



erateks

Corporate Carbon Footprint Report
2023



This study supports the relevant United Nations Sustainable Development Goals.

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The Journey to Net Zero Emissions



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ABOUT COMPANY

Name of the Company **Erateks Tekstil San. ve Tic. A.Ş**

Average Number of Employees in 2023 (person) **700**

Address **Zafer Mah. 140. Sok. No:45/1 34513, Esenyurt, İstanbul, Türkiye**

Erateks Tekstil San. ve Tic. A.Ş. was established in 1992 and carries out its operations in Turkey through two main plants located in Istanbul and Ordu. Erateks carries out the raw material and product development, production, sales, and export activities in cooperation with global brands, supply chains, and other stakeholders in the fashion industry.

Total Area (m²) **12.521**

Total Annual Production in 2023 (unit) **4.680.175**



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ENVIRONMENTAL POLICY

Today, climate change poses a major threat to the sustainability of our planet and life. In the face of this threat, we care about the right to life of future generations and all living things on the planet, and we fulfill our corporate responsibility in this regard through our efforts.

Under the guidance of Erateks leadership, the operational responsibility of the Corporate Sustainability Team, and in cooperation with other relevant stakeholders, we fight against climate change and take the necessary actions for environmental safety. In this context, Erateks has become a signatory to the United Nations Framework Convention on Climate Change - UNFCCC and committed to meeting the relevant requirements.

The main studies we have carried out in this context are; Corporate Carbon Footprint Analysis, HIGG Index, I-REC certified renewable energy consumption, energy efficiency studies, Zero Waste Basic certification, rainwater collection and utilization, reduction in total waste amount, switching from LNG to natural gas.

We are making decisive progress on environmental and water security issues. Sustainability strategies have been adopted to minimize our environmental impact and protect natural resources. We also manage water resources effectively through water-saving projects and recycling systems.

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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Corporate Integrity

INTRODUCTION

The Corporate Carbon Footprint Report included the greenhouse gas emissions of Erateks in the calendar year of 2023 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 Erateks 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

This analysis is the Corporate Carbon Footprint of Erateks for the period January - December 2023. In this reporting study, the calendar year 2021 has been determined as the 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 Erateks. 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, SAP and other relevant software owned by the company.

EMISSION FACTOR SELECTION

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

GLOBAL WARMING POTENTIAL SELECTION

IPCC Assessment Report 6 (AR6) parameters were used for carbon dioxide equivalent (CO₂e) calculations.

CALCULATION METHODOLOGY

The calculation methodologies described by the International Panel Climate on Change (IPCC), the Greenhouse Gas Protocol (GHG Protocol), and GHG Protocol Uncertainty Tool 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

Erateks' confidence range assessment was determined as 95% by GHG Protocol Uncertainty Tool. The assessment's meaning is the high category. A typical scale is given below in the table:

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



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Erateks Corporate Carbon Footprint Emissions Inventory		● Included Emission Source	○ Excluded Emission Source	○ Not Available Within the Company	
Greenhouse Gas Emissions		Remarks	2023 Total tCO ₂ e	Headquarters tCO ₂ e	Fatsa Factory tCO ₂ e
Category 1: Direct greenhouse gas emissions and removals			329,04	215,23	113,81
1.1	Direct emissions from stationary combustion				
	Natural gas used for heating	●	97,65		97,65
	Diesel used in generators	○			
	Petrol used in generators	○			
	Coal used for heating	○			
	LPG used in welding process	○			
1.2	Direct emissions from mobile combustion				
	Diesel used in company cars and heavy commercial vehicles	●	51,56	37,08	14,48
	Petrol used in company cars	●	19,87	19,87	
	Diesel used in construction machinery	○			
1.3	Direct process emissions from industrial processes				
	Oil consumption (hydraulic oil)	○			
	Grease consumption	○			
	Buying Adblue	○			
1.4	Direct emissions from leaching/leakage of greenhouse gases in anthropogenic systems				
	Refrigerants used in air conditioners	●	59,40	57,72	1,68
	Refrigerants/fluids used in refrigerators, water dispensers, deep freezers	○			
	Refrigerants used in fire extinguishers	●	100,56	100,56	0,001
	SF ₆ gases used in transformers	○			
	Emissions from wastewater treatment plant	○			
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			743,13	223,21	519,92
2.1	Indirect emissions from imported electricity				
	Electricity consumption	●	743,13	223,21	519,92
2.2	Indirect emissions from imported energy				
	Steam consumption	○			



Erateks Corporate Carbon Footprint Emissions Inventory		● Included Emission Source	○ Excluded Emission Source	○ Not Available Within the Company	
Greenhouse Gas Emissions		Remarks	2023 Total tCO ₂ e	Headquarters tCO ₂ e	Fatsa Factory tCO ₂ e
Category 3: Indirect greenhouse gas emissions from transportation			237,30	112,77	124,53
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	●	18,15	18,15	
	Land Transport	●	118,56	44,5	74,06
	Water Transport	●	1,19	1,19	
3.3	Emissions from employee transportation				
	Diesel used in personnel service vehicles	●	62,52	15,93	46,59
3.4	Emissions from customer and visitor transportation				
	Customer and visitor transportation	○			
3.5	Emissions from business travel				
	Emissions from company air travel	●	18,91	16,96	1,95
	Emissions from company taxi trips	○			
	Emissions from accommodation	●	17,97	16,04	1,93
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			6.364,44	5.799,61	564,83
4.1	Emissions from purchased products				
	Water supply	●	1,28	0,14	1,14
	Purchasing paper-cardboard products	●	4,70	1,63	3,07
	Purchase of plastic products	●	3,93	0,13	3,80
	Purchase of food products	●	548,80	58,73	490,07
	Purchase of cotton	●	2.755,63	2.755,63	
	Purchase of polyester	●	2.957,19	2.957,19	
4.2	Greenhouse gas emissions from the services used				
	Emissions from the production, delivery and processing of fuels (WTT)	●	12,78	9,55	3,23

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Erateks Corporate Carbon Footprint Emissions Inventory		● Included Emission Source	○ Excluded Emission Source	○ Not Available Within the Company	
Greenhouse Gas Emissions	Remarks	2023 Total tCO ₂ e	Headquarters tCO ₂ e	Fatsa Factory tCO ₂ e	
4.2 Greenhouse gas emissions from the services used					
	WTT for business travel - Airplane Economy Class	●	2,16	1,94	0,22
	WTT due to business travel - Airplane Business Class	●	12,78	9,55	3,23
	WTT due to cargo and transportation	●	28,79	12,42	16,37
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	●	2,35	0,26	2,08
	Plastic waste recycling	●	0,18	0,04	0,14
	Recycling of paper-cardboard waste	●	0,62	0,42	0,20
	Recycling of scrap metal waste	●	0,04		0,04
	End-of-life tires	○			
	Recycling of glass waste	○			
	Recycling of construction products	○			
	Recycling of batteries	○			
	Commercial and industrial waste	○			
	Disposal of domestic solid waste	●	43,82	0,12	43,70
	Disposal of hazardous waste	●	0,01	0,001	0,01
	Disposal of medical waste	○			
	Disposal of textile waste	●	2,17	1,41	0,76
4.5 Emissions from the purchase/use of services not disclosed in the above subcategories					
	LPG cylinders used in the dining hall	○			
	Supply chain operations	○			
TOTAL			7.673,91	6.350,82	1.323,09



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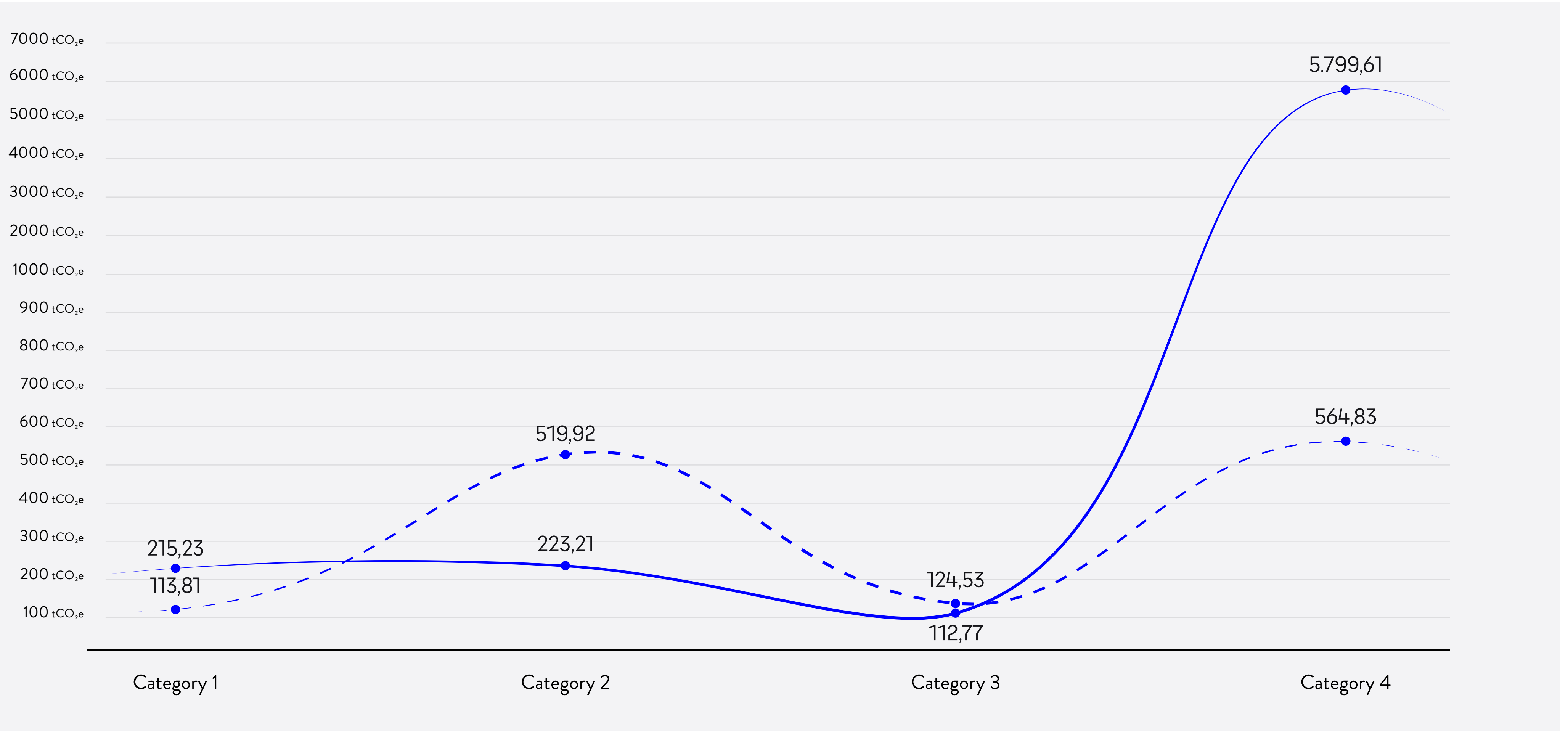
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Right Methods for Accurate Results



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GREENHOUSE GAS EMISSIONS BY CATEGORY



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82,76%

Headquarters **6.350,82** tCO₂e

17,24%

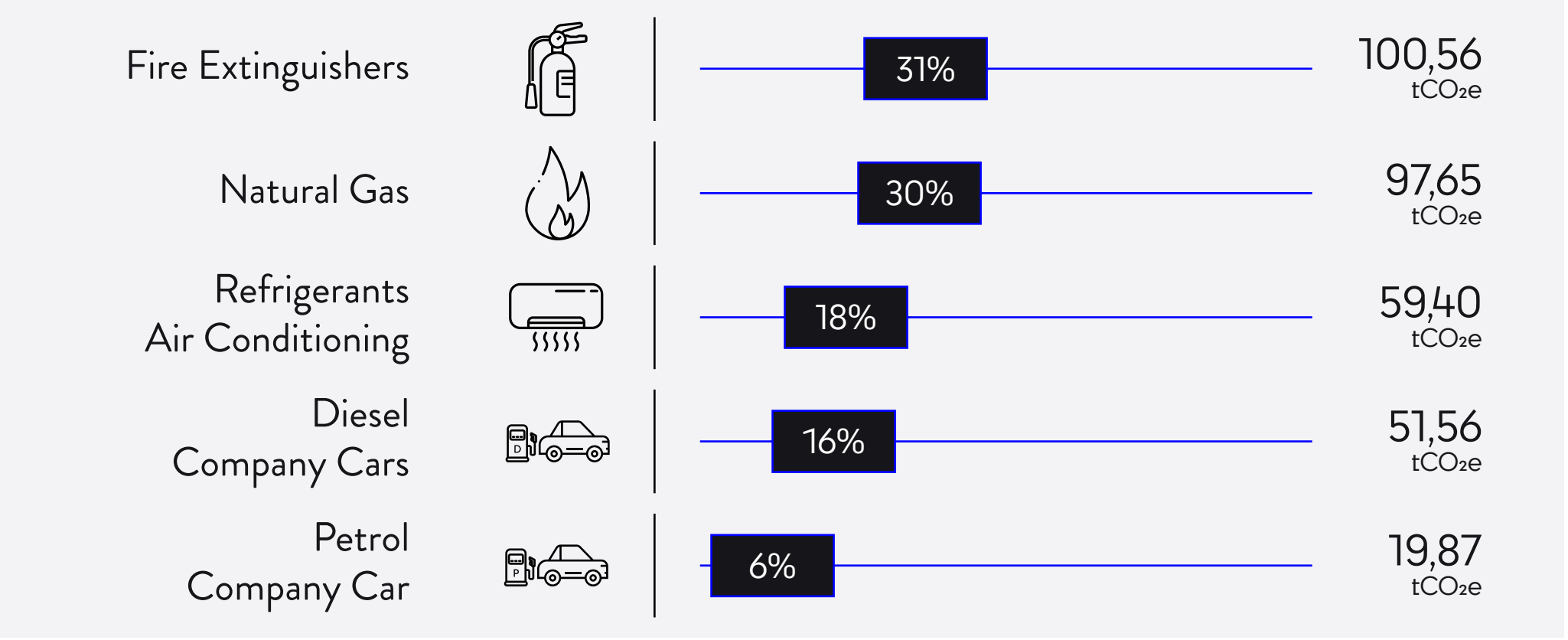
Fatsa Factory **1.323,09** tCO₂e





CATEGORY 1 TOTAL GHG EMISSIONS

329,04 tCO_{2e}





CATEGORY 2 TOTAL GHG EMISSIONS

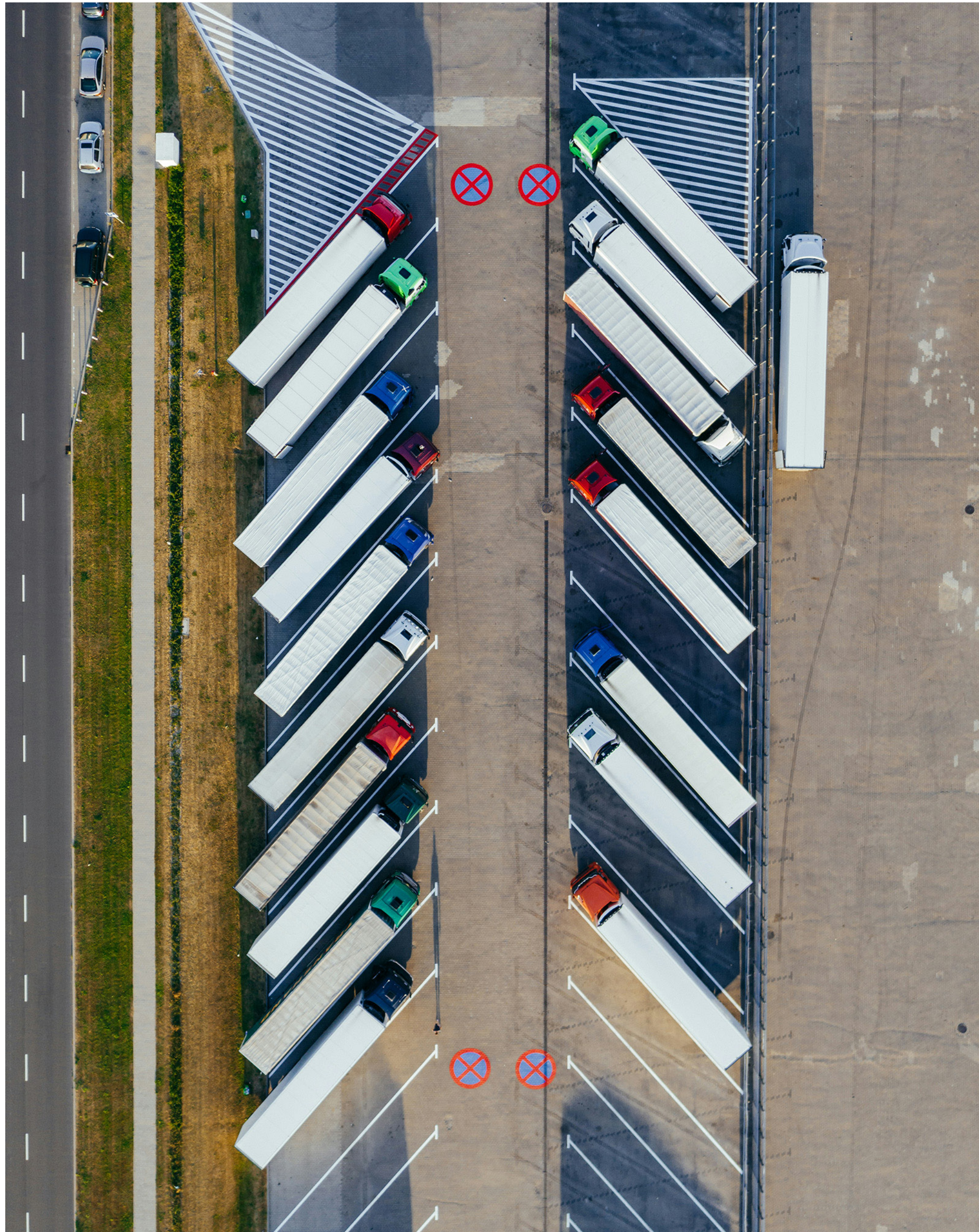
743,13 tCO₂e

Electricity




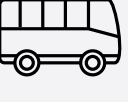


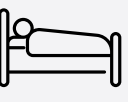

100%

743,13
tCO₂e



CATEGORY 3 TOTAL GHG EMISSIONS

237,30 tCO₂e

Land Transport		49,96%	118,56 tCO ₂ e
Employee Services		26,35%	62,52 tCO ₂ e
Business Travel Airplane		7,97%	18,91 tCO ₂ e
Air Transport		7,65%	18,15 tCO ₂ e
Business Travel Accommodation		7,57%	17,97 tCO ₂ e
Water Transport		0,50%	1,19 tCO ₂ e



CATEGORY 4 TOTAL GHG EMISSIONS

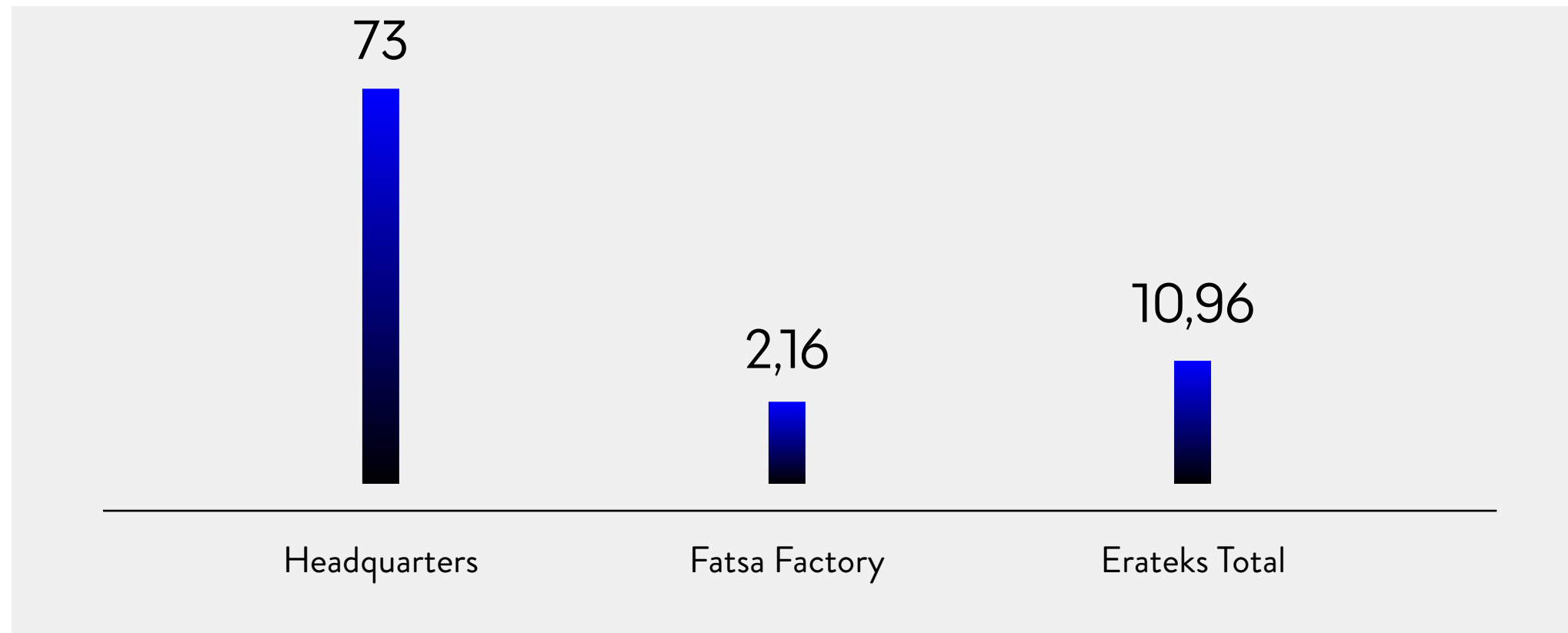
6.364,44 tCO_{2e}

Purchase of Polyester Fabric		46,46%	2.957,19 tCO _{2e}
Purchase of Cotton Fabric		43,3%	2.755,63 tCO _{2e}
Purchase of Food		8,62%	548,80 tCO _{2e}
Disposal of Domestic Waste		0,69%	43,82 tCO _{2e}
WTT - Delivery (Air, Land, Water)		0,45%	28,79 tCO _{2e}
WTT - Fuels (production, delivery and processing)		0,2%	12,78 tCO _{2e}
Purchase of Paper Products		0,07%	4,70 tCO _{2e}
Purchase of Plastic Products		0,06%	3,93 tCO _{2e}
Wastewater Treatment		0,04%	2,35 tCO _{2e}
Disposal of Textile Waste		0,03%	2,17 tCO _{2e}
WTT - Business Travel (Air - Economy Class)		0,03%	2,16 tCO _{2e}
Water Supply		0,02%	1,28 tCO _{2e}
Recycle of Paper Waste		0,01%	0,62 tCO _{2e}
Recycle of Plastic Waste		0,003%	0,18 tCO _{2e}
Recycle of Scrap Metal Waste		0,001%	0,04 tCO _{2e}

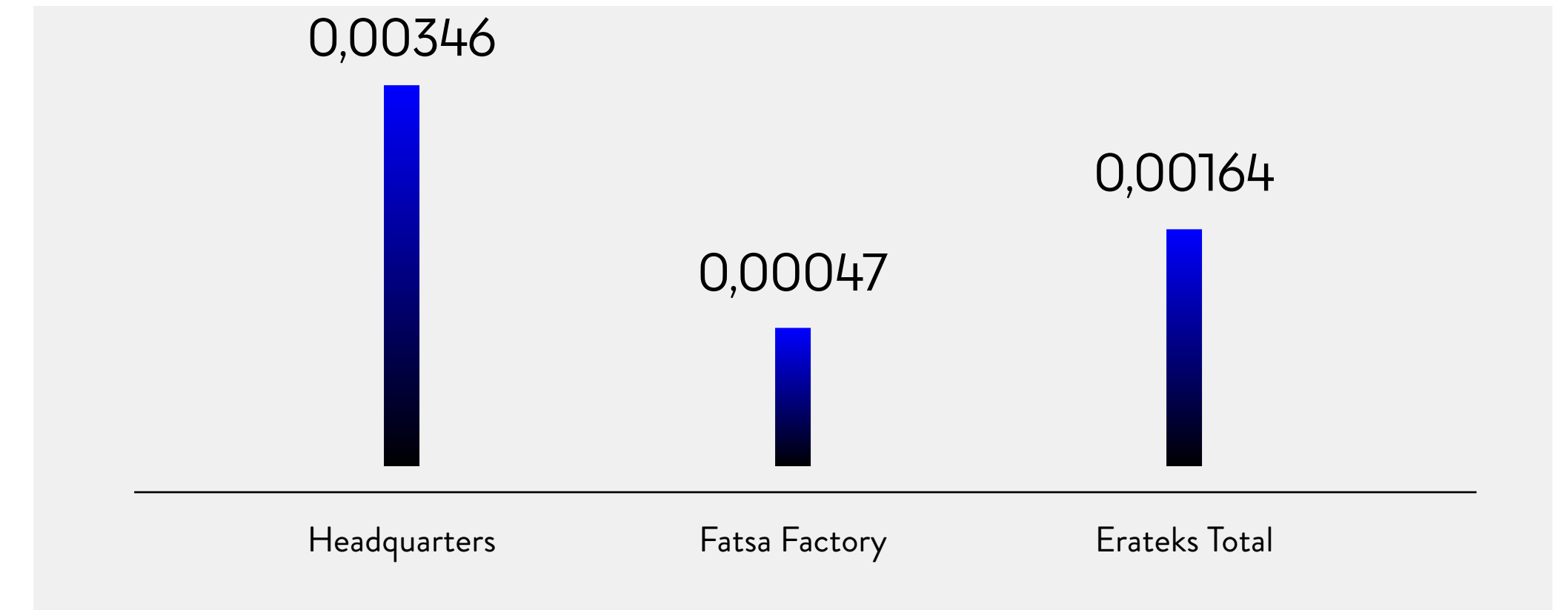
EMISSION INTENSITY

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 tCO_{2e} / employee



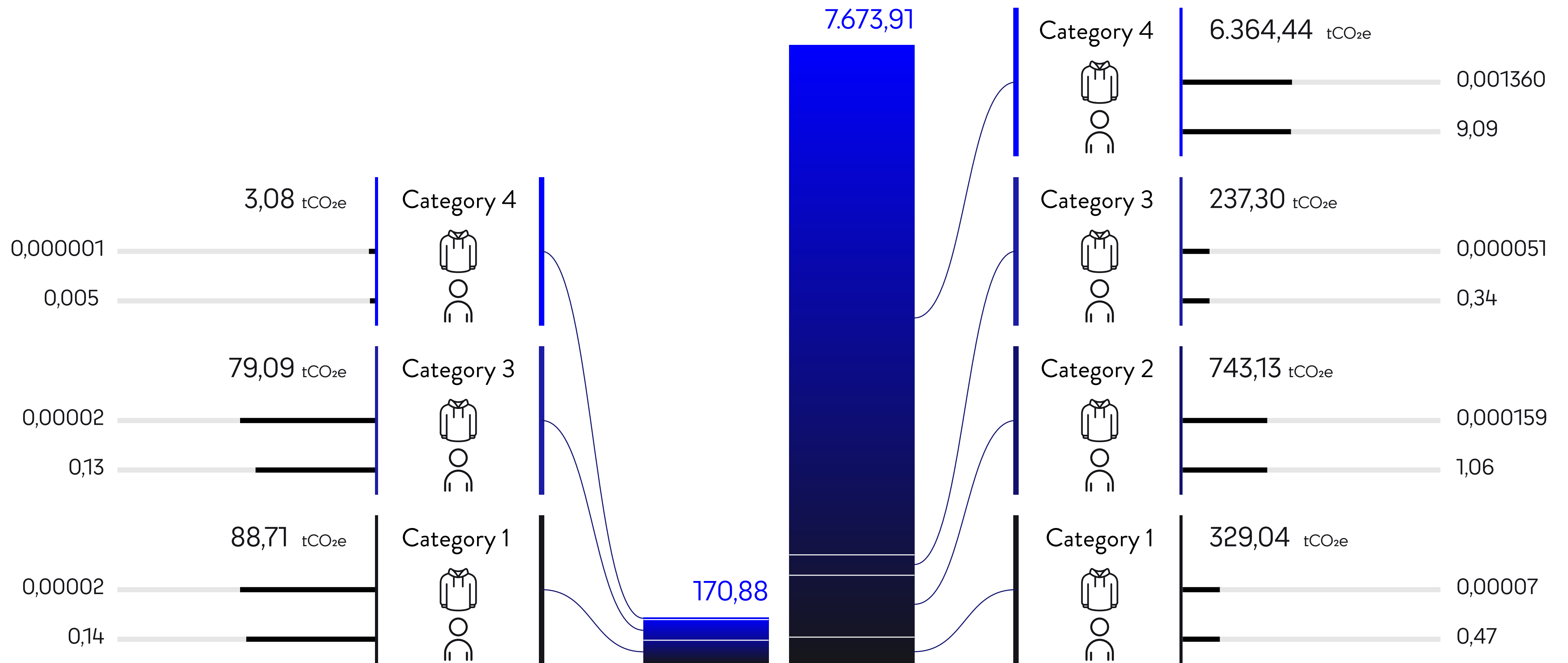
TOTAL EMISSIONS PER PRODUCT tCO_{2e} / unit





(Base Year) 2021

YEAR ON YEAR MONITORING

2023



 Emissions per unit product
  Emissions per employee

- Base year calculations didn't include Category 2 because of I-REC certification. Although I-REC certification continues in 2023, relevant category calculations are demonstrated in this study due to transparency principle of our corporate sustainability commitment.
- The significant increase in emissions in Category 4 is due to the inclusion of additional purchased materials.
- The significant increase in total emissions is again due to the expanded scope of the calculation based on Categories 3 and 4.



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Take Control of Your Carbon Impact



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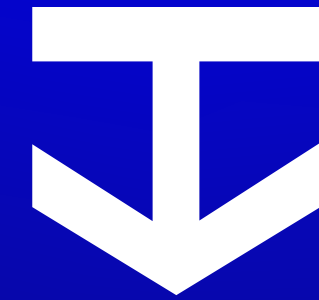
MITIGATION ACTIONS

- Renewable Energy Certificate (I-REC) is applied for electricity use during the reporting period. The I-REC expands the organization's electricity service options, conveys environmental attributes and claims for the use of renewable electricity, and supports the development of renewable electricity. It represents the environmental benefits of specific actions that can help reduce greenhouse gas emissions.
- The certificate verifies that the renewable electricity comes from a low or zero emission source that reduces the organization's emissions associated with electricity use for category 2. Thus, the organization has offset its market-based category 2 emissions by **98%**.
- Erateks donated **112** saplings to TEMA in order to offset the emissions caused by the purchased paper-cardboard products category.



CONCLUSION

- 1 - Erateks Tekstil's Corporate Carbon Footprint Calculation and Reporting has been calculated for 2023 only for Categories 1, 2, 3 and 4.
- 2 - Erateks Tekstil's total carbon footprint for 2023 for Category 1, 2, 3 and 4 operations is calculated as **7.673,91** tCO₂e.
- 3 - Category 1 accounts for **4%** of the total carbon emission amount of the organization. Fire extinguishers consumption in the business was identified as the main emission source in this category and accounts for **31%** of total Category 1 emissions.
- 4 - Category 2, electricity consumption, accounts for **10%** of Erateks Tekstil's total emissions. However, since the company uses IREC certified electricity, emissions in this category have been offset by **98%**.
- 5 - Category 3 accounts for **3%** of Erateks Tekstil's total carbon footprint, with emissions from road transportation accounting for **50%** of the emissions in this category.
- 6 - Category 4 accounts for **83%** of Erateks Tekstil's total carbon footprint. The purchase of polyester-fabric in the business has been identified as the main source of emissions in this category and accounts for **46,46%** of total Category 4 emissions.
- 7 - The company's emissions per employee is calculated as **10,96** tCO₂e in 2023.
- 8 - The company's emissions per unit production is calculated as **0.00164** tCO₂e in 2023.



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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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