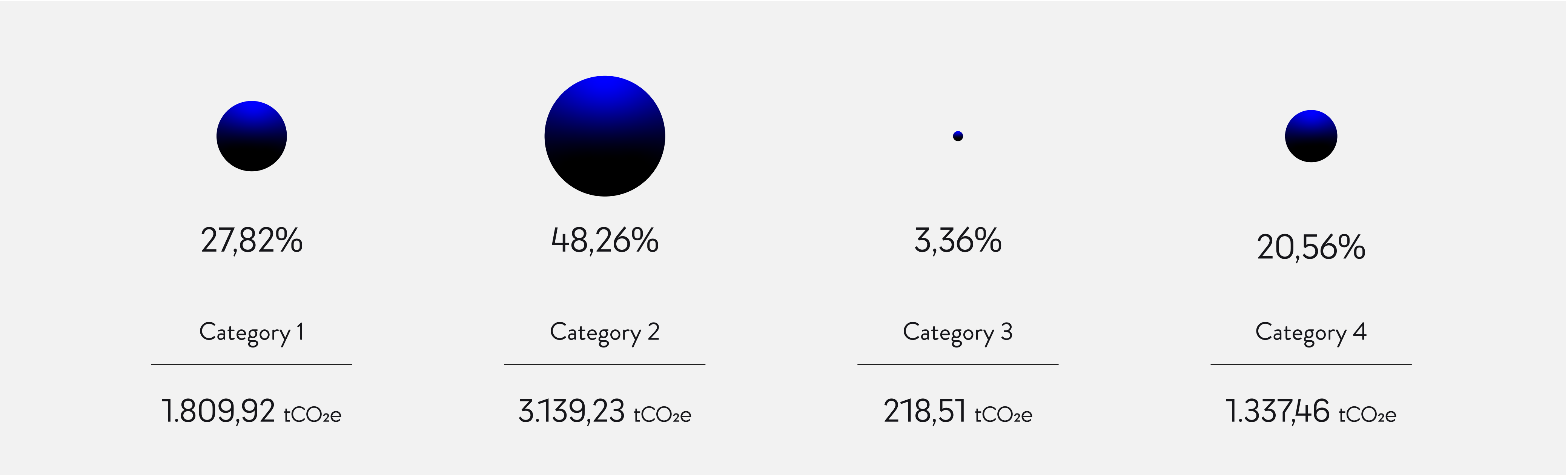


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Right Methods for Accurate Results



GREENHOUSE GAS EMISSIONS BY CATEGORY





CATEGORY 1 TOTAL GREENHOUSE GAS EMISSIONS

1.809,92 tCO₂e



Natural Gas

1.643,88
tCO₂e

90,83%



Refrigerants

1,50
tCO₂e

0,08%



Diesel
Company Cars

161,28
tCO₂e

8,91%



Fire
Extinguishers

0,336
tCO₂e

0,0186%



Diesel
Generators

2,92
tCO₂e

0,16%

CATEGORY 2 TOTAL GREENHOUSE GAS EMISSIONS

3.139,23 tCO₂e



Electricity

3.139,23
tCO₂e

100%

CATEGORY 3 TOTAL GREENHOUSE GAS EMISSIONS

218,51 tCO₂e



Employee Services

130,70
tCO₂e

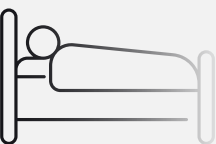
59,81%



Cargo

44,89
tCO₂e

20,54%



Accommodation

2,26
tCO₂e

1,03%



Business Travel
Airplane

40,66
tCO₂e

18,61%

CATEGORY 4 TOTAL GREENHOUSE GAS EMISSIONS

1.337,46 tCO₂e



Water Supply

3,62
tCO₂e

0,27%



Purchase of
Paper Products
Paper

1,98
tCO₂e

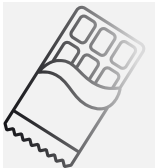
0,15%



Water Treatment

6,61
tCO₂e

0,49%



Purchase of Food and
Drink Products

4,28
tCO₂e

0,32%



Well to Tank

659,68
tCO₂e

49,32%



Recycling & Disposal
of Solid Waste

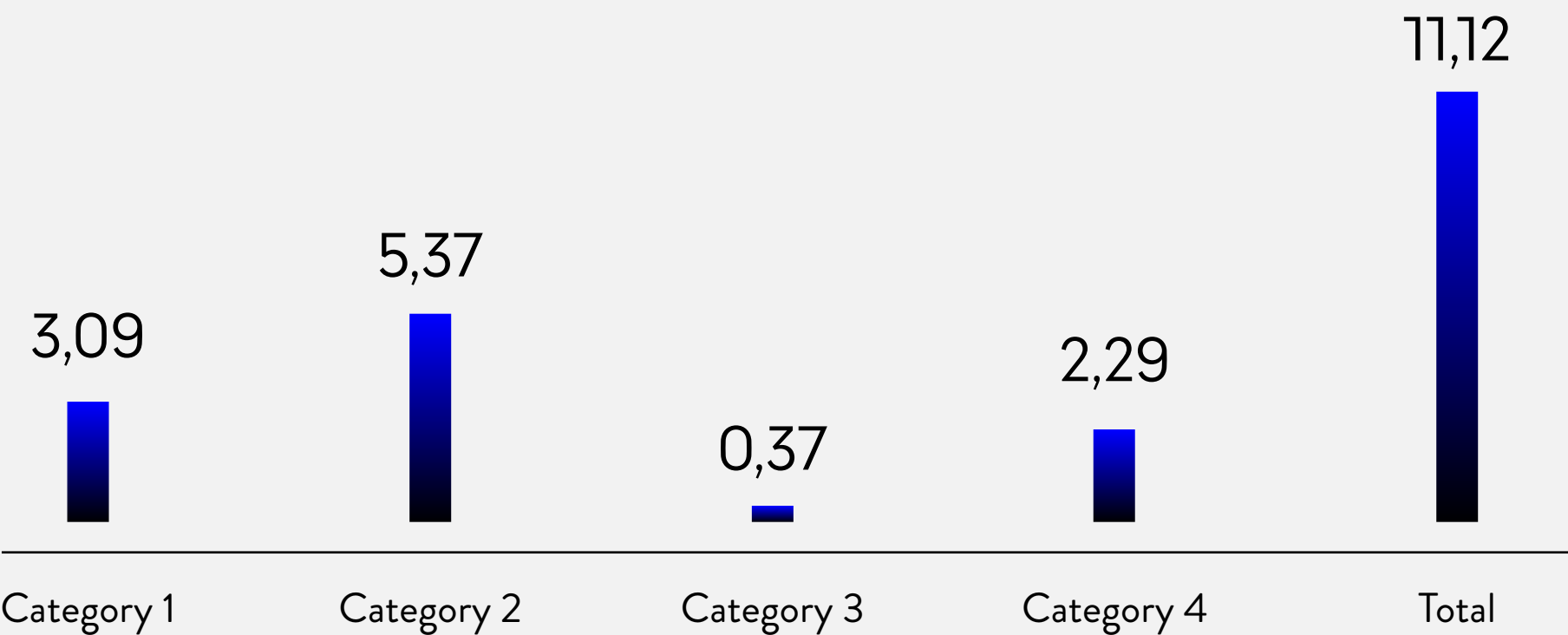
661,29
tCO₂e

49,44%

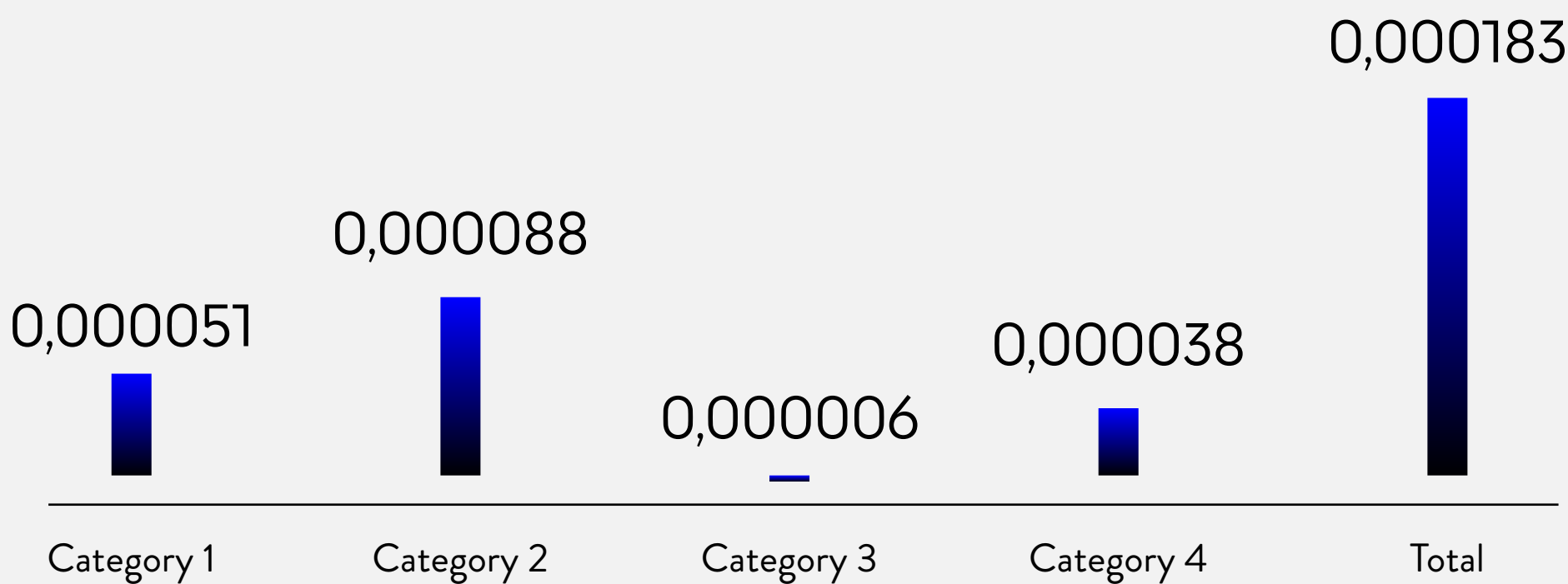
EMISSION INTENSITY

Emission intensity within the organization is monitored by the number of employees and the amount of emissions per annual production amount. The table below shows the emission intensity values per employee and per production unit in the reporting period.

TOTAL EMISSIONS PER EMPLOYEE tCO₂e / employee



TOTAL EMISSIONS PER PRODUCT tCO₂e / per socks



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Take Control of Your Carbon Impact



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MITIGATION ACTIONS

Renewable Energy Certificate (I-REC) is applied for electricity use during the reporting period. I-REC expands the organization's electricity service options, communicates environmental attributes and renewable electricity use claims, and supports renewable electricity development. It represents the environmental benefits of certain actions that can help reduce greenhouse gas emissions.

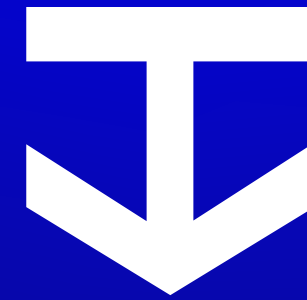


The certificate verifies that renewable electricity comes from a zero-emissions source, which reduces the organization's emissions associated with electricity use for category 2. Thus, the organization has reduced its category 2 emissions by approximately **100%**.

CONCLUSION

- 1 - Vasi Group Companies' total carbon footprint is analyzed as **6.505,12** tCO₂e for 2022 operations.
- 2 -Category 1 represents **27,82%** of the company's total carbon emissions.
Natural gases consumption has been identified as the main emission source in this category.
- 3 - Electrical energy use (Category 2) represents **48,26%** of Vasi Group Companies' total emissions.
Energy usage from IREC-certified electricity reduced the company's Category 2 emissions.
- 4 - Category 3 represents **3,36%** of the total emissions of the company. Improvements can be made by choosing low-carbon options for cargo usage.
- 5 - Category 4 represents **20,56%** of the total emission amount of the company. When emission sources were examined, it was observed that the highest effect was caused by Recycling and disposal of solid and liquid waste. The carbon footprint of the company can be reduced by purchasing products/materials which are recycled and sustainable options.





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In collaboration with **SUSTAINABLEWORKSSTATION**

Collaboration is crucial for change, transition, and sustainable development.
No one should be left behind.

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