GREENHOUSE GAS EMISSIONS INVENTORY 2024

for

Naturel Holding A.S
Climate Technology Subsidiaries

NATUREL ENERJİ ESENBOĞA ELEKTRİK MARGÜN ENERJİ

INVENTORY PERIOD: 01.01.2024-31.12.2024
REPORT DATE: 15.08.2025

SUSTAINABLE FUTURE PROJECT AND CONSULTANCY SERVICES LTD. CO.

Sustainable Future

CONTENTS

TABLES

FIGURES

ANNEX

ANNEX 1 GREENHOUSE GAS INVENTORY

ANNEX 2- GHG DATA SOURCES AND INVENTORY

1. ABOUT THE REPORT

Greenhouse Gas (GHG) Inventory Report has been prepared in accordance with the ISO 14064-1:2018 standard, ensuring transparency, accuracy and consistency in the quantification and reporting of organisational emissions. The scope of this report includes all relevant direct (Scope 1) and energy-related indirect (Scope 2) greenhouse gas emissions, as well as other indirect emissions (Scope 3). The calculations include Direct Emissions, indirect GHG emissions from imported energy sources, indirect GHG emissions from transportation, and indirect GHG emissions from products and services purchased by the organization.

The corporate boundaries are defined according to the operational control approach. In accordance with this approach, the companies account for 100% of emissions from facilities and operations where it has the authority to implement and enforce operational policies. Geographical boundaries include Naturel Enerji, Margun Enerji, and Esenboga Elektrik, which were under operational control throughout the reporting year. The EPC services and power plants have been included in the calculations.

The consolidation methodology is based on the principle of operational control, which ensures consistent and comprehensive reporting across all business units. This approach enables the companies to capture and manage emissions data from activities directly affected by corporate policies and practices.

Due to the expansion of greenhouse gas emissions inventory boundaries, a new base year has been determined for the reporting period. This base year serves as a reference point for tracking future performance, progress towards reduction targets, and continuous improvement in the companies' climate strategy.

In the Greenhouse Gas Inventory studies, data for the period between 01 January 2024 and 31 December 2024 were used. The inventory period from 1 January 2024 - 31 December 2024 has been updated as the organisation's ‘Base Year’. The companies' 2022 and 2023 calculations have been provided, but the base year has been changed due to the expansion of the scope of activities.

The process management followed in greenhouse gas inventory studies consists of the following steps:

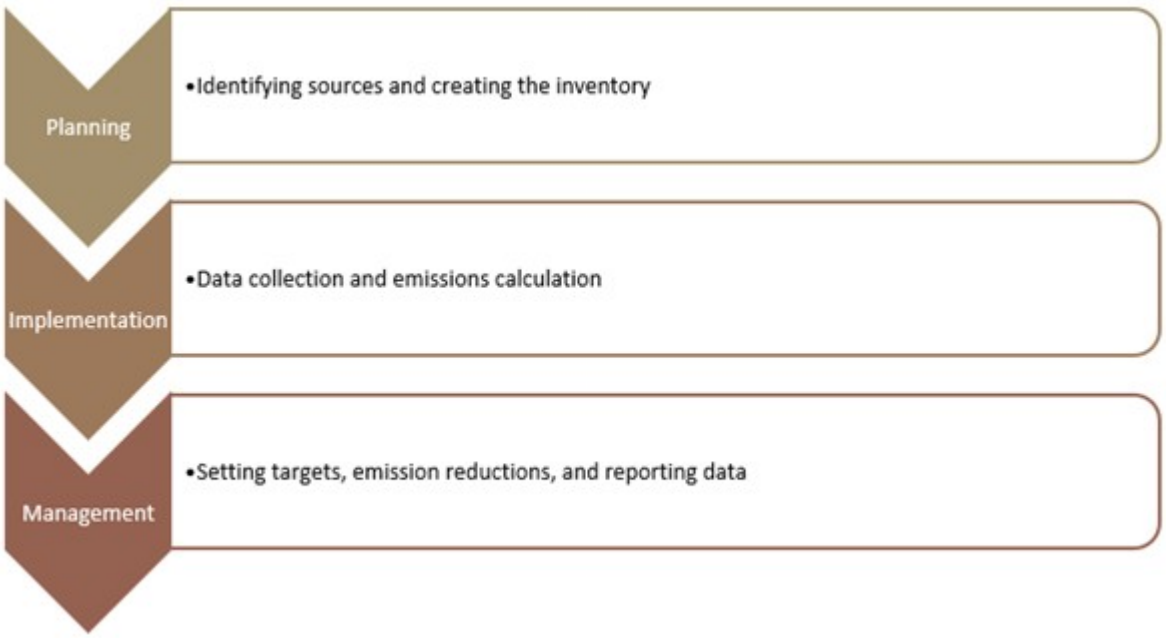

Figure 1 Process Management in Greenhouse Gas Inventory Studies

2. DEFINITIONS

- **Greenhouse Gas:** Both natural and anthropogenic gas component of the atmosphere, absorbed and released by the earth, atmosphere and clouds at certain wavelengths in the infrared radiation spectrum range. Greenhouse gases are the seven greenhouse gases under the control of the Kyoto Protocol: Carbon dioxide (CO_2), Methane (CH_4), Dinitrogen monoxide (N_2O), Hydrofluorocarbons (HFC), Perfluorocarbons (PFCs), and Sulphur hexafluoride (SF_6) and Nitrogen Trifluoride (NF_3).
- **CO_2e**: The common unit used to address greenhouse gas emissions that have different effects on climate change. It is a measure of the impact of each gas on climate change and is expressed in relation to its CO_2 potential.
- **Greenhouse Gas Source:** process that releases a GHG into the atmosphere
- **Greenhouse Gas Sink:** process that removes a GHG from the atmosphere
- **Greenhouse gas emission:** The total mass of a greenhouse gas emitted into the atmosphere over a given period.
- **Emission Factor:** Factor related to activity data for emissions of greenhouse gases
- **Activity Data:** A quantitative measure of the activity that results in the emission or removal of a greenhouse gas.
- **Greenhouse Gas Inventory:** list of GHG sources and GHG sinks, and their quantified GHG emissions and GHG removals
- **Global Warming Potential:** A factor to describe the mass-based radiative forcing effect of a given greenhouse gas in terms of carbon dioxide equivalent over a given time interval.

- **Base Year:** Specific, historical period identified for the purpose of comparing GHG emissions or GHG removals
- **Direct Greenhouse Gas Emission:** GHG emission from GHG sources owned or controlled by the organization
- **Energy Indirect Greenhouse Gas Emission:** This is defined as the greenhouse gas emission occurring during the generation of electricity, heat or steam that is consumed by an organisation through external supply.
- **Other Indirect Greenhouse Gas Emission:** GHG emission from other sources that are not related to energy indirect GHG emission that result from GHG sources owned or controlled by other organisations because of an organisation's activities.
- **Mitigation Activity:** A specific activity or initiative implemented by an organisation to reduce or prevent direct or indirect greenhouse gas emissions, or to increase greenhouse gas removals, that is not managed as a greenhouse gas project.
- **Verification:** process for evaluating a statement of historical data and information to determine if the statement is materially correct and conforms to criteria
- **Uncertainty:** Parameter is related to the result of the calculation and is associated with the quantity determined; it displays the distribution of values.
- **Relevance:** Selection of GHG sources, sinks, reservoirs, data, and methodologies suitable for the intended user.
- **Completeness:** Includes all the relevant greenhouse gas emissions and removals.
- **Consistency:** Enables meaningful comparisons of GHG-related information over time.
- **Accuracy:** Reduction of systematic errors and uncertainties to the extent possible.
- **Transparency:** Disclosure of sufficient and appropriate GHG-related information to enable intended users to make decisions confidently.
- **Equity Sharing:** The organization is responsible for all parts of GHG emissions and/or removals from relevant facilities.
- **Tier 1:** Internationally accepted default standards, data, or factors.
- **Tier 2:** National or local standards, data, or factors.
- **Tier 3:** Standards, data, or factors calculated for a specific project or situation.

3. REPORT INFORMATION

3. 1. ORGANIZATION THAT OWNS THE REPORT

- **Organization Name:** NATUREL HOLDING A.Ş
- **Address:** Ofisler Bölgesi, Levazım Mah, Levent, Koru Sok. Zorlu Center K: T1 D:144, 34340 Beşiktaş/İstanbul
- **Phone:** +90 212 211 06 00

3.2 ORGANIZATION PREPARING THE REPORT

- **Organization Name:** SUSTAINABLE FUTURE PROJECT AND CONSULTANCY SERVICES LTD STI
- **Address:** No:8/140 Parima Zeytinburnu/İSTANBUL
- **Phone:** 0212 741 54 94

This report has been prepared by Sustainable Future Project and Consultancy Services LTD ŞTİ. The full or partial reproduction of this report without the written consent of the company official is not permitted. Reports without signatures are considered invalid.

Table 1 Report Authors

Report Authors
Elif İrem ERCAN (Sustainability Director)
Firdevs Emine Sezer (Optimization and Innovation Executive)

4. GENERAL INFORMATION

4.1. PURPOSE AND SCOPE

The purpose of this report is to fulfil the requirements for the calculation and reporting of greenhouse gas (GHG) emissions and removals at the establishment level in accordance with ISO 14064-1:2018 standard for all activities and services carried out within Naturel Yenilenebilir Enerji Ticaret A.Ş., Esenboga Elektrikboğa Elektrik Üretim A.Ş. and Margün Enerji Üretim Sanayi ve Ticaret A.Ş. within NATUREL HOLDİNG A.Ş. the three climate technology subsidiaries of Naturel Holding, publicly listed in BIST.

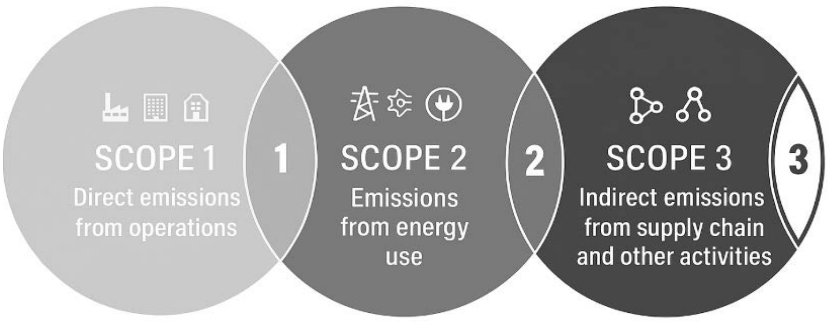

Figure 2 Greenhouse Gas Emission Scopes

4.2. POLICIES AND STRATEGIES

- Determination of activities and equipment that may cause greenhouse gases,
- Determining the environmental impacts of activities that may cause greenhouse gases,

- Reducing greenhouse gas emissions by controlling the effects of greenhouse gases and ensuring efficient use of greenhouse gas resources,
- Preferring environmentally friendly products with low carbon emissions in the vehicles and equipment used during our activities,
- Supporting renewable energy sources,
- Increasing the awareness level of internal and external stakeholders via trainings and audits within a continuous improvement framework to reduce energy and natural resource consumption for a sustainable environment,
- Developing projects to reduce or prevent greenhouse gas emissions.

4.3. TARGET AUDIENCE OF THE REPORT

The target audience of the Greenhouse Gas Inventory Report is NATUREL HOLDING management and employees. The GHG inventory report may also be:

- Shared upon request of official institutions.
- Published on corporate website for suppliers and customers after verification.
- Used as a data source for sustainability reports upon request.

4.4. PERSON RESPONSIBLE FOR THE REPORT

The person responsible for collecting the activity data used in the calculation of Greenhouse Gas Emissions and ensuring the coordination between the relevant units is Elçin Köse.

Contact Information;

Phone: +90 212 211 06 00

E-Mail: elcin.kose@naturelenerji.com.tr

4.5. REPORTING FREQUENCY AND VALIDITY PERIOD

This inventory report assumes that the greenhouse gas inventory covers a 12-month period without interruption.

Inventory Period: 01.01.2024-31.12.2024

4.6. FORMAT OF THE REPORT

This inventory report was prepared for NATUREL HOLDING based on ISO 14064-1:2018 (Greenhouse Gases - Part 1: Guidance on the Calculation and Reporting of Greenhouse Gas Emissions and Removals at Organisation Level) standards.

4.7. ORGANIZATIONAL BOUNDARIES

4.7.1. About NATUREL HOLDING

Naturel Holding is a climate technologies holding operating with its subsidiaries in renewable energy generation and EPC service provision. The Holding invests in innovative climate technologies predominantly with its three main subsidiaries: Naturel Enerji, Esenboga Elektrik and Margun Enerji, which are publicly listed in BIST.

Naturel Enerji, founded in 2009, is a climate technology company operating in the renewable energy sector, aiming to produce clean and environmentally friendly electricity entirely from renewable energy sources. In addition to the installation, operation, and trade of electricity generated by power plants, the company also manages the project development and installation processes of ground-mounted and hybrid solar power plants for both its customers and its own investments.

Naturel Enerji operates with the vision of being a reliable global business partner that contributes to sustainable growth in the renewable energy sector by providing high-quality services and solutions. Through its subsidiaries and indirect subsidiaries, Naturel Enerji offers a wide range of services in the energy sector. In this context, Naturel Enerji's subsidiary, Esenboga Elektrikboğa Elektrik Üretim A.Ş. (Esenboga Elektrikboğa Elektrik), provides rooftop solar energy system (SES) project development and turnkey installation services for industrial facilities. Additionally, its indirect subsidiary, Margün Enerji Üretim Sanayi ve Ticaret A.Ş. (Margün Enerji), provides solar energy system (SES) project development and turnkey installation services in the international arena. Naturel Enerji's indirect subsidiary, Angora Elektrik A.Ş., assumes the operation and maintenance responsibilities for all solar power plants within the group. Additionally, it offers these specialized services to investors outside the group.

In this report, Natural Enerji will be referred to as NATUREL ENERJİ, Esenboga Elektrikboğa Elektrik as ESENBOGA ELEKTRİK, and Margün Enerji as MARGUN ENERJİ.

4.7.2. Boundaries of The Organization

The scope of this report includes operations and activities of Naturel Holding climate technology subsidiary, Naturel Enerji and its direct and indirect subsidiaries Esenboga Elektrik and Margun Enerji.

Naturel Enerji	**Esenboga Elektrik**	**Margun Enerji**
Provision of project development, EPC services, O&M services for land type solar energy systems in domestic market	Provision of project development, EPC services for rooftop solar energy systems in domestic market	Renewable energy generation in domestic market. Provision of project development, EPC services, O&M services in international markets
		

Figure 3 NATUREL HOLDING

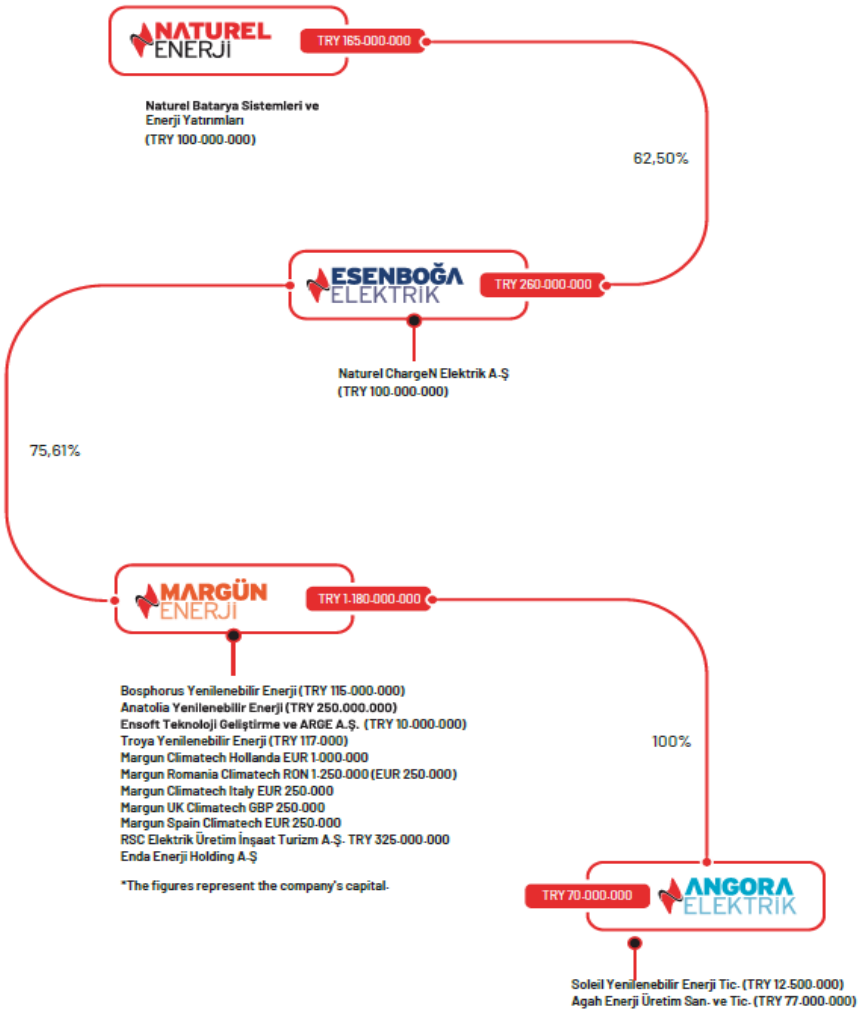

Figure 4 Direct and Indirect Subsidiaries

Addresses of the Naturel Enerji's subsidiaries are given below.

- Kızılırmak Mahallesi, 1450 Sokak ATM Plaza, No: 1 / 67 Blok, Kat: 14 Çukurambar, Çankaya/Ankara.
- Kızılırmak Mahallesi, 1450 Sokak ATM Plaza, No: 1 / 68 Blok, Kat: 14 Çukurambar/Ankara
- Zorlu Center Levazım Mahallesi, Vadi Caddesi No: 2 Ofisler Bölgesi T1 No: 144 Beşiktaş/Istanbul
- Zorlu Center Levazım Mahallesi, Vadi Caddesi No: 2 Ofisler Bölgesi T1 No: 145 Beşiktaş/Istanbul

The addresses of Margun Enerji's solar power plants are given below.

- Avşarönü, 109th Island, Parcels 606, 608, and 609, Muğla/Milas
- Yeşiltepe, Block 3298, Parcel 38, Ankara/Akyurt
- Teberik, Aşağı Kıran Area, Block 3727, Parcel 1, Ankara/Akyurt
- Karacalar, Block 3544, Parcels 26-27, Ankara/Akyurt
- Karacalar , Block 3544, Parcel 21, Ankara/Akyurt
- Teberik , Aşağı Kıran Area, Block 3724, Parcel 92, Ankara/Akyurt
- Kapaklı, Arpalık Uzunoğlu Area, Block 204, Parcel 47, Ankara/Çubuk
- Pazar, Kavuncu Çambaşı Area, Block 228, Parcel 41, Ankara/Kızılcahamam
- Çalta , Block 120, Parcel 3, Ankara/Kazan

- Kıranharmanı, 1st Block Parcels 140168-140169-140170, Ankara/Polatlı
- Aslanlıkarabuğra, Block 119, Parcels 1-2, Yozgat/Akdağmadeni
- Aslanlıkarabuğra , Block 117, Parcels 18, Yozgat/Akdağmadeni
- Aşağıkarakaya , Block 136, Parcels 45, Yozgat/Sorgun
- Çayırlık , Block 220, Parcels 2-3, Nevşehir/Center
- Yüreğil , Parcels 2979-2980, Afyonkarahisar/Dazkırı
- Zemzemiye , Block 0, Parcels 2648, Bilecik/Söğüt
- Bulca , Gedikaltı Area, Block 0, Parcels 1543 Afyonkarahisar/Sinanpaşa
- Bulca , Şeytanlık Area, Block 0, Parcel 1653, Afyonkarahisar/Sinanpaşa
- Bulca , Gedikaltı , Block 0, Parcel 1688, Afyonkarahisar/Sinanpaşa
- Bulca , Gedikaltı , Block 0, Parcel 1711, Afyonkarahisar/Sinanpaşa
- Paşakadın , Block 0, Parcel 2491, Eskişehir/Sivrihisar
- Yazıbelen , Block 45091, Parcel 5 - Block 45092, Parcel 15, Konya/Selçuklu
- Tursunlu , Block 0, Parcel 1252, Konya/Tuzlukçu
- Karyağdı , 286th Island, Parcel 5 - 286th Island, Parcel 7, Antalya/Elmalı
- Memişli , Parcel 16211/1-16212-9, Adana/Çukurova
- Memişli , Parcel 16212/40-46, Adana/Çukurova
- Avşar , Avşarönü Area, Block 109, Parcels 606, 608, and 609, Muğla/Milas

4.8. SYSTEM BOUNDARIES

The "Operational Control Approach" method was chosen to combine greenhouse gas emissions and removals in determining institutional limits. Any changes to the chosen joining method will be declared in the following year's greenhouse gas report.

4.9. ACTIVITY BOUNDARIES

ISO 14064-1:2018 Standard has been selected as a guide while determining the methods related to activity limits. Activity data used in greenhouse gas calculation are collected and controlled through data records. The data used is based on companies'declaration.

Direct Greenhouse Gas Emissions ‘Category 1’ Emissions, Indirect GHG emissions from imported energy ‘Category 2’ Emissions, Indirect GHG emissions from transportation ‘Category 3’ Emissions, Indirect GHG emissions from products used by an organization ‘Category 4’ Emissions, Indirect GHG emissions associated with the use of products from the organization ‘Category 5’ Emissions are included in the calculation.

4.9. SCENARIOS CREATED FOR CATEGORY 5 CALCULATIONS

Modules B1-B7 are considered as 0 because there are no activities such as the use, maintenance, replacement, renewal of NATUREL HOLDING product.

4.10. COMBUSTION OF BIOMASS

As biomass is not burned in the facility, there are no fossil CO_2 emissions resulting from the combustion of biomass.

Table 2 Biomass Resource Flow

SOURCE FLOW	CONSTANT
Biomass Consumption, *Originated from Use in Production*	-

4.11. GREENHOUSE GAS SOURCES AND SINKS NOT INCLUDED IN THE CALCULATION

The specific greenhouse gas emissions and sinks excluded in the organization are as follows:

Sinks

The organisation has no green areas or activities within its operational area capable of being used as sinks and included in the calculation for the reduction of greenhouse gas emissions. Depending on this situation, green areas in and around the enterprise are excluded from the scope.

4.12. BASE YEAR AND BASE YEAR GREENHOUSE GAS INVENTORY

The inventory of greenhouse gas emissions within the organization was calculated according to the requirements of TS ISO 14064-1: 2018 and covers the period 01.01.2024-31.12.2024. The inventory period from 1 January 2024 - 31 December 2024 has been updated as the organisation's 'Base Year'. The companies' 2022 and 2023 calculations have been provided, but the base year has been changed due to the expansion of the scope of activities.

4.13. GREENHOUSE GAS INFORMATION MANAGEMENT

4.13.1 GHG Information Management

The organization has implemented a GHG inventory that ensures the following:

a) Compliance with the principles of this document,
b) Consistency with the intended use of the GHG inventory,
c) Routine and consistent controls to ensure the accuracy and completeness of the inventory,
d) Identification and correction of errors and deficiencies,
e) Documentation and archiving of GHG inventory records and information management activities.

Documentation practices consider the following aspects:

a) Definition of roles and responsibilities of personnel involved in the development of the GHG inventory,
b) Determination and periodic review of organizational boundaries,
c) Identification and review of GHG sources and sinks,
d) Selection and review of calculation approaches and data—including those used in GHG models—consistent with the intended use of the inventory,
e) Review of calculation approaches to ensure consistency across multiple facilities,
f) Use, maintenance, and calibration of measurement equipment,
g) Development and maintenance of a robust data collection system,
h) Regular accuracy checks,
i) Periodic internal audits and technical reviews,
j) Periodic evaluation of opportunities to improve information management processes.

4.14. RECALCULATION OF GREENHOUSE GAS INVENTORY

The organization shall recalculate GHG emissions or removals if any of the following occur:

→ Changes in business boundaries,

→ Changes in the ownership and control information of greenhouse gas sources or sinks transferred into or outside the boundaries of the organization,
→ Changes in the GHG calculation methodology that result in significant differences in reported emissions or removals.

The recalculation process can be initiated by evaluating the relevant parties according to the following steps.

→ Review and update organizational and operational boundaries,
→ Review and redefine changes in direct, energy indirect, and other indirect GHG emissions,
→ Review existing GHG sources and sinks and define new ones, if necessary,
→ If there is a change in the calculation methodology, identify and apply the new methodology retroactively to previous calculations,
→ Review and, if necessary, update GHG activity data based on the new scope/methodology,
→ Recalculate uncertainty levels,
→ Revise the GHG report to reflect all changes,
→ If the report has been verified, submit the updated version to the verification body for re-verification.

In instances where new data cannot be applied retrospectively, current trend analyses may be used to infer past values, or current changes may be accepted retrospectively without recalculation.

5. CALCULATION METHODOLOGIES

Due to the absence of a direct measurement system for quantifying GHG emissions from the sources listed in the organizational GHG inventory, a calculation-based methodology has been adopted. Detailed guidance on these calculation methodologies can be found in the following sources: Greenhouse Gas Protocol (GHG Protocol), Intergovernmental Panel on Climate Change (IPCC) 2006 Guidelines, Department for Environment, Food and Rural Affairs (DEFRA), UK.

Table 3 Report Calculation Method

The formula used throughout the report is as follows: *References: IPCC, DEFRA, Ecoinvent* **Total CO_2e** = Activity Data x Appropriate Emission Factor

5.1. LEAK RATES, DENSITIES, NET CALORIFIC VALUES, AND GLOBAL WARMING POTENTIALS (GWPs)

GHG emissions primarily originate from stationary and/or mobile combustion processes. In addition, fugitive emissions from cooling systems and fire extinguishing equipment also contribute to the inventory.

Table 4 Fugitive Source Leak Rates

LEAKAGE WELDING FLOW	VALUE	REFERENCE
Cooling Systems	%1	#REF3
Electric water fountain	%1	#REF3
Refrigerator	%0,1	#REF3
Fire Extinguisher Tube	%4	#REF4

HFC gases used as refrigerants in air conditioners are greenhouse gases with high Global Warming Impact Potential (GWP). For this reason, fugitive emissions from cooling systems are included in the inventory.

Table 5 GWP Values

Greenhouse Gas Type	GWP, 100 *years*, CO_2e	REFERENCE
CO_2	1	#REF2
CH_4	27,9	#REF2
N_2O	273	#REF2
R600A	3	#REF2
R134A	1530	#REF2
R32	771	#REF2
R290	0,02	#REF2

5.2. SELECTION OF EMISSION FACTORS

International factors were used in the selection of emission factors in cases where national resources were not sufficient. DEFRA (2025), Coinvent Database, United States Environmental Protection Agency (EPA) (2022, 2024), IPCC Sixth Assessment Report (AR6) were used as international sources.

The emission factors used in the calculations are given in the table below.

Table 6 Emission Factors Used

Emission Source	Emission Factor	Reference
Category 1 Emissions		
Gasoline Consumption, Sourced from use in passenger cars	Gasoline, fuels, and by-products of petroleum refining: 1,1154 kg/2018 USD purchaser price	#REF1 EPA V1.1.1
Diesel Consumption, Sourced from use in passenger cars	Gasoline, fuels, and by-products of petroleum refining: 1,1154 kg/2018 USD purchaser price	#REF1 EPA V1.1.1
Category 2 Emissions		
Office Electricity Consumption, Based on Electricity Consumption	Electricity: 4,0294 kg/2018 USD purchaser price	#REF1 EPA V1.1.1
Electric Vehicle Charging Station, Based on Electricity Consumption	Electricity: 4,0294 kg/2018 USD purchaser price	#REF1 EPA V1.1.1
Charging Station, Based on Electricity Consumption	0,442 tonCO_2e/MWhV	#REF6
Heat energy for heating, emissions from imported energy sources in Ankara office	Heat and steam: 0,17529 kg CO_2e/kWh	#REF7
Heat energy for cooling, emissions from imported energy sources in Ankara office	Heat and steam: 0,17529 kg CO_2e/kWh	#REF7
Heat energy for heating, emissions from imported energy sources in Istanbul office	Heat and steam: 0,17529 kg CO_2e/kWh	#REF7
Heat energy for cooling, emissions from imported energy sources in Istanbul office	Heat and steam: 0,17529 kg CO_2e/kWh	#REF7
Category 3 Emissions		
Transportation by diesel vehicle, Employees Commuting	Business travel- land, Avarege Car, Diesel: 0,17304 kg CO_2e/km	#REF7
Transportation by gasoline vehicle, Employees Commuting	Business travel- land, Avarege Car, Petrol: 0,16272 kg CO_2e/km	#REF7

Emission Source	Emission Factor	Reference
Transportation by electric vehicle, Employees Commuting	Business travel- land, Avarege Car, Battery Electric Vehicle: 0,04047 kg CO_2e/km	#REF7
Transportation by vehicle with unknown fuel type, Employees Commuting	Business travel- land,Avarege Car, Unknown: 0,16725 kg CO_2e/km	#REF7
Transportation by taxi, Employees Commuting	Business travel- land, Regular taxi: 0,20806 kg CO_2e/km	#REF7
Transportation by bus, Employees Commuting	Business travel- land, Average local bus: 0,10385 kg CO_2e /passenger.km	#REF7
Transportation by tram, Employees Commuting	Business travel- land, Light rail and tram: 0,0286 kg CO_2e /passenger.km	#REF7
Transportation by metro, Employees Commuting	Business travel- land, London Underground: 0,0278 kg CO_2e /passenger.km	#REF7
Transportation by metrobus, Employees Commuting	Business travel- land,Light rail and tram: 0,0286 kg CO_2e /passenger.km	#REF7
Transportation by minibus, Employees Commuting	Business travel- land,Large car: 0,21007 kg CO_2e/ km	#REF7
Business travel by taxi, Emissions from business travel	Taxi Service: 0,5603967 kg CO_2e/2022 USD, purchaser price	#REF5 EPA V1.3
Business travel abroad, Emissions from business travel	All Other Travel Arrangement and Reservation Services: 0,0847138 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Business travel by plane, Emissions from business travel	Scheduled Passenger Air Transportation: 0,6425471 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Accommodation, Emissions from business travel	All Other Traveler Accommodation: 0,1427023 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Purchasing goods, Emissions from purchased goods	All Other Miscellaneous Electrical Equipment and Component Manufacturing: 0,12411924 kg CO_2e/2022 USD purchaser price Iron and Steel Forging: 0,4848077 kg CO_2e/2022 USD purchaser price Current-Carrying Wiring Device Manufacturing: 0,1248112 kg CO_2e/2022 USD purchaser price Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers: 0,07983523 kg CO_2e/2022 USD purchaser price Power, Distribution, and Specialty Transformer Manufacturing: 0,1306285 kg CO_2e/2022 USD purchaser price Industrial Machinery and Equipment Merchant Wholesalers: 0,1101448 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3

Emission Source	Emission Factor	Reference
	Prefabricated Metal Building and Component Manufacturing: 0,2592258 kg CO_2e/2022 USD purchaser price Stationery Product Manufacturing: 0,2943272 kg CO_2e/2022 USD purchaser price Other Clothing Stores: 0,12411924 kg CO_2e/2022 USD purchaser price Other Professional Equipment and Supplies Merchant Wholesalers: 0,07133598 kg CO_2e/2022 USD purchaser price	
Water consumption	Water Supply and Irrigation Systems: 0,578775 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Purchasing capital goods, Emissions from Capital Goods	Automobile and Other Motor Vehicle Merchant Wholesalers: 0,1120633 kg CO_2e/2022 USD purchaser price Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance: 0,1022784 kg CO_2e/2022 USD purchaser price Electronic Computer Manufacturing: 0,05678491 kg CO_2e/2022 USD purchaser price Office Furniture (except Wood) Manufacturing: 0,2343788 kg CO_2e/2022 USD purchaser price All Other Miscellaneous Electrical Equipment and Component Manufacturing: 0,12411924 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Wastewater treatment	Sewage Treatment Facilities: 0,578775 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3
Waste disposal	Waste disposal-open loop (paper, glass, plastic, metal): 4,68568 kg CO_2e/tonnes	#REF7
Purchasing of services, Emissions from service usage	All Other Professional, Scientific, and Technical Services: 0,0785894 kg CO_2e/2022 USD purchaser price Convention and Trade Show Organizers: 0,1228616 kg CO_2e/2022 USD purchaser price Passenger Car Rental: 0,1082559 kg CO_2e/2022 USD purchaser price Other Scientific and Technical Consulting Services: 0,0876476 kg CO_2e/2022 USD purchaser price Lessors of Residential Buildings and Dwellings: 0,03260755 kg CO_2e/2022 USD purchaser price Caterers: 0,1297456 kg CO_2e/2022 USD purchaser price Environmental Consulting Services: 0,0876476 kg CO_2e/2022 USD purchaser price	#REF5 EPA V1.3

Emission Source	Emission Factor	Reference
	Janitorial Services: 0,1760848 kg CO_2e/2022 USD purchaser price Appliance Repair and Maintenance: 0,1079053 Offices of Lawyers: 0,04023735 kg CO_2e/2022 USD purchaser price All Other Information Services:0,0632752 kg CO_2e/2022 USD purchaser price Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing: 0,1079335 kg CO_2e/2022 USD purchaser price Offices of Other Holding Companies: 0,08221737 kg CO_2e/2022 USD purchaser price All Other Insurance Related Activities:0,02835031 kg CO_2e/2022 USD purchaser price Scheduled Passenger Air Transportation:0,6425471 kg CO_2e/2022 USD purchaser price Security Guards and Patrol Services: 0,07244737 kg CO_2e/2022 USD purchaser price Stationery Product Manufacturing: 0,2943272 kg CO_2e/2022 USD purchaser price General Freight Trucking, Local: 0,58254 kg CO_2e/2022 USD purchaser price Other Building Equipment Contractors: 0,2132737 kg CO_2e/2022 USD purchaser price Convention and Trade Show Organizers: 0,1228616 kg CO_2e/2022 USD purchaser price	

6. NATUREL ENERJİ CALCULATION RESULTS

6.1. CALCULATION RESULTS BY CATEGORIES

6.1.1. CATEGORY 1 EMISSIONS

As Naturel Enerji offices receive heating and cooling energy from the plaza where they are located, natural gas consumption is not considered to be covered under the definition of stationary combustion. The distribution of the calculation results according to the resource flows, the consumption data and the percentages in the calculation are given below, respectively:

Table 7 NATUREL ENERJİ Category 1 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Gasoline Consumption, Sourced from use in passenger cars	₺2.271.846,60	TL	**77,28**
Diesel Consumption, Sourced from use in passenger cars	₺262.600,00	TL	**8,93**
Fire Extinguishers, Fugitive Emissions from CO2 Gas in Ankara office	0,00926	tonnes	**0,00037**
Fire Extinguishers, Fugitive Emissions from CO2 Gas in İstanbul office	0,00388	tonnes	**0,00016**
Refrigerators, Fugitive Emissions from R600A Gas in Ankara office	0,00005	tonnes	**1,58E-07**
Refrigerators, Fugitive Emissions from R134A Gas in Ankara office	0,00004	tonnes	**0,00006**
Refrigerators, Fugitive Emissions from R32 Gas in Ankara office	0,00011	tonnes	**0,00008**
Electric water fountain, Fugitive Emissions from R134A Gas in Ankara office	0,00001	tonnes	**0,00018**
Refrigerators, Fugitive Emissions from R600A Gas in İstanbul office	0,00003	tonnes	**7,75E-08**
Air Conditioners, Fugitive Emissions from R290A Gas in İstanbul office	0,00005	tonnes	**9,91E-09**
Air Conditioners, Fugitive Emissions from R32 Gas in İstanbul office	0,00011	tonnes	**0,00083**
Electric water fountain, Fugitive Emissions from R134A Gas in İstanbul office	0,00001	tonnes	**0,00011**

Table 8 NATUREL ENERJİ Category 1 Emissions Summary

CATEGORY 1	Emission (tCO_2e)	%
Direct emissions from stationary combustion	0,00	0%
Direct emissions from mobile combustion	86,207	100,0%
Direct emissions from industrial processes	0,00	0,0%
Direct fugitive emissions from the release of GHGs in anthropogenic systems	0,002	0,0%
Direct emissions from land use, land-use change, and forestry	0,00	0,0%
Total Emissions (tCO_2e)	**86,209**	

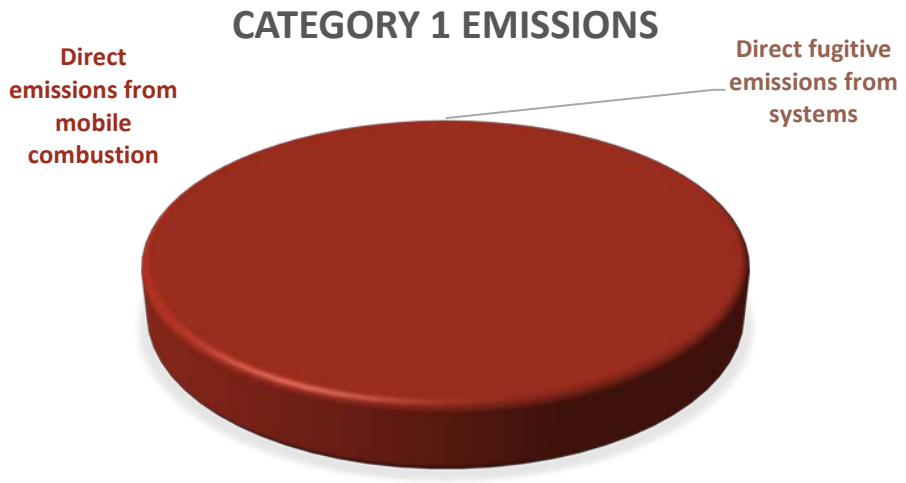

Figure 5 NATUREL ENERJİ Category 1 Emissions

6.1.2. CATEGORY 2 EMISSIONS

This category includes emissions resulting from the consumption of purchased electricity and energy. The heat energy consumption of the Ankara and Istanbul offices is used for human reasons only, and it has been calculated in accordance with the number of employees at Naturel Enerji, Esenboga Elektrik, and Margun Enerji. The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$.

The result table is given below:

Table 9 NATUREL ENERJİ Category 2 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Office Electricity Consumption, Based on Electricity Consumption	119.543,46	TL	**14,69**
Electric Vehicle Charging Station, Based on Electricity Consumption	449.551,88	TL	**55,24**
Charging Station, Based on Electricity Consumption	9,99	MWh	**4,42**
Heat energy for heating, emissions from imported energy sources in Ankara office	10.860,58	kWh	**1,90**
Heat energy for cooling, emissions from imported energy sources in Ankara office	9.906,83	kWh	**1,74**
Heat energy for heating, emissions from imported energy sources in Istanbul office	7.273,08	kWh	**1,27**
Heat energy for cooling, emissions from imported energy sources in Istanbul office	4.788,70	kWh	**0,84**

Table 10 NATUREL ENERJİ Category 2 Emissions Summary

CATEGORY 2	Emission (tCO_2e)	%
Indirect emissions from imported electricity	74,34	86%
Indirect emissions from imported energy	5,75	6,7%
Total Emissions (tCO_2e)	**80,10**	

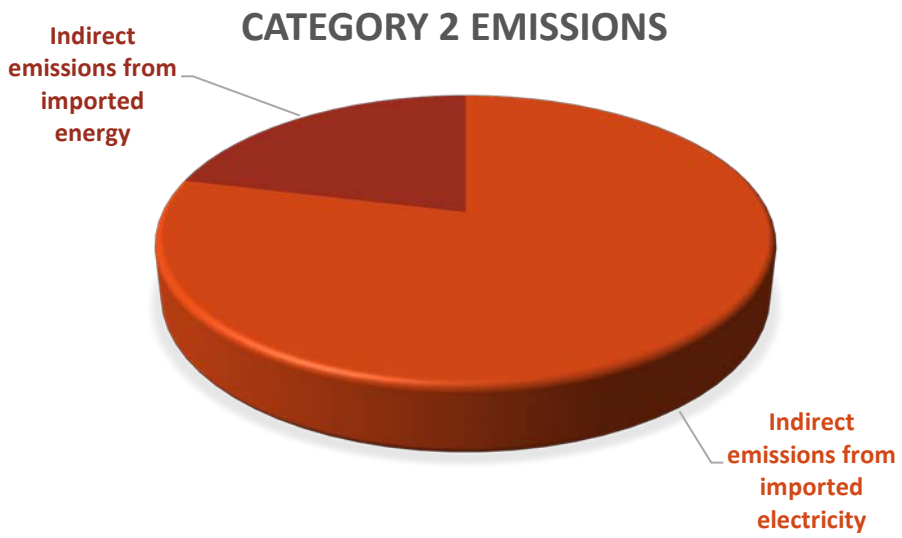

Figure 6 NATUREL ENERJİ Category 2 Emissions

6.1.3. CATEGORY 3 EMISSIONS

The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$. The distribution of the calculation results of Category 3 emissions according to source streams and their percentages in the calculation are given below, respectively:

Table 11 NATUREL ENERJİ Category 3 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Transportation by diesel vehicle, Employees Commuting	11.228	km	**1,94**
Transportation by gasoline vehicle, Employees Commuting	25.128	km	**4,09**
Transportation by electric vehicle, Employees Commuting	14.003	km	**0,57**
Transportation by vehicle with unknown fuel type, Employees Commuting	6.999	km	**1,17**
Transportation by taxi, Employees Commuting	2.404	km	**0,50**
Transportation by bus, Employees Commuting	11.982	km	**1,24**
Transportation by tram, Employees Commuting	1.153	km	**0,03**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Transportation by metro, Employees Commuting	13.145	km	**0,37**
Transportation by metrobus, Employees Commuting	6.741	km	**0,19**
Transportation by minibus, Employees Commuting	1.861	km	**0,39**
Business travel by taxi, Emissions from business travel	₺118.406,00	TL	**2,02**
Business travel abroad, Emissions from business travel	₺2.377.836,16	TL	**6,14**
Business travel by plane, Emissions from business travel	₺6.782.585,65	TL	**132,90**
Accommodation, Emissions from business travel	₺4.418.373,19	TL	**19,23**

Table 12 NATUREL ENERJİ Category 3 Emissions Summary

CATEGORY 3	Emission (tCO_2e)	%
Upstream emissions from raw material transportation	0,00	0%
Downstream emissions from product transportation	0,00	0,0%
Indirect emissions from employee commuting	10,50	6,1%
Indirect emissions from customer and visitor transportation	0,00	0,0%
Indirect emissions from business travel	160,30	93,9%
Total Emissions (tCO_2e)	**170,79**	

6.1.4. CATEGORY 4 EMISSIONS

During the calculation of Category 4 emissions, raw materials and consumables are included in the products purchased. Water consumption and solid/liquid waste have been calculated in accordance with the number of employees. The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$. The distribution of the calculation results according to the source flows and the percentages in the calculation are given below, respectively.

Table 13 NATUREL ENERJİ Category 4 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Panel purchase, emissions from purchased goods	₺163.284.345,71	TL	**618,04**
Steel Construction purchase, emissions from purchased goods	₺50.431.680,86	TL	**745,60**
Cable purchase, emissions from purchased goods	₺58.848.041,83	TL	**223,98**
Inverter purchase, emissions from purchased goods	₺2.147.661,96	TL	**5,23**
Transformer purchase, emissions from purchased goods	₺21.820.623,19	TL	**86,92**

Technical Materials - Equipment purchase, emissions from purchased goods	₺18.531.656,66	TL	**70,14**
AC Panel - AD Panel - AC Main Panel purchase, emissions from purchased goods	₺1.989.721,50	TL	**6,68**
SCADA purchase, emissions from purchased goods	₺303.632,04	TL	**1,02**
Autoproducer Cell purchase, emissions from purchased goods	₺557.725,73	TL	**1,87**
Purchase of Disconnector Input Cell, emissions from purchased goods	₺557.725,73	TL	**1,87**
Purchase of Measurement Cell, emissions from purchased goods	₺291.733,46	TL	**0,98**
Purchase of Rectifier, emissions from purchased goods	₺57.917,68	TL	**0,19**
Purchase of Prefabricated Pavilion, emissions from purchased goods	₺2.127.938,18	TL	**16,82**
Purchase of OG CELL, emissions from purchased goods	₺602.363,87	TL	**2,02**
Purchase of grounding system, emissions from purchased goods	₺409.678,87	TL	**1,38**
Purchase of data logger, emissions from purchased goods	₺77.912,12	TL	**0,26**
Purchase of steel transport systems, emissions from purchased goods	₺2.561.636,98	TL	**37,87**
Purchase of paper (all stationery expenses), emissions from purchased goods	₺472.446,94	TL	**4,24**
Gasoline Vehicle Purchases, Emissions from Capital Goods	₺25.997.320,32	TL	**88,84**
Diesel Vehicle Purchases, Emissions from Capital Goods	₺1.597.887,70	TL	**5,46**
Screen Purchases, Emissions from Capital Goods	₺98.221,37	TL	**0,31**
Electric Vehicle Purchases, Emissions from Capital Goods	₺44.849.449,61	TL	**153,27**
Hybrid Vehicle Purchases, Emissions from Capital Goods	₺2.699.694,40	TL	**9,23**
Laptop Purchases, Emissions from Capital Goods	₺881.880,64	TL	**1,53**
Printer Purchases, Emissions from Capital Goods	₺108.554,04	TL	**0,34**
Water consumption, Emissions from office water consumption	₺18.918,56	TL	**0,33**
Wastewater Disposal, Emissions from the treatment of liquid waste	₺18.918,56	TL	**0,33**
Disposal of paper waste, emissions from disposal of solid waste at the Ankara Office	0,07	Tonnes	**0,0003**
Disposal of glass waste, emissions from disposal of solid waste at the Ankara Office	0,19	Tonnes	**0,0009**
Disposal of metal waste, emissions from disposal of solid waste at the Ankara Office	0,01	Tonnes	**0,0001**

Disposal of plastic waste, emissions from the disposal of solid waste at the Ankara Office	0,03	Tonnes	**0,0001**
Disposal of paper waste, emissions from disposal of solid waste at the Istanbul Office	0,02	Tonnes	**0,0001**
Disposal of glass waste, emissions from disposal of solid waste at the Istanbul Office	0,05	Tonnes	**0,0002**
Disposal of metal waste, emissions from disposal of solid waste at the Istanbul Office	0,00	Tonnes	**2,96E-06**
Disposal of plastic waste, emissions from disposal of solid waste at the Istanbul Office	0,01	Tonnes	**2,73E-05**
Construction-Installation Services, Emissions from service use	₺46.445.508,62	TL	**111,31**
Exhibition Services, Emissions from service use	₺25.689.519,97	TL	**96,25**
Services Purchased Abroad, Emissions from service use	₺664.768,41	TL	**1,59**
Vehicle Rental Services, Emissions from service use	₺1.283.288,72	TL	**4,24**
Gifts, meals, hospitality services (gift cards, chocolate, gift products, meals, etc.), Emissions from service use	₺8.451.023,72	TL	**22,59**
Real estate rental services, Emissions from service use	₺3.406.968,62	TL	**3,39**
Catering services, Emissions from service use	₺10.597.709,33	TL	**41,93**
Sustainability Service, Emissions from service usage	₺1.009.712,00	TL	**2,70**
Cleaning Service, Emissions from service usage	₺1.529.719,33	TL	**8,21**

Table 14 NATUREL ENERJİ Category 4 Emissions Summary

CATEGORY 4	Emission (tCO_2e)	%
Indirect emissions from purchased goods	1.825,46	77%
Indirect emissions from capital goods	258,97	10,9%
Indirect emissions from solid and liquid waste disposal	0,34	0,0%
Indirect emissions from services utilized	0,00	0,0%
Total Emissions (tCO_2e)	**2.376,98**	

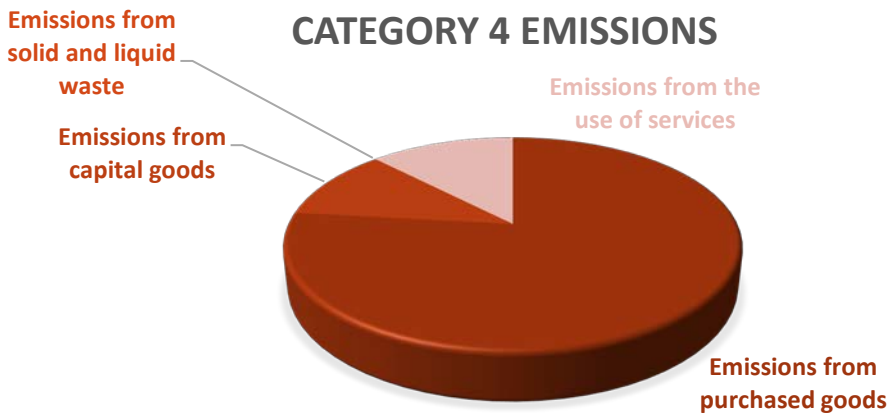

Figure 7 NATUREL ENERJİ Category 4 Emissions

6.1.5. CATEGORY 5 EMISSIONS

The companies provide EPC services. This signifies that there is no associated emissions for its products.

6.2. INVENTORY DATA SOURCE, INTERPRETATION OF RESULTS, AND INVENTORY SUMMARY

The results of calculations for all categories are presented in the table below:

Table 15 NATUREL ENERJİ Emissions in All Categories and Their Distribution

CATEGORIES	Emissions (tCO_2e)	Percentage Distribution
CATEGORY 1	86,21	3,18%
CATEGORY 2	80,10	2,95%
CATEGORY 3	170,79	6,29%
CATEGORY 4	2.376,98	87,58%
CATEGORY 5	0,00	0,00%
CATEGORY 6	0,00	0,00%
SUM	**2.714,08**	

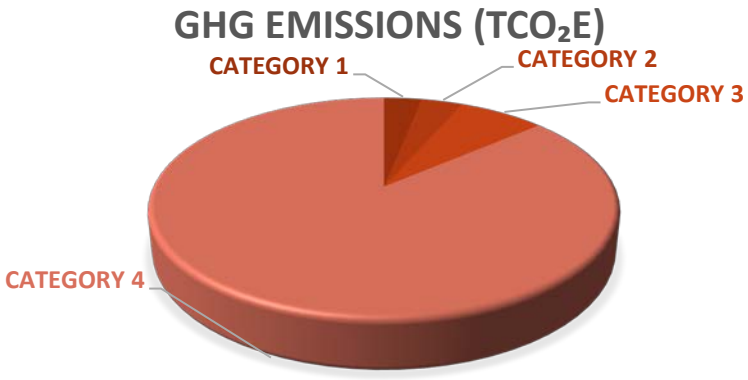

Figure 8 NATUREL ENERJİ Percentage distribution of greenhouse gas emission categories

Table 16 NATUREL ENERJİ Emissions and Distribution by Scope

SCOPES		EMISSION (tCO_2e)
SCOPE 1		86,21
SCOPE 2		80,10
SCOPE 3		2.547,77
	Location Based	2.714,08
	Market Based	2.714,08

Table 17 NATUREL ENERJİ GHG Emissions

Scopes	Emissions
Scope 1	
1: Stationary Combustion Emissions	0,00
2: Mobile Combustion Emissions	86,21
3: Fugitive Emissions	0,00
Scope 2	
1: Emissions from Purchased Electricity	80,10
Scope 3	
1: Purchased Goods and Services	2.117,67
2: Capital Goods	258,97
3: Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	0,00
4: Upstream Transportation and Distribution	0,00
5: Waste Generated in Operation	0,34
6: Business Travel	160,30
7: Employee Commuting	10
8: Upstream Leased Assets	0
9: Downstream Transportation and Distribution	0
10: Processing of Sold Products	0
11: Use of Sold Products	0
12: End-of-Life Treatment of Sold Products	0
13: Downstream Leased Asset	0
14: Franchises	0
15: Investments	0
TOTAL	2.714,08

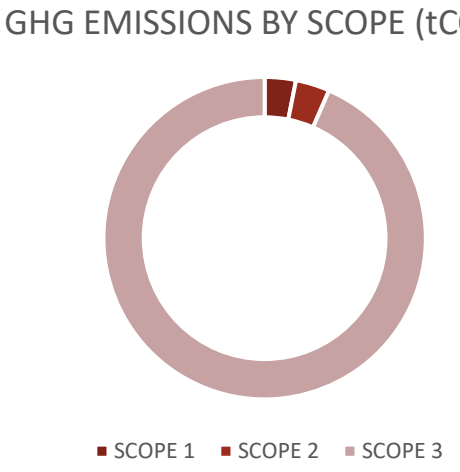

Figure 9 NATUREL ENERJİ Distribution of greenhouse gas emission scopes

6.3. UNCERTAINTY ANALYSIS

Uncertainty calculations were performed using the Pedigree Matrix approach, resulting in an overall uncertainty level of 12%. One of the key reasons for this value is the exclusive use of Tier 1 emission factors, except for electricity consumption, for which Tier 2 factors were applied. Additionally, some activity data could not be obtained through direct measurement, which further contributes to the uncertainty. All greenhouse gas sources were included in the calculations.

7. ESENBOGA ELEKTRİK CALCULATION RESULT

7.1. CALCULATION RESULTS BY CATEGORIES

7.1.1. CATEGORY 1 EMISSIONS

As ESENBOGA ELEKTRİK offices receive heating and cooling energy from the plaza where they are located, natural gas consumption is not considered to be covered under the definition of stationary combustion. The distribution of the calculation results according to the resource flows, the consumption data and the percentages in the calculation are given below, respectively:

Table 18 ESENBOGA ELEKTRİK Category 1 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Gasoline Consumption, Source of use in passenger cars	₺111.396,46	TL	**3,79**
Fuel Consumption, Source of use in passenger cars	₺84.466,11	TL	**2,87**
Fire Extinguishers, Fugitive Emissions from CO2 Gas in Ankara office	0,001544	tonnes	**0,00006**
Fire Extinguishers, Fugitive Emissions from CO2 Gas in İstanbul office	0,000646	tonnes	**0,00003**
Refrigerators, Fugitive Emissions from R600A Gas in Ankara office	0,000009	tonnes	**2,63E-08**
Refrigerators, Fugitive Emissions from R134A Gas in Ankara office	0,000007	tonnes	**0,00001**
Refrigerators, Fugitive Emissions from R32 Gas in Ankara office	0,000018	tonnes	**0,00001**
Electric water fountain, Fugitive Emissions from R134A Gas in Ankara office	0,000002	tonnes	**0,00003**
Refrigerators, Fugitive Emissions from R600A Gas in İstanbul office	0,000004	tonnes	**1,29E-08**
Air Conditioners, Fugitive Emissions from R290A Gas in İstanbul office	0,000008	tonnes	**1,65E-09**
Air Conditioners, Fugitive Emissions from R32 Gas in İstanbul office	0,000018	tonnes	**0,00014**
Electric water fountain, Fugitive Emissions from R134A Gas in İstanbul office	0,000001	tonnes	**0,00002**

Table 19 ESENBOGA ELEKTRİK Category 1 Emissions Summary

CATEGORY 1	Emission (tCO_2e)	%
Direct emissions from stationary combustion	0,00	0%
Direct emissions from mobile combustion	6,66	100,0%
Direct emissions from industrial processes	0,00	0,0%
Direct fugitive emissions from systems	0,0003	0,0%
Direct emissions from land use, land-use change, and forestry	0,00	0,0%
Total Emissions (tCO_2e)	**6,662**	

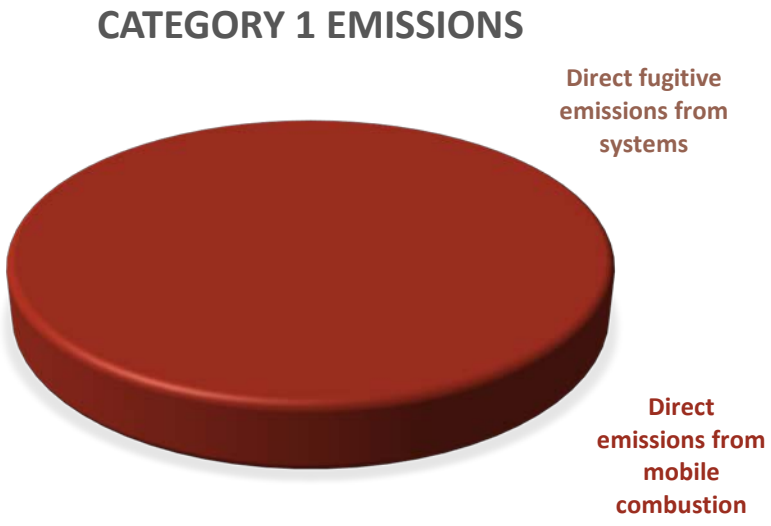

Figure 10 ESENBOGA ELEKTRİK Category 1 Emissions

7.1.2. CATEGORY 2 EMISSIONS

This category includes emissions resulting from the consumption of purchased electricity and energy. The heat energy consumption of the Ankara and Istanbul offices is used for human reasons only, and it has been calculated in accordance with the number of employees at Naturel Enerji, Esenboga Elektrik, and Margun Enerji. The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$.

The result table is given below:

Table 20 ESENBOGA ELEKTRİK Category 2 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Office Electricity Consumption, Based on Electricity Consumption	₺543,60	TL	**0,07**
Electric Vehicle Charging Station, Based on Electricity Consumption	₺4.722,77	TL	**0,58**
Heat energy for heating, emissions from imported energy sources in Ankara office	1.810,10	kWh	**0,32**
Heat energy for cooling, emissions from imported energy sources in Ankara office	1.651,14	kWh	**0,29**
Heat energy for heating, emissions from imported energy sources in Istanbul office	1.212,18	kWh	**0,21**
Heat energy for cooling, emissions from imported energy sources in Istanbul office	798,12	kWh	**0,14**

Table 21 ESENBOGA ELEKTRİK Category 2 Emissions Summary

CATEGORY 2	Emission (tCO_2e)	%
Indirect emissions from imported electricity	0,65	40%
Indirect emissions from imported energy	0,96	60%
Total Emissions (tCO_2e)	**1,61**	

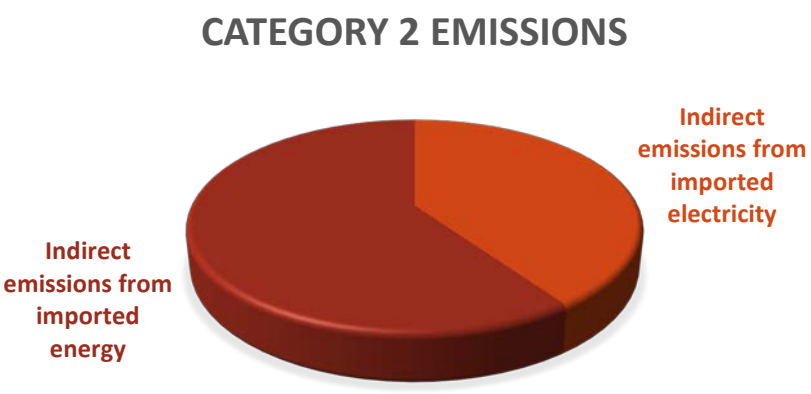

Figure 11 ESENBOGA ELEKTRİK Category 2 Emissions

7.1.3. CATEGORY 3 EMISSIONS

The distribution of the calculation results of Category 3 emissions according to source streams and their percentages in the calculation are given below, respectively:

Table 22 ESENBOGA ELEKTRİK Category 3 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Transportation by diesel vehicle, Employees Commuting	1.871	km	**0,32**
Transportation by gasoline vehicle, Employees Commuting	4.188	km	**0,68**
Transportation by electric vehicle, Employees Commuting	2.334	km	**0,09**
Transportation by vehicle with unknown fuel type, Employees Commuting	1.167	km	**0,20**
Transportation by taxi, Employees Commuting	401	km	**0,08**
Transportation by bus, Employees Commuting	1.997	km	**0,21**
Transportation by tram, Employees Commuting	192	km	**0,01**
Transportation by metro, Employees Commuting	2.191	km	**0,06**
Transportation by metrobus, Employees Commuting	1.123	km	**0,03**
Transportation by minibus, Employees Commuting	310	km	**0,07**
Business travel by plane, Emissions from business travel	₺17.292,84	TL	**0,34**
Accommodation, Emissions from business travel	₺84.300,00	TL	**0,37**

Table 23 ESENBOGA ELEKTRİK Category 3 Emissions Summary

CATEGORY 3	Emission (tCO_2e)	%
Upstream emissions from raw material transportation	0,00	0%
Downstream emissions from product transportation	0,00	0,0%
Indirect emissions from employee commuting	1,75	71,3%
Indirect emissions from customer and visitor transportation	0,00	0,0%
Indirect emissions from business travel	0,71	28,7%
Total Emissions (tCO_2e)	**2,45**	

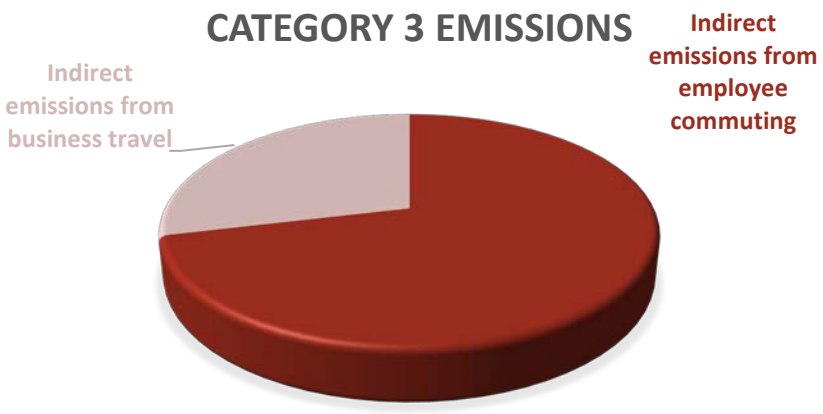

Figure 12 ESENBOGA ELEKTRİK Category 3 Emissions

7.1.4. CATEGORY 4 EMISSIONS

The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$.During the calculation of Category 4 emissions, raw materials and consumables are included in the products purchased. The distribution of the calculation results according to the source flows and the percentages in the calculation are given below, respectively.

Table 24 ESENBOGA ELEKTRİK Category 4 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Technical Materials - Equipment purchase, emissions from purchased goods	₺4.883,04	TL	**0,04**
Purchase of paper (all stationery expenses), emissions from purchased goods	₺116.621,54	TL	**0,44**
Furniture Purchases, Emissions from Capital Goods	₺2.800.439,34	TL	**20,02**
Water consumption, Emissions from office water consumption	₺3.153,09	TL	**0,06**
Wastewater Disposal, Emissions from the treatment of liquid waste	₺3.153,09	TL	**0,06**
Disposal of paper waste, emissions from disposal of solid waste at the Ankara Office	0,01	tonnes	**0,00005**

Disposal of glass waste, emissions from disposal of solid waste at the Ankara Office	0,03	tonnes	**0,00015**
Disposal of metal waste, emissions from disposal of solid waste at the Ankara Office	0,002	tonnes	**0,00001**
Disposal of plastic waste, emissions from the disposal of solid waste at the Ankara Office	0,00	tonnes	**0,00002**
Disposal of paper waste, emissions from disposal of solid waste at the Istanbul Office	0,00	tonnes	**0,00002**
Disposal of glass waste, emissions from disposal of solid waste at the Istanbul Office	0,01	tonnes	**0,00004**
Disposal of metal waste, emissions from disposal of solid waste at the Istanbul Office	0,0001	tonnes	**4,94E-07**
Disposal of plastic waste, emissions from disposal of solid waste at the Istanbul Office	0,001	tonnes	**4,55E-06**
Vehicle Rental Services, Emissions from service use	₺37.192,14	TL	**0,12**
Gifts, meals, hospitality services (gift cards, chocolate, gift products, meals, etc.), Emissions from service use	₺201.669,69	TL	**0,54**
Real estate rental services, Emissions from service use	₺589.759,80	TL	**0,59**
Sustainability Service, Emissions from service usage	₺1.038.662,00	TL	**2,78**
Cleaning Service, Emissions from service usage	₺30.986,43	TL	**0,17**

Table 25 ESENBOGA ELEKTRİK Category 4 Emissions Summary

CATEGORY 4	Emission (tCO_2e)	%
Indirect emissions from purchased goods	0,56	2%
Indirect emissions from capital goods	20,02	80,7%
Indirect emissions from solid and liquid waste disposal	0,06	0,2%
Indirect emissions from services utilized	0,00	0,0%
Total Emissions (tCO_2e)	**24,80**	

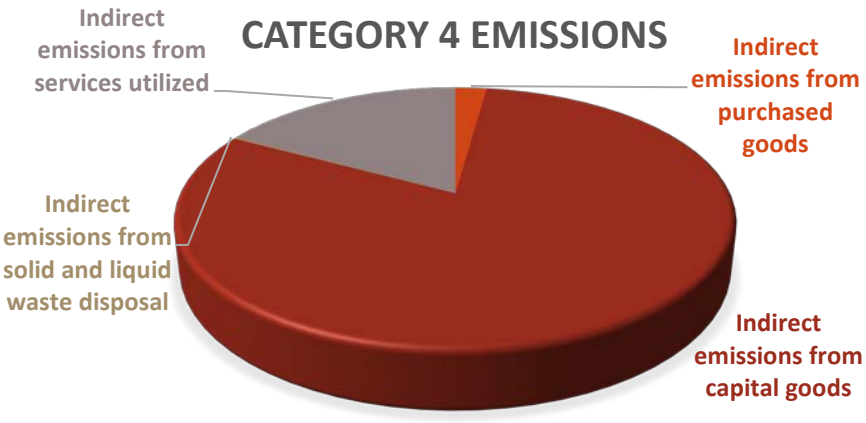

Figure 13 ESENBOGA ELEKTRİK Category 4 Emissions

7.1.5. CATEGORY 5 EMISSIONS

The company provides EPC services. This signifies that there is no associated emissions for its products.

7.2. INVENTORY DATA SOURCE, INTERPRETATION OF RESULTS, AND INVENTORY SUMMARY

The results of calculations for all categories are presented in the table below:

Table 26 ESENBOGA ELEKTRİK Emissions in All Categories and Their Distribution

CATEGORIES	Emissions (tCO_2e)	Percentage Distribution
CATEGORY 1	6,66	18,75%
CATEGORY 2	1,61	4,52%
CATEGORY 3	2,45	6,91%
CATEGORY 4	24,80	69,82%
CATEGORY 5	0,00	0,00%
CATEGORY 6	0,00	0,00%
SUM	**35,53**	

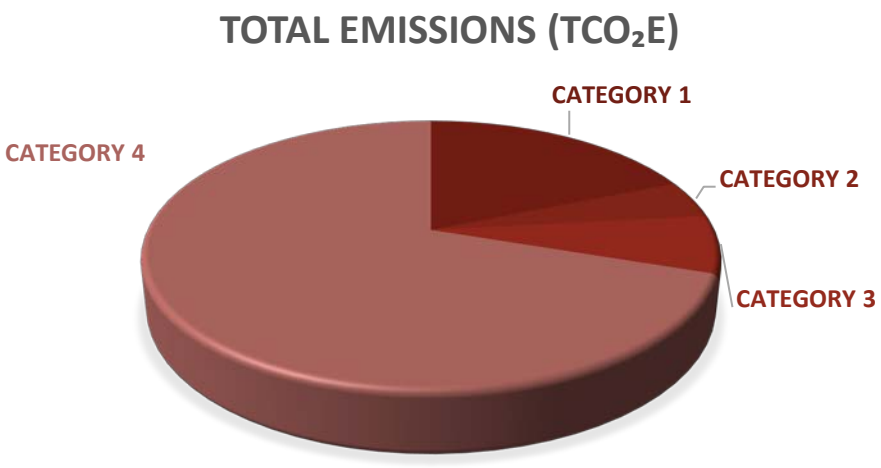

Figure 14 ESENBOGA ELEKTRİK Percentage distribution of greenhouse gas emission categories

Table 27 ESENBOGA ELEKTRİK Emissions and Distribution by Scope

SCOPES		EMISSION (tCO_2e)
SCOPE 1		6,66
SCOPE 2		1,61
SCOPE 3		27,26
	Location Based	35,53
	Market Based	35,53

Table 28 ESENBOGA ELEKTRİK GHG Emissions

Scopes	Emissions
Scope 1	
1: Stationary Combustion Emissions	0,00
2: Mobile Combustion Emissions	6,66
3: Fugitive Emissions	0,00
Scope 2	
1: Emissions from Purchased Electricity	1,61
Scope 3	
1: Purchased Goods and Services	4,73
2: Capital Goods	20,02
3: Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	0,00
4: Upstream Transportation and Distribution	0,00
5: Waste Generated in Operation	0,06
6: Business Travel	0,71
7: Employee Commuting	2
8: Upstream Leased Assets	0
9: Downstream Transportation and Distribution	0,00
10: Processing of Sold Products	0,00
11: Use of Sold Products	0,00
12: End-of-Life Treatment of Sold Products	0,00
13: Downstream Leased Asset	0
14: Franchises	0
15: Investments	0
TOTAL	35,53 tCO_2e

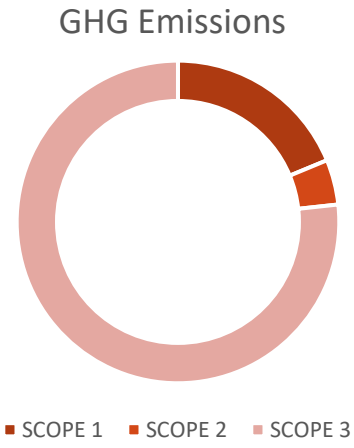

Figure 15 ESENBOGA ELEKTRİK Distribution of greenhouse gas emission scopes

7.3. UNCERTAINTY ANALYSIS

Uncertainty calculations were performed using the Pedigree Matrix approach, resulting in an overall uncertainty level of 17%. One of the key reasons for this value is the exclusive use of Tier 1 emission factors, except for electricity consumption, for which Tier 2 factors were applied. Additionally, some activity data could not be obtained through direct measurement, which further contributes to the uncertainty. All greenhouse gas sources were included in the calculations.

8. MARGUN ENERJİ CALCULATION RESULT

8.1. CALCULATION RESULTS BY CATEGORIES

8.1.1. CATEGORY 1 EMISSIONS

As MARGUN ENERJİ offices receive heating and cooling energy from the plaza where they are located, natural gas consumption is not considered to be covered under the definition of stationary combustion. The distribution of the calculation results according to the resource flows, the consumption data and the percentages in the calculation are given below, respectively:

Table 29 MARGUN ENERJİ Category 1 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Gasoline Consumption, Sourced from use in passenger cars	₺100.223,96	TL	**3,41**
Diesel Consumption, Sourced from use in passenger cars	₺130.323,57	TL	**4,43**
Fire Extinguishers, Fugitive Emissions from CO_2 Gas in Ankara office	0,03219	tonnes	**0,00129**
Fire Extinguishers, Fugitive Emissions from CO_2 Gas in İstanbul office	0,01348	tonnes	**0,00054**
Refrigerators, Fugitive Emissions from R600A Gas in Ankara office	0,00018	tonnes	**5,48E-07**
Refrigerators, Fugitive Emissions from R134A Gas in Ankara office	0,00015	tonnes	**0,00022**
Refrigerators, Fugitive Emissions from R32 Gas in Ankara office	0,00037	tonnes	**0,00029**
Electric water fountain, Fugitive Emissions from R134A Gas in Ankara office	0,00004	tonnes	**0,00064**
Refrigerators, Fugitive Emissions from R600A Gas in İstanbul office	0,00009	tonnes	**2,70E-07**
Air Conditioners, Fugitive Emissions from R290A Gas in İstanbul office	0,00017	tonnes	**3,44E-08**
Air Conditioners, Fugitive Emissions from R32 Gas in İstanbul office	0,00037	tonnes	**0,00289**
Electric water fountain, Fugitive Emissions from R134A Gas in İstanbul office	0,00002	tonnes	**0,00037**

Table 30 MARGUN ENERJİ Category 1 Emissions Summary

CATEGORY 1	Emission (tCO_2e)	%
Direct emissions from stationary combustion	0,00	0%
Direct emissions from mobile combustion	7,84	99,9%
Direct emissions from industrial processes	0,00	0,0%
Direct fugitive emissions from the release of GHGs in anthropogenic systems	0,01	0,1%
Direct emissions from land use, land-use change, and forestry	0,00	0,0%
Total Emissions (tCO_2e)	**7,850**	

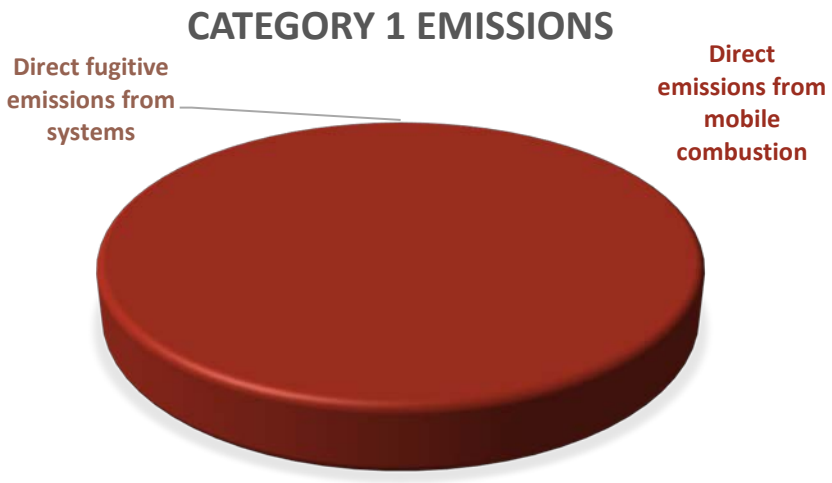

Figure 16 MARGUN ENERJİ Category 1 Emissions

8.1.2. CATEGORY 2 EMISSIONS

This category includes emissions resulting from the consumption of purchased electricity and energy. The heat energy consumption of the Ankara and Istanbul offices is used for human reasons only, and it has been calculated in accordance with the number of employees at Naturel Enerji, Esenboga Elektrik, and Margun Enerji. The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$.

The result table is given below:

Table 31 MARGUN ENERJİ Category 2 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Office Electricity Consumption, Based on Electricity Consumption	₺280.343,64	TL	**34,45**
MARGUN ENERJİ Power Plant Electricity Consumption, Based on Electricity Consumption	₺393.347,22	TL	**48,33**
AGAH Power Plant Electricity Consumption, Based on Electricity Consumption	₺1.106.898,44	TL	**136,01**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
ANATOLİA Power Plant Electricity Consumption, Based on Electricity Consumption	₺161.026,30	TL	**19,79**
BOSPHORUS Power Plant Electricity Consumption, Based on Electricity Consumption	₺1.867.935,84	TL	**229,53**
SOLEİL Power Plant Electricity Consumption, Based on Electricity Consumption	₺5.830.497,55	TL	**716,43**
TROYA Power Plant Electricity Consumption, Based on Electricity Consumption	₺895.088,51	TL	**109,99**
Electric Vehicle Charging Station, Based on Electricity Consumption	₺6.521,14	TL	**0,80**
Heat energy for heating, emissions from imported energy sources in Ankara office	37.753,46	kWh	**6,62**
Heat energy for cooling, emissions from imported energy sources in Ankara office	34.438,03	kWh	**6,04**
Heat energy for heating, emissions from imported energy sources in Istanbul office	25.282,61	kWh	**4,43**
Heat energy for cooling, emissions from imported energy sources in Istanbul office	37.753,46	kWh	**2,92**

Table 32 MARGUN ENERJİ Category 2 Emissions Summary

CATEGORY 2	Emission (tCO_2e)	%
Indirect emissions from imported electricity	1.295,33	98%
Indirect emissions from imported energy	20,00	2%
Total Emissions (tCO_2e)	**1.315,33**	

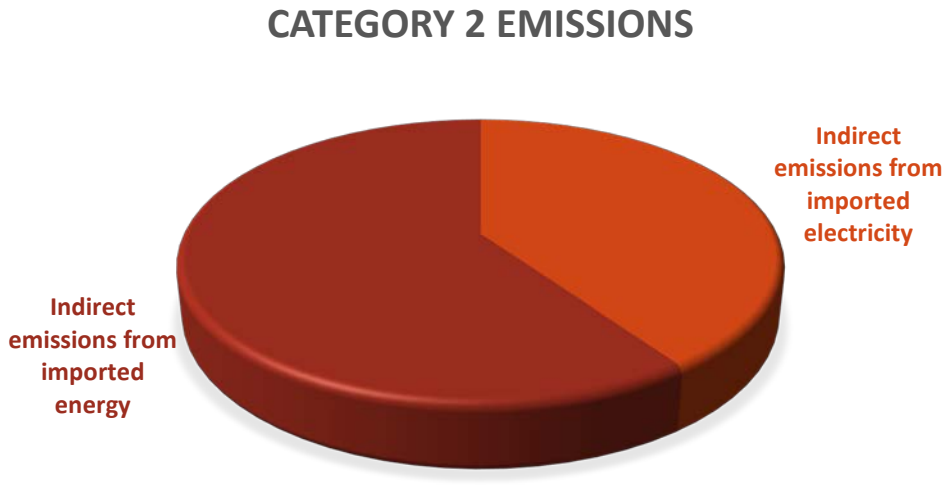

Figure 17 MARGUN ENERJİ Category 2 Emissions

8.1.3. CATEGORY 3 EMISSIONS

The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$. The distribution of the calculation results of Category 3 emissions according to source streams and their percentages in the calculation are given below, respectively:

Table 33 MARGUN ENERJİ Category 3 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Transportation by diesel vehicle, Employees Commuting	39.029	km	**6,75**
Transportation by gasoline vehicle, Employees Commuting	87.348	km	**14,21**
Transportation by electric vehicle, Employees Commuting	48.679	km	**1,97**
Transportation by vehicle with unknown fuel type, Employees Commuting	24.330	km	**4,07**
Transportation by taxi, Employees Commuting	8.356	km	**1,74**
Transportation by bus, Employees Commuting	41.653	km	**4,33**
Transportation by tram, Employees Commuting	4.007	km	**0,11**
Transportation by metro, Employees Commuting	45.696	km	**1,27**
Transportation by metrobus, Employees Commuting	23.432	km	**0,67**
Transportation by minibus, Employees Commuting	6.469	km	**1,36**
Business travel by taxi, Emissions from business travel	₺460.918,65	TL	**7,88**
Business travel abroad, Emissions from business travel	₺149.352,99	TL	**0,39**
Business travel by plane, Emissions from business travel	₺13.105.227,36	TL	**256,79**
Accommodation, Emissions from business travel	₺2.915.285,86	TL	**12,69**

Table 34 MARGUN ENERJİ Category 3 Emissions Summary

CATEGORY 3	Emission (tCO_2e)	%
Upstream emissions from raw material transportation	0,00	0%
Downstream emissions from product transportation	0,00	0,0%
Indirect emissions from employee commuting	36,48	11,6%
Indirect emissions from customer and visitor transportation	0,00	0,0%
Indirect emissions from business travel	277,74	88,4%
Total Emissions (tCO_2e)	**314,22**	

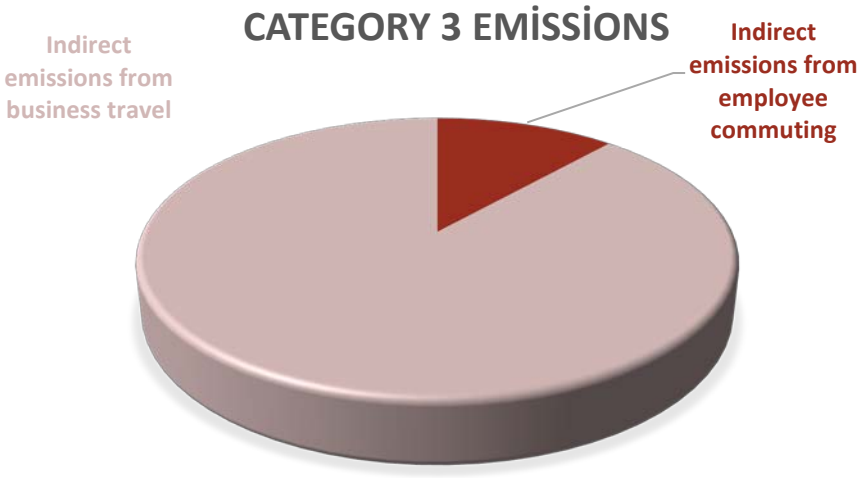

Figure 18 MARGUN ENERJİ Category 3 Emissions

8.1.4. CATEGORY 4 EMISSIONS

During the calculation of Category 4 emissions, raw materials and consumables are included in the products purchased. Water consumption and solid/liquid waste have been calculated in accordance with the number of employees. The exchange rate change was provided at the Central Bank of Turkey's average rate for 2024, which is 32.7921452 TL/$. The distribution of the calculation results according to the source flows and the percentages in the calculation are given below, respectively.

Table 35 MARGUN ENERJİ Category 4 Emissions and Resource Flow

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Equipment Purchases, emissions from goods purchased for ANGORA	₺721.648,34	TL	**2,73**
Inverter Purchases, emissions from goods purchased for ANGORA	₺20.753,28	TL	**0,08**
Workwear Purchases, emissions from goods purchased for ANGORA	₺259.444,36	TL	**1,07**
Consumable Material Purchases, emissions from goods purchased for ANGORA	₺20.753,28	TL	**0,05**
Equipment Purchases, emissions from goods purchased for TROYA	₺6.783,80	TL	**0,03**
Water consumption, Emissions from office water consumption	₺65.764,53	TL	**1,16**
Wastewater Disposal, Emissions from the treatment of liquid waste	₺65.764,53	TL	**1,16**
Asset purchases, Emissions from Capital Goods for AGAH	₺77.587.355,20	TL	**293,67**
Asset purchases, Emissions from Capital Goods for ANATOLİA	₺14.475.208,90	TL	**54,79**
Asset purchases, Emissions from Capital Goods for ANGORA	₺1.652.383,40	TL	**6,25**
Asset purchases, Emissions from Capital Goods for BOSPHORUS	₺329.780.750,00	TL	**1.248,23**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Asset purchases, Emissions from Capital Goods for SOLEİL	₺101.340.594,41	TL	**383,58**
Asset purchases, Emissions from Capital Goods for TROYA	₺103.437.494,81	TL	**391,51**
Disposal of paper waste, emissions from disposal of solid waste at the Ankara Office	0,227	Tonnes	**0,0011**
Disposal of glass waste, emissions from disposal of solid waste at the Ankara Office	0,658	Tonnes	**0,0031**
Disposal of metal waste, emissions from disposal of solid waste at the Ankara Office	0,042	Tonnes	**0,0002**
Disposal of plastic waste, emissions from the disposal of solid waste at the Ankara Office	0,089	Tonnes	**0,0004**
Disposal of paper waste, emissions from disposal of solid waste at the Istanbul Office	0,084	Tonnes	**0,0004**
Disposal of glass waste, emissions from disposal of solid waste at the Istanbul Office	0,157	Tonnes	**0,0007**
Disposal of metal waste, emissions from disposal of solid waste at the Istanbul Office	0,002	Tonnes	**1,03E-05**
Disposal of plastic waste, emissions from disposal of solid waste at the Istanbul Office	0,020	Tonnes	**0,0001**
Maintenance Service Procurement, emissions from service use for AGAH	₺6.989.007,55	TL	**22,9979**
Legal Service Procurement, emissions from service use for AGAH	₺400.671,73	TL	**0,4916**
IT Service Procurement, emissions from service use for AGAH	₺271,24	TL	**0,0005**
Consultancy Service Procurement, emissions from service use for AGAH	₺6.000,00	TL	**0,0160**
Other Service Procurement, emissions from service use for AGAH	₺68.179,50	TL	**0,1634**
Electricity Distribution Service Procurement, emissions from service use for AGAH	₺30.279.613,6	TL	**72,5679**
Communication Service Procurement, emissions from service use for AGAH	₺229.409,71	TL	**0,7551**
Rental Service Procurement, emissions from service use for AGAH	₺144.000,00	TL	**0,3610**
Insurance Service Procurement, emissions from service use for AGAH	₺604.349,20	TL	**0,5225**
Technical Service Procurement, emissions from service use for AGAH	₺318.759,96	TL	**0,7639**
Maintenance Service Procurement, emissions from service use for ANATOLİA	₺1.193.049,10	TL	**3,9258**
Legal Services Procurement, emissions from service use for ANATOLİA	₺357.671,40	TL	**0,4389**
IT Services Procurement, emissions from service use for ANATOLİA	₺248,96	TL	**0,0005**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Consulting Services Procurement, emissions from service use for ANATOLİA	₺431.995,90	TL	**1,1546**
Other Services Procurement, emissions from service use for ANATOLİA	₺23.922,75	TL	**0,0573**
Electricity Distribution Service Procurement, ANATOLİA emissions from service use	₺5.184.692,78	TL	**12,4256**
Communication Service Procurement, ANATOLİA emissions from service use	₺17.460,58	TL	**0,0575**
Rental Service Procurement, ANATOLİA emissions from service use	₺147.643,75	TL	**0,3702**
Travel Service Procurement, ANATOLİA emissions from service use	₺7.540,51	TL	**0,1478**
Insurance Service Procurement, ANATOLIA for emissions from service use	₺107.110,26	TL	**0,0926**
Technical Service Procurement, ANATOLIA for emissions from service use	₺61.896,60	TL	**0,1483**
Hospitality Service Procurement, ANGORA for emissions from s	₺15.967,48	TL	**0,0427**
Maintenance Service Procurement, emissions from service use for ANGORA	₺6.425.504,26	TL	**21,1437**
Legal Services Procurement, emissions from service use for ANGORA	₺502.951,97	TL	**0,6171**
IT Services Procurement, emissions from service use for ANGORA	₺47,28	TL	**0,0001**
Consulting Services Procurement, emissions from service use for ANGORA	₺17.439,29	TL	**0,0466**
Other Services Procurement, emissions from service use for ANGORA	₺50.826,52	TL	**0,1218**
Security Services Procurement, emissions from service use for ANGORA	₺3.600,00	TL	**0,0080**
OHS Service Procurement, emissions from service use for ANGORA	₺414.794,47	TL	**0,9941**
Stationery Service Procurement, emissions from service use for ANGORA	₺26.243,16	TL	**0,2355**
Rental Service Procurement, emissions from service use for ANGORA	₺144.000,00	TL	**0,3610**
Transportation Service Procurement, emissions from service use for ANGORA	₺72.719,56	TL	**1,2918**
Travel Service Procurement, emissions from service use for ANGORA	₺12.903,90	TL	**0,2528**
Cleaning Services Procurement, ANGORA emissions from service use	₺13.033,60	TL	**0,0700**
Food Services Procurement, ANGORA emissions from service use	₺110.431,45	TL	**0,4369**
Maintenance Services Procurement, BOSPHORUS emissions from service use	₺18.834.283,5	TL	**61,9758**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Consulting Services Procurement, BOSPHORUS emissions from service use	₺76.472.276,5	TL	**204,3969**
Other Services Procurement, BOSPHORUS emissions from service use	₺147.803,68	TL	**0,3542**
Electricity Distribution Service Procurement, emissions from service use for BOSPHORUS	₺80.475.813,1	TL	**192,8677**
Security Service Procurement, emissions from service use for BOSPHORUS	₺147.108,49	TL	**0,3250**
Communication Service Procurement, emissions from service use for BOSPHORUS	₺3.795,82	TL	**0,0125**
OHS Service Procurement, emissions from service use for BOSPHORUS	₺1.090.201,99	TL	**2,6128**
Transportation Service Procurement, emissions from service use for BOSPHORUS	₺497.315,04	TL	**8,8346**
Insurance Service Procurement, emissions from service use for BOSPHORUS	₺1.321.381,13	TL	**1,1424**
Technical Service Procurement, emissions from service use for BOSPHORUS	₺167.954.257	TL	**402,5179**
Legal Services Procurement, emissions from service use for SOLEIL	₺554.633,00	TL	**0,6806**
IT Services Procurement, emissions from service use for SOLEIL	₺1.488,00	TL	**0,0029**
Maintenance Services Procurement, emissions from service use for SOLEIL	₺7.696.872,00	TL	**25,3272**
Consulting Services Procurement, emissions from service use for SOLEIL	₺454.796,81	TL	**1,2156**
Other Services Procurement, emissions from service use for SOLEIL	₺70.836,02	TL	**0,1698**
Electricity Distribution Service Procurement, emissions from service use for SOLEIL	₺8.949.077,71	TL	**21,4473**
Communication Service Procurement, emissions from service use for SOLEIL	₺23.274,86	TL	**0,0766**
Rental Service Procurement, emissions from service use for SOLEIL	₺151.800,00	TL	**0,3806**
Travel Service Procurement, emissions from service use for SOLEIL	₺1.947.379,79	TL	**38,1580**
Insurance Service Procurement, emissions from service use for SOLEIL	₺1.138.954,50	TL	**0,9847**
Technical Service Procurement, emissions from service use for SOLEIL	₺67.800,00	TL	**0,1625**
Maintenance Service Procurement, emissions from service use for TROYA	₺7.327.668,78	TL	**24,1123**
Legal Service Procurement, emissions from service use for TROYA	₺72.387,64	TL	**0,0888**
IT Service Procurement, emissions from service use for TROYA	₺354,24	TL	**0,0007**

Resource Flow	Consumption Data	Unit	Emissions (tCO_2e)
Consulting Services Procurement, TROYA for emissions from service use	₺283.388,78	TL	**0,7574**
Other Services Procurement, TROYA for emissions from service use	₺4.359,93	TL	**0,0104**
Electricity Distribution Services Procurement, TROYA for emissions from service use	₺31.042.046,8	TL	**74,3951**
Communication Service Procurement, TROYA emissions from service use	₺74.944,44	TL	**0,2467**
Rental Service Procurement, TROYA emissions from service use	₺2.644.738,82	TL	**6,6310**
Insurance Service Procurement, TROYA emissions from service use	₺454.841,13	TL	**0,3932**
Technical Service Procurement, TROYA emissions from service use	₺393.144,60	TL	**0,9422**
Construction-Assembly Installation (tool rentals) Service Procurement, emissions from servise use for MARGUN ENERJİ	₺18.000,00	TL	**0,1171**
Exhibition Participation Expenses Service Procurement, emissions from servise use for MARGUN ENERJİ	₺111.377,36	TL	**0,4173**
Vehicle Rental Service Procurement, emissions from servise use for MARGUN ENERJİ	₺38.532,97	TL	**0,1272**
Gifts, meals, hospitality services Service Procurement, emissions from servise use for MARGUN ENERJİ	₺3.426.640,73	TL	**9,1588**
Rented real estate (rent and fees) Service Procurement, emissions from servise use for MARGUN ENERJİ	₺5.403.432,47	TL	**5,3730**
Sustainability expenses Service Purchase, emissions from servise use for MARGUN ENERJİ	₺1.938.662,00	TL	**5,1817**

Table 36 MARGUN ENERJİ Category 4 Emissions Summary

CATEGORY 4	Emission (tCO_2e)	%
Indirect emissions from purchased goods	5,11	0%
Indirect emissions from capital goods	2.378,03	65,7%
Indirect emissions from solid and liquid waste disposal	1,17	0,0%
Indirect emissions from services utilized	1.234,68	34,1%
Total Emissions (tCO_2e)	**3.618,99**	

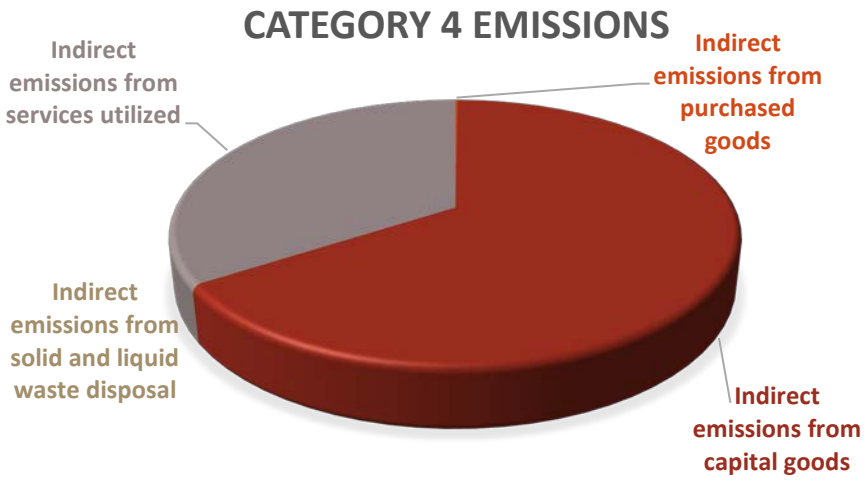

Figure 19 MARGUN ENERJİ Category 4 Emissions

8.1.5. CATEGORY 5 EMISSIONS

The company provides EPC services. This signifies that there is no associated emissions for its products.

8.2. INVENTORY DATA SOURCE, INTERPRETATION OF RESULTS, AND INVENTORY SUMMARY

The results of calculations for all categories are presented in the table below:

Table 37 Emissions in All Categories and Their Distribution

CATEGORIES	Emissions (tCO_2e)	Percentage Distribution
CATEGORY 1	7,85	0,15%
CATEGORY 2	1.315,33	25,02%
CATEGORY 3	314,22	5,98%
CATEGORY 4	3.618,99	68,85%
CATEGORY 5	0,00	0,00%
CATEGORY 6	0,00	0,00%
SUM	**5.256,40**	

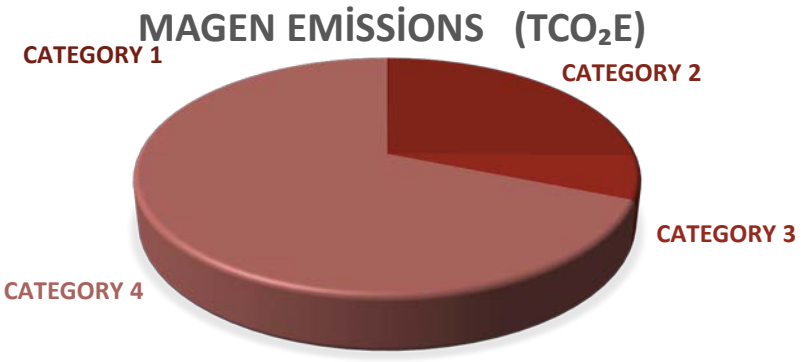

Figure 20 MARGUN ENERJİ Percentage distribution of greenhouse gas emission categories

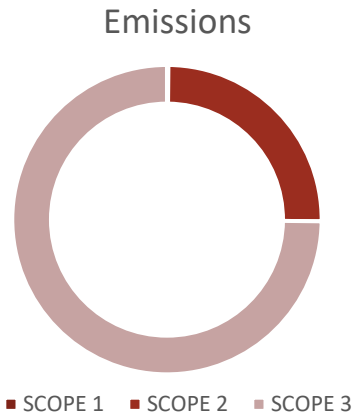

Figure 21 MARGUN ENERJİ Distribution of greenhouse gas emission scopes

Table 38 MARGUN ENERJİ Emissions and Distribution by Scope

SCOPES	EMISSION (tCO_2e)
SCOPE 1	7,85
SCOPE 2	1.315,33
SCOPE 3	3.933,22
Location Based	5.256,40
Market Based	5.256,40

Table 39 MARGUN ENERJİ GHG Emissions

Scopes	Emissions
Scope 1	
1: Stationary Combustion Emissions	0,00
2: Mobile Combustion Emissions	7,84
3: Fugitive Emissions	0,01
Scope 2	
1: Emissions from Purchased Electricity	1.315,33
Scope 3	
1: Purchased Goods and Services	1.239,79
2: Capital Goods	2.378,03
3: Fuel- and Energy-Related Activities Not Included in Scope 1 or Scope 2	0,00
4: Upstream Transportation and Distribution	0,00
5: Waste Generated in Operation	1,17
6: Business Travel	277,74
7: Employee Commuting	36
8: Upstream Leased Assets	0
9: Downstream Transportation and Distribution	0,00
10: Processing of Sold Products	0,00
11: Use of Sold Products	0,00
12: End-of-Life Treatment of Sold Products	0,00
13: Downstream Leased Asset	0
14: Franchises	0
15: Investments	0
TOTAL	**5.256,40**

8.3. UNCERTAINTY ANALYSIS

Uncertainty calculations were performed using the Pedigree Matrix approach, resulting in an overall uncertainty level of 12%. One of the key reasons for this value is the exclusive use of Tier 1 emission factors, except for electricity consumption, for which Tier 2 factors were applied. Additionally, some activity data could not be obtained through direct measurement, which further contributes to the uncertainty. All greenhouse gas sources were included in the calculations.

9. SUMMARY RESULT

According to the results of Naturel Enerji, Esenboga Elektrik and Margun Enerji;

Table 40 Total Emissions Distribution by Subsidiary

Company	Emission (ton CO_2eq)	Percentage
NATUREL ENERJİ	2.714,08 ton CO_2eq	33,9%
ESENBOGA ELEKTRİK	35,53 ton CO_2eq	0,4%
MARGUN ENERJİ	5.256,40 ton CO_2eq	65,7%

Table 41 Category Emission Distribution by Subsidiary

CATEGORIES	NATUREL ENERJİ Emissions (tCO_2e)	ESENBOGA ELEKTRİK Emissions (tCO_2e)	MARGUN ENERJİ Emissions (tCO_2e)
KATEGORİ 1	86,21	6,66	7,85
KATEGORİ 2	80,10	1,61	1.315,33
KATEGORİ 3	170,79	2,45	314,22
KATEGORİ 4	2.376,98	24,80	3.618,99
KATEGORİ 5	0,00	0,00	0,00
KATEGORİ 6	0,00	0,00	0,00
TOPLAM	**2.714,08**	**35,53**	**5.256,40**

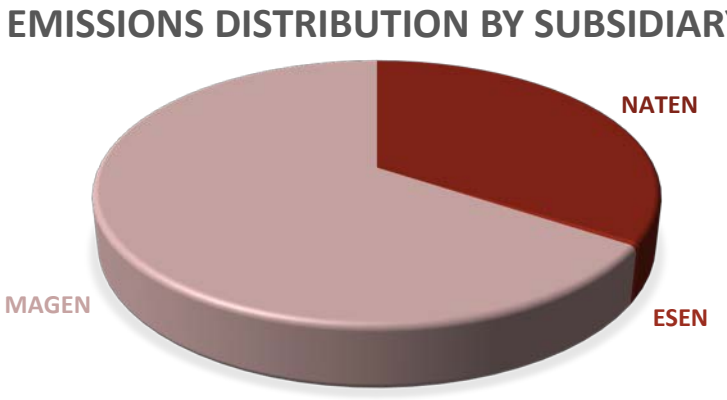

Figure 22 Emissions Distribution by Subsidiary

Table 42 Scope Emission Distribution by Subsidiary

SCOPES	NATUREL ENERJİ Emissions (tCO_2e)	ESENBOGA ELEKTRİK Emissions (tCO_2e)	MARGUN ENERJİ Emissions (tCO_2e)
SCOPE 1	86,21	6,66	7,85
SCOPE 2	80,10	1,61	1.315,33
SCOPE 3	2.547,77	27,26	3.933,22
Location Based	*2.714,08*	*35,53*	*5.256,40*
Market Based	*2.714,08*	*35,53*	*5.256,40*

An analysis of the 2024 greenhouse gas (GHG) inventory for Naturel Enerji, Margün Enerji, and Esenboğa Elektrik identifies purchased goods and services as the most significant source of emissions. Compared to the previous reporting period, the 2024 inventory reflects an expanded scope of activities, now including emissions from purchased goods and services, leased assets, and capital goods.

The total emissions were calculated as 8,005.99 tCO_2e, with the largest share attributable to Category 4 (6,020.77 tCO_2e), followed by Category 2 (1,397.04 tCO_2e), Category 3 (487.46 tCO_2e), and Category 1 (100.72 tCO_2e). Within Category 4, the majority of emissions are associated with the production processes of purchased products.

To address these impacts, the organisation should prioritise sourcing raw materials from suppliers with lower carbon intensity and environmentally friendly production practices, while also improving efficiency in the use of consumables. This approach will directly contribute to the reduction of supply chain emissions.

For Category 3 emissions, which are primarily related to business travel, the adoption of digital solutions and travel optimisation practices are recommended. Promoting virtual meetings and implementing more efficient travel policies will enable a measurable reduction in these indirect emissions.

In addition, increasing investments in electric vehicles will reduce mobile combustion emissions reported under Category 1. Furthermore, to mitigate Category 2 emissions, it is recommended that employees be provided with targeted awareness training and that the companies transition to systems with lower energy consumption, thereby reducing electricity usage.

Together, these measures will enhance operational efficiency, strengthen alignment with international climate commitments, and support the organisation's long-term decarbonisation targets.

The Company applies an internal carbon price range of €20-50/tCO_2e depending on the project scenario analysis, to reflect anticipated carbon market developments, emerging carbon regulation in Türkiye, and increasing alignment with European climate policies. Accordingly, the resulting internal carbon prices are as follows:

Table 43 Internal Carbon Price

SCOPES	Emissions (tCO_2e)	Internal Carbon Unit Price (€/tCO_2e)	Internal Carbon Price (€)	Internal Carbon Price (TL)
NATUREL ENERJİ	2.714,08	20-50	54.281,6€-135.704€	1.997.693,15 TL – 4.994.232,89 TL
ESENBOGA ELEKTRİK	35,53	20-50	710,6€- 1.776,5€	26.151,78 TL – 65.379,46 TL
MARGUN ENERJİ	5.256,40	20-50	105.128,0€–262.820,0€	3.868.962,70 TL – 9.672.406,77 TL

The internal carbon price was determined based on calculated greenhouse gas emissions. The Indicative Exchange Rates Announced at 3:30 PM on December 31, 2024, by the Central Bank of Turkey were used for exchange rate conversions.

10.GREENHOUSE GAS REDUCTION ACTIVITIES

The Companies acknowledges the critical importance of emissions management in combating climate change and supporting the transition to a low-carbon economy. In this context, 2024 has been designated as the base year for emission calculations, supported by an expanded carbon footprint data set. Responsibility for the implementation and monitoring of emission-related initiatives lies with the Environment Subcommittee, which reports directly to the CEO and Executive Committee.

The Companies is committed to achieving net-zero emissions by 2050 and has defined interim targets for 2030: a 30% reduction in Scope 1 and Scope 2 emissions, and a 25% reduction in Scope 3 emissions. To reach these targets, decarbonization measures are being implemented, including electrification, green office practices, supply chain collaboration, employee engagement, and energy efficiency programs aligned with international standards.

In 2024, the number of electric vehicles in the corporate fleet was increased to reduce emissions from staff transportation. The Companies also applies its Green Office Policy by operating in energy-efficient, sustainability-certified buildings, exemplified by the Istanbul office located in Zorlu Center, recipient of the Green Good Design Award. Furthermore, supplier meetings are held regularly to raise awareness on carbon emissions and circular business practices. Evidence of emissions management practices is required under the Supplier Policy, with the right to terminate contracts in cases of non-compliance.

On energy efficiency, the Companies follows ISO 50001, focusing on reducing total consumption, increasing renewable energy share, deploying battery storage systems, and adopting AI-powered energy management technologies. A strategic goal has been set to achieve a 30% improvement in operational energy efficiency by 2030. The strategy of scaling renewable energy capacity directly contributes to global net-zero pathways and COP28 objectives. The Companies invests in innovative climate technologies such as IoT-enabled monitoring and predictive analytics. Reduced-rate solar programs for small-scale customers are introduced to promote access and affordability in terms of the social aspect of sustainability, thereby supporting SDG 7 (Affordable and Clean Energy).

11.GREENHOUSE GAS REDUCTION AND IMPROVEMENT TARGETS

In accordance with the companies' long-term climate strategy, it has committed to achieving net-zero greenhouse gas emissions by 2050. To ensure steady progress toward this aim, reduction targets have been set for 2030. By that year, the companies aims to achieve a 30% reduction in Scope 1 and Scope 2 emissions and a 25% reduction in Scope 3 emissions compared to the established base year. These targets reflect the companies' commitment to aligning with global climate goals and to take concrete steps in mitigating the environmental impact of its operations and value chain.

11. VERIFICATION STATEMENT

The organization has not requested a verification statement for the inventory period.

12. REFERENCES

- #REF1 Ingwersen, W. AND M. Li. Supply Chain Greenhouse Gas Emission Factors for US Industries and Commodities. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-20/001, 2020.

https://catalog.data.gov/dataset/supply-chain-ghg-emission-factors-for-us-commodities-and-industries-v1-1-1

- #REF2 Guidelines for National Greenhouse Gas Inventories, 2006.

https://www.ipcc.ch/report/ar6/wg1/downloads/report/IPCC_AR6_WGI_Chapter_07_Supplementary_Material.pdf

- #REF3 IPCC Guidelines for National Greenhouse Gas Inventories, 2006.

https://www.ipcc-nggip.iges.or.jp/public/2006gl/pdf/3_Volume3/V3_7_Ch7_ODS_Substitutes.pdf

- #REF4 IPCC Guidelines for National Greenhouse Gas Inventories, 2006, IPCC/TEAP Special Report: Safeguarding the Ozone Layer and the Global Climate System.

https://www.ipcc.ch/site/assets/uploads/2022/03/sroc_full-1.pdf

- #REF5 Ingwersen, W. AND M. Li. Supply Chain Greenhouse Gas Emission Factors for US Industries and Commodities. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-20/001, 2020.

https://cfpub.epa.gov/si/si_public_record_Report.cfm?dirEntryId=349324&Lab=CESER

- #REF6 Republic of Turkey Ministry of Energy and Natural Resources, TURKEY ELECTRICITY GENERATION AND ELECTRICITY CONSUMPTION POINT EMISSION FACTORS FACT SHEET, 2024

https://enerji.gov.tr/Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/EmisyonFaktorleri/BilgiFormu.pdf

- #REF7 Department for Environmental, Food & Rural Affairs (DEFRA), 2025.

https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2025

ANNEX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
1	Naturel Enerji	Category 1	Direct emissions from mobile combustion	Fuel	Gasoline
2	Naturel Enerji	Category 1	Direct emissions from mobile combustion	Fuel	Diesel
3	Esenboga Elektrik	Category 1	Direct emissions from mobile combustion	Fuel	Gasoline
4	Esenboga Elektrik	Category 1	Direct emissions from mobile combustion	Fuel	Other
5	Margun Enerji	Category 1	Direct emissions from mobile combustion	Fuel	Gasoline
6	Margun Enerji	Category 1	Direct emissions from mobile combustion	Fuel	Other
7	Ankara	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Fire extinguisher	
8	İstanbul	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Fire extinguisher	
9	Ankara	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Refrigerator	
10	Ankara	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Refrigerator	
11	Ankara	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Refrigerator	
12	Ankara	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Coolers	
13	İstanbul	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Refrigerator	
14	İstanbul	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Air conditioner	
15	İstanbul	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Air conditioner	
16	İstanbul	Category 1	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	Coolers	
17	Naturel Enerji	Category 2	Indirect emissions from imported energy	Electricity	
18	Esenboga Elektrik	Category 2	Indirect emissions from imported energy	Electricity	
19	Margun Enerji	Category 2	Indirect emissions from imported energy	Electricity	
20	Margun Enerji	Category 2	Indirect emissions from imported energy	Electricity	
21	Agah	Category 2	Indirect emissions from imported energy	Electricity	
22	Anatolia	Category 2	Indirect emissions from imported energy	Electricity	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
23	Bosphorus	Category 2	Indirect emissions from imported energy	Electricity	
24	Soleil	Category 2	Indirect emissions from imported energy	Electricity	
25	Troya	Category 2	Indirect emissions from imported energy	Electricity	
26	Naturel Enerji	Category 2	Indirect emissions from imported energy	Electric Vehicle	
27	Esenboga Elektrik	Category 2	Indirect emissions from imported energy	Electric Vehicle	
28	Margun Enerji	Category 2	Indirect emissions from imported electricity	Electric Vehicle	
29	Ankara	Category 2	Indirect emissions from imported energy	Heat Energy	
30	Ankara	Category 2	Indirect emissions from imported energy	Heat Energy	
31	İstanbul	Category 2	Indirect emissions from imported energy	Heat Energy	
32	İstanbul	Category 2	Indirect emissions from imported energy	Heat Energy	
33	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Metro	
34	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Bus	
35	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Metrobus	
36	Naturel Holding	Category 3	Emissions from employee commuting	Private Vehicle Transportation	Gasoline Vehicle
37	Naturel Holding	Category 3	Emissions from employee commuting	Private Vehicle Transportation	Diesel Vehicle
38	Naturel Holding	Category 3	Emissions from employee commuting	Private Vehicle Transportation	Electric Vehicle
39	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Taxi	
40	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Tram	
41	Naturel Holding	Category 3	Emissions from employee commuting	Transportation by Minibus	
42	Angora	Category 4	Emissions from purchased goods	Equipment	
43	Angora	Category 4	Emissions from purchased goods	Inverter	
44	Angora	Category 4	Emissions from purchased goods	Workwear	
45	Angora	Category 4	Emissions from purchased goods	Consumables	
46	Troya	Category 4	Emissions from purchased goods	Equipment	
47	Esenboga Elektrik	Category 4	Emissions from purchased goods	Paper (All Stationery Expenses)	
48	Naturel Enerji	Category 4	Emissions from purchased goods	Panel	
49	Naturel Enerji	Category 4	Emissions from purchased goods	Steel Construction	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
50	Naturel Enerji	Category 4	Emissions from purchased goods	Cable	
51	Naturel Enerji	Category 4	Emissions from purchased goods	Inverter	
52	Naturel Enerji	Category 4	Emissions from purchased goods	Transformer	
53	Naturel Enerji	Category 4	Emissions from purchased goods	Technical Materials - Equipment	
54	Naturel Enerji	Category 4	Emissions from purchased goods	Open Clipboard - Name Pano- Open Main Clipboard	
55	Naturel Enerji	Category 4	Emissions from purchased goods	Scada	
56	Naturel Enerji	Category 4	Emissions from purchased goods	Autoproducer Cell	
57	Naturel Enerji	Category 4	Emissions from purchased goods	Separated Entry Hicre	
58	Naturel Enerji	Category 4	Emissions from purchased goods	Measure Cell	
59	Naturel Enerji	Category 4	Emissions from purchased goods	Rectifiers	
60	Naturel Enerji	Category 4	Emissions from purchased goods	Prefabricated Kiosk	
61	Naturel Enerji	Category 4	Emissions from purchased goods	MV Cell	
62	Naturel Enerji	Category 4	Emissions from purchased goods	Grounding System	
63	Naturel Enerji	Category 4	Emissions from purchased goods	Datalogger	
64	Naturel Enerji	Category 4	Emissions from purchased goods	Steel Transport Systems	
65	Esenboga Elektrik	Category 4	Emissions from purchased goods	Technical Materials - Equipment	
66	Naturel Enerji	Category 4	Emissions from purchased goods	Paper (All Stationery Expenses)	
67	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
68	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
69	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
70	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
71	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
72	Naturel Enerji	Category 4	Emissions from capital goods	Entity	
73	Naturel Enerji	Category 4	Emissions from capital goods	Gasoline Vehicle Purchases	
74	Naturel Enerji	Category 4	Emissions from capital goods	Diesel Vehicle Purchases	
75	Naturel Enerji	Category 4	Emissions from capital goods	Screen	
76	Naturel Enerji	Category 4	Emissions from capital goods	Electric Vehicle Purchases	
77	Naturel Enerji	Category 4	Emissions from capital goods	Hybrid Vehicle Purchases	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
78	Naturel Enerji	Category 4	Emissions from capital goods	Laptop	
79	Naturel Enerji	Category 4	Emissions from capital goods	Printer	
80	Naturel Enerji	Category 4	Emissions from capital goods	Furniture Export	
81	Naturel Enerji	Category 4	Emissions from solid and liquid waste	Wastewater Disposal	
82	İstanbul	Category 4	Emissions from solid and liquid waste	Wastewater Disposal	
83	Ankara	Category 4	Emissions from solid and liquid waste	Paper Waste	
84	Ankara	Category 4	Emissions from solid and liquid waste	Glass Waste	
85	Ankara	Category 4	Emissions from solid and liquid waste	Metal Waste	
86	Ankara	Category 4	Emissions from solid and liquid waste	Plastic Waste	
87	İstanbul	Category 4	Emissions from solid and liquid waste	Paper Waste	
88	İstanbul	Category 4	Emissions from solid and liquid waste	Glass Waste	
89	İstanbul	Category 4	Emissions from solid and liquid waste	Metal Waste	
90	İstanbul	Category 4	Emissions from solid and liquid waste	Plastic Waste	
91	Agah	Category 4	Emissions from the use of services	Maintenance	
92	Agah	Category 4	Emissions from the use of services	Advocacy Service	
93	Agah	Category 4	Emissions from the use of services	Informatics	
94	Agah	Category 4	Emissions from the use of services	Consulting	
95	Agah	Category 4	Emissions from the use of services	Other	
96	Agah	Category 4	Emissions from the use of services	Electricity Distribution	
97	Agah	Category 4	Emissions from the use of services	Communication	
98	Agah	Category 4	Emissions from the use of services	Lease	
99	Agah	Category 4	Emissions from the use of services	Insurance	
100	Agah	Category 4	Emissions from the use of services	Technical Service	
101	Anatolia	Category 4	Emissions from the use of services	Maintenance	
102	Anatolia	Category 4	Emissions from the use of services	Advocacy Service	
103	Anatolia	Category 4	Emissions from the use of services	Informatics	
104	Anatolia	Category 4	Emissions from the use of services	Consulting	
105	Anatolia	Category 4	Emissions from the use of services	Other	
106	Anatolia	Category 4	Emissions from the use of services	Electricity Distribution	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
107	Anatolia	Category 4	Emissions from the use of services	Communication	
108	Anatolia	Category 4	Emissions from the use of services	Lease	
109	Anatolia	Category 4	Emissions from the use of services	Travel	
110	Anatolia	Category 4	Emissions from the use of services	Insurance	
111	Anatolia	Category 4	Emissions from the use of services	Technical Service	
112	Angora	Category 4	Emissions from the use of services	Hospitality	
113	Angora	Category 4	Emissions from the use of services	Maintenance	
114	Angora	Category 4	Emissions from the use of services	Advocacy Service	
115	Angora	Category 4	Emissions from the use of services	Informatics	
116	Angora	Category 4	Emissions from the use of services	Consulting	
117	Angora	Category 4	Emissions from the use of services	Other	
118	Angora	Category 4	Emissions from the use of services	Security	
119	Angora	Category 4	Emissions from the use of services	Ohs	
120	Angora	Category 4	Emissions from the use of services	Stationery	
121	Angora	Category 4	Emissions from the use of services	Lease	
122	Angora	Category 4	Emissions from the use of services	Transportation	
123	Angora	Category 4	Emissions from the use of services	Travel	
124	Angora	Category 4	Emissions from the use of services	Cleaning	
125	Angora	Category 4	Emissions from the use of services	Eat	
126	Bosphorus	Category 4	Emissions from the use of services	Maintenance	
127	Bosphorus	Category 4	Emissions from the use of services	Consulting	
128	Bosphorus	Category 4	Emissions from the use of services	Other	
129	Bosphorus	Category 4	Emissions from the use of services	Electricity Distribution	
130	Bosphorus	Category 4	Emissions from the use of services	Security	
131	Bosphorus	Category 4	Emissions from the use of services	Communication	
132	Bosphorus	Category 4	Emissions from the use of services	Ohs	
133	Bosphorus	Category 4	Emissions from the use of services	Transportation	
134	Bosphorus	Category 4	Emissions from the use of services	Insurance	
135	Bosphorus	Category 4	Emissions from the use of services	Technical Service	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
136	Soleil	Category 4	Emissions from the use of services	Advocacy Service	
137	Soleil	Category 4	Emissions from the use of services	Informatics	
138	Soleil	Category 4	Emissions from the use of services	Consulting	
139	Soleil	Category 4	Emissions from the use of services	Other	
140	Soleil	Category 4	Emissions from the use of services	Electricity Distribution	
141	Soleil	Category 4	Emissions from the use of services	Communication	
142	Soleil	Category 4	Emissions from the use of services	Lease	
143	Soleil	Category 4	Emissions from the use of services	Travel	
144	Soleil	Category 4	Emissions from the use of services	Insurance	
145	Soleil	Category 4	Emissions from the use of services	Technical Service	
146	Troya	Category 4	Emissions from the use of services	Maintenance	
147	Troya	Category 4	Emissions from the use of services	Advocacy Service	
148	Troya	Category 4	Emissions from the use of services	Informatics	
149	Troya	Category 4	Emissions from the use of services	Consulting	
150	Troya	Category 4	Emissions from the use of services	Other	
151	Troya	Category 4	Emissions from the use of services	Electricity Distribution	
152	Troya	Category 4	Emissions from the use of services	Communication	
153	Troya	Category 4	Emissions from the use of services	Lease	
154	Troya	Category 4	Emissions from the use of services	Insurance	
155	Troya	Category 4	Emissions from the use of services	Technical Service	
156	Naturel Enerji	Category 4	Emissions from the use of services	Construction-Assembly Installation (Tool Rentals)	
157	Naturel Enerji	Category 4	Emissions from the use of services	Fair Participation Expenses	
158	Naturel Enerji	Category 4	Emissions from the use of services	Services Received From Abroad	
159	Margun Enerji	Category 4	Emissions from the use of services	Construction-Assembly Installation (Tool Rentals)	
160	Margun Enerji	Category 4	Emissions from the use of services	Fair Participation Expenses	
161	Naturel Enerji	Category 4	Emissions from the use of services	Rent A Car	

APPENDIX-1 Greenhouse Gas Inventory

No	Location	Category	Emission Source	Activity	Sub-activity
162	Naturel Enerji	Category 4	Emissions from the use of services	Gift, Food, Hospitality Services (Gift Card, Chocolate, Gift Product, Food Hospitality, etc.)	
163	Naturel Enerji	Category 4	Emissions from the use of services	Rented Property (Rent and Dues)	
164	Naturel Enerji	Category 4	Emissions from the use of services	Staff Meal Expenses (Sodexo)	
165	Naturel Enerji	Category 4	Emissions from the use of services	Sustainability Expenses	
166	Naturel Enerji	Category 4	Emissions from the use of services	Cleaning	
167	Esenboga Elektrik	Category 4	Emissions from the use of services	Rent A Car	
168	Esenboga Elektrik	Category 4	Emissions from the use of services	Gifts, Meals, Hospitality Services	
169	Esenboga Elektrik	Category 4	Emissions from the use of services	Rented Property (Rent and Dues)	
170	Esenboga Elektrik	Category 4	Emissions from the use of services	Sustainability Expenses	
171	Esenboga Elektrik	Category 4	Emissions from the use of services	Cleaning	
172	Margun Enerji	Category 4	Emissions from the use of services	Rent A Car	
173	Margun Enerji	Category 4	Emissions from the use of services	Gifts, Meals, Hospitality Services	
174	Margun Enerji	Category 4	Emissions from the use of services	Rented Property (Rent and Dues)	
175	Margun Enerji	Category 4	Emissions from the use of services	Sustainability Expenses	

ANNEX 2- GHG DATA SOURCES AND INVENTORY

Table 44 NATUREL ENERJİ Data Sources

Resource Flow	DATA SOURCE
CATEGORY 1 Emissions	
Gasoline Consumption	Invoices
Diesel Consumption	Invoices
Fire Extinguishers	Inventory List
Refrigerators	Inventory List
Air Conditioners	Inventory List
Electric water fountain	Inventory List
CATEGORY 2 Emissions	
Electricity Consumption	Invoices
Electricity Consumption	Plaza consumption report **Calculated based on the number of employees.*
CATEGORY 3 Emissions	
Employee Commuting	*Employee Transportation Survey *Calculated based on the number of employees.*
Business Travel	Invoices
CATEGORY 4 Emissions	
Purchased Goods	Invoices
Capital Goods	Invoices
Waste Consumption	Invoices **Calculated based on the number of employees.*
Waste Water Treatment	Considered equivalent to the amount of water consumed.
Waste Disposal	Waste declaration **Calculated based on the number of employees.*
Purchase of Services	Invoices

A greenhouse gas inventory was developed, followed by a materiality assessment. Emission sources with less than 1% impact on total emissions were classified as *insignificant sources*.

APPENDIX 2- GHG DATA SOURCES AND INVENTORY

Table 45 NATUREL ENERJİ Greenhouse Gas Emissions Inventory

Greenhouse Gas Emissions		SUM (tCO_2e)	Note
1.1	Direct emissions from stationary combustion	**0,00**	
1.2	Direct emissions from mobile combustion	**86,21**	
1.3	Emissions from industrial processes	**0,00**	
1.4	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	**0,01**	
1.5	Direct emissions and removals from land use, land use change and forestry	**0,00**	
2	**Indirect GHG emissions from imported energy**		
2.1	Indirect emissions from imported electricity	**74,34**	
2.2	Indirect emissions from imported energy	**5,75**	**I.S.**
3	**Indirect GHG emissions from transportation**		
3.1	Emissions from upstream transport and distribution for goods	**0,00**	**N.D.**
3.2	Emissions from downstream transport and distribution for goods	**0,00**	**N.D.**
3.3	Emissions from employee commuting	**10,50**	**I.S.**
3.4	Emissions from customer and visitor transport	**0,00**	**N.D.**
3.5	Emissions from business travels	**160,30**	
4	**Indirect GHG emissions from products used by the organization**		
4.1	Emissions from purchased goods	**1.825,46**	
4.2	Emissions from capital goods	**258,97**	
4.3	Emissions from solid and liquid waste	**0,34**	**I.S.**
4.4	Emissions from the use of assets	**0,00**	**N.D.**
4.5	Emissions from the use of services	**292,21**	
5	**Indirect GHG emissions associated with the use of products from organization**		
5.1	Emissions from the use stage of the product		
5.2	Emissions from downstream leased assets	**0,00**	**N.D.**
5.3	Emissions from end-of-life stage of the product	**0,00**	**N.D.**
5.4	Emissions from investments	**0,00**	**N.D.**
6	**Indirect GHG emissions from other sources**		
6.1	Emissions from other sources	**0,00**	**N.D.**

** I.S.: Insignificant source * N.D.: Not applicable / Not included*

APPENDIX 2- GHG DATA SOURCES AND INVENTORY

Table 3 ESENBOGA ELEKTRİK Data Sources

Resource Flow	DATA SOURCE
CATEGORY 1 Emissions	
Gasoline Consumption	Invoices
Diesel Consumption	Invoices
Fire Extinguishers	Inventory List
Refrigerators	Inventory List
Air Conditioners	Inventory List
Electric water fountain	Inventory List
CATEGORY 2 Emissions	
Electricity Consumption	Invoices
Electricity Consumption	Plaza consumption report **Calculated based on the number of employees.*
CATEGORY 3 Emissions	
Employee Commuting	*Employee Transportation Survey *Calculated based on the number of employees.*
Business Travel	Invoices
CATEGORY 4 Emissions	
Purchased Goods	Invoices
Capital Goods	Invoices
Waste Consumption	Invoices **Calculated based on the number of employees.*
Waste Water Treatment	Considered equivalent to the amount of water consumed.
Waste Disposal	Waste declaration **Calculated based on the number of employees.*
Purchase of Services	Invoices

A greenhouse gas inventory was developed, followed by a materiality assessment. Emission sources with less than 1% impact on total emissions were classified as *insignificant sources*.

APPENDIX 2- GHG DATA SOURCES AND INVENTORY

Table 4 ESENBOGA ELEKTRİK Greenhouse Gas Emissions Inventory

Greenhouse Gas Emissions		SUM (tCO_2e)	Note
1.1	Direct emissions from stationary combustion	**0,00**	
1.2	Direct emissions from mobile combustion	**6,66**	
1.3	Emissions from industrial processes	**0,00**	
1.4	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	**0,00**	
1.5	Direct emissions and removals from land use, land use change and forestry	**0,00**	
2	**Indirect GHG emissions from imported energy**		
2.1	Indirect emissions from imported electricity	**0,65**	
2.2	Indirect emissions from imported energy	**0,96**	
3	**Indirect GHG emissions from transportation**		
3.1	Emissions from upstream transport and distribution for goods	**0,00**	**N.D.**
3.2	Emissions from downstream transport and distribution for goods	**0,00**	**N.D.**
3.3	Emissions from employee commuting	**1,75**	
3.4	Emissions from customer and visitor transport	**0,00**	**N.D.**
3.5	Emissions from business travels	**0,71**	
4	**Indirect GHG emissions from products used by the organization**		
4.1	Emissions from purchased goods	**0,54**	
4.2	Emissions from capital goods	**20,02**	
4.3	Emissions from solid and liquid waste	**0,06**	**I.S.**
4.4	Emissions from the use of assets	**0,00**	**N.D.**
4.5	Emissions from the use of services	**4,19**	
5	**Indirect GHG emissions associated with the use of products from organization**		
5.1	Emissions from the use stage of the product	**0,00**	**N.D.**
5.2	Emissions from downstream leased assets	**0,00**	**N.D.**
5.3	Emissions from end-of-life stage of the product	**0,00**	**N.D.**
5.4	Emissions from investments	**0,00**	**N.D.**
6	**Indirect GHG emissions from other sources**		
6.1	Emissions from other sources	**0,00**	**N.D.**

** I.S.: Insignificant source * N.D.: Not applicable / Not included*

APPENDIX 2- GHG DATA SOURCES AND INVENTORY

Table 5 MARGUN ENERJİ Data Sources

Resource Flow	DATA SOURCE
CATEGORY 1 Emissions	
Gasoline Consumption	Invoices
Diesel Consumption	Invoices
Fire Extinguishers	Inventory List
Refrigerators	Inventory List
Air Conditioners	Inventory List
Electric water fountain	Inventory List
CATEGORY 2 Emissions	
Electricity Consumption	Invoices
Electricity Consumption	Plaza consumption report **Calculated based on the number of employees.*
CATEGORY 3 Emissions	
Employee Commuting	*Employee Transportation Survey *Calculated based on the number of employees.*
Business Travel	Invoices
CATEGORY 4 Emissions	
Purchased Goods	Invoices
Capital Goods	Invoices
Waste Consumption	Invoices **Calculated based on the number of employees.*
Waste Water Treatment	Considered equivalent to the amount of water consumed.
Waste Disposal	Waste declaration **Calculated based on the number of employees.*
Purchase of Services	Invoices

A greenhouse gas inventory was developed, followed by a materiality assessment. Emission sources with less than 1% impact on total emissions were classified as *insignificant sources*.

APPENDIX 2- GHG DATA SOURCES AND INVENTORY

Table 6 MARGUN ENERJİ Greenhouse Gas Emissions Inventory

Greenhouse Gas Emissions		SUM (tCO_2e)	Note
1.1	Direct emissions from stationary combustion	**0,00**	
1.2	Direct emissions from mobile combustion	**7,84**	
1.3	Emissions from industrial processes	**0,00**	
1.4	Direct fugitive emissions arise from the release of GHGs in anthropogenic systems	**0,01**	
1.5	Direct emissions and removals from land use, land use change and forestry	**0,00**	
2	**Indirect GHG emissions from imported energy**		
2.1	Indirect emissions from imported electricity	**1.295,33**	
2.2	Indirect emissions from imported energy	**20,00**	**I.S.**
3	**Indirect GHG emissions from transportation**		
3.1	Emissions from upstream transport and distribution for goods	**0,00**	**N.D.**
3.2	Emissions from downstream transport and distribution for goods	**0,00**	**N.D.**
3.3	Emissions from employee commuting	**36,48**	**I.S.**
3.4	Emissions from customer and visitor transport	**0,00**	**N.D.**
3.5	Emissions from business travels	**277,74**	
4	**Indirect GHG emissions from products used by the organization**		
4.1	Emissions from purchased goods	**5,11**	**I.S.**
4.2	Emissions from capital goods	**2.378,03**	
4.3	Emissions from solid and liquid waste	**1,17**	**I.S.**
4.4	Emissions from the use of assets	**0,00**	**N.D.**
4.5	Emissions from the use of services	**1.234,68**	
5	**Indirect GHG emissions associated with the use of products from organization**		
5.1	Emissions from the use stage of the product	**0,00**	**N.D.**
5.2	Emissions from downstream leased assets	**0,00**	**N.D.**
5.3	Emissions from end-of-life stage of the product	**0,00**	**N.D.**
5.4	Emissions from investments	**0,00**	**N.D.**
6	**Indirect GHG emissions from other sources**		
6.1	Emissions from other sources	**0,00**	**N.D.**

** I.S.: Insignificant source * N.D.: Not applicable / Not included*

AVERAGE CONSUMPTION

Due to operational challenges, direct access to consumption data in 2024, including metrics such as kilograms, cubic meters, and kilowatt-hours, was not possible. Consequently, emission calculations were based on financial data. Tracking energy performance metrics necessitated the review of invoices from January, June, and December. The determination of average prices was based on unit prices.

The appropriate VAT values were deducted from the service fees for the relevant period, and approximate consumption data was created based on the average unit consumption obtained. It is important to note that these data are based on average and approximate assumptions rather than direct measurements.

The approved allocation of resources is as follows — 1% water, 10% wastewater, 20% electricity, and 20% fuel tax.

SCOPE	SUBSIDIARY	CONSUMPTION SOURCE	AVERAGE CONSUMPTION	UNIT
SCOPE 1	NATUREL ENERJİ	Natural Gas	**3.085,45**	m^3
SCOPE 1	ESENBOGA ELEKTRİK	Natural Gas	**514,24**	m^3
SCOPE 1	MARGUN ENERJİ	Natural Gas	**10.725,61**	m^3
SCOPE 1	NATUREL ENERJİ	Gasoline	**53.505,0**	Liter
SCOPE 1	NATUREL ENERJİ	Diesel	**6.032,2**	Liter
SCOPE 1	ESENBOGA ELEKTRİK	Gasoline	**2.656,4**	Liter
SCOPE 1	ESENBOGA ELEKTRİK	Other Fuel	**2.014,2**	Liter
SCOPE 1	MARGUN ENERJİ	Gasoline	**2.182,9**	Liter
SCOPE 1	MARGUN ENERJİ	Other Fuel	**2.495,4**	Liter
SCOPE 2	NATUREL ENERJİ	Electricity	**136.746,54**	kWh
SCOPE 2	ESENBOGA ELEKTRİK	Electricity	**1.173,00**	kWh
SCOPE 2	MARGUN ENERJİ	Electricity	**1.661.325,88**	kWh
SCOPE 3	NATUREL ENERJİ	Water	**623,1**	m^3
SCOPE 3	ESENBOGA ELEKTRİK	Water	**103,8**	m^3
SCOPE 3	MARGUN ENERJİ	Water	**2.165,9**	m^3
SCOPE 1	***TOTAL***	***Natural Gas***	***14.325,31***	***m^3***
SCOPE 1	***TOTAL***	***Gasoline***	***58.344,4***	***Liter***
SCOPE 1	***TOTAL***	***Diesel***	***6.032,2***	***Liter***
SCOPE 1	***TOTAL***	***Other Fuel***	***4.509,6***	***Liter***
SCOPE 2	***TOTAL***	***Office Electricity***	***201.813,89***	***kWh***
SCOPE 2	***TOTAL***	***Power Plant Electricity***	***1.597.431,52***	***kWh***
SCOPE 3	***TOTAL***	***Water***	***2.892,8***	***m^3***

NOx emissions were calculated based on average fuel consumption obtained from invoices. The Companies do not have any chemicals or toxic materials such as VOC, SOx, PBT, PVC, etc, emitted by their operations. NOx emissions due to mobile combustion and flights were calculated as 1,245 tonNOx for Naten, 0,082 tonNOx for Magen and 0,077 tonNOX for Esen.

During the calculations, the EMEP/EEA Air Pollutant Emission Inventory Guide 2019, Table 3-6: Tier 1 emission factors for NOx and PM (including passenger cars, light commercial trucks, buses, and motorcycles) was used as a reference.