

INDOJEN

ENERJİ TEKNOLOJİLERİ
ENERGY TECHNOLOGIES

INSTITUTIONAL CARBON FOOTPRINT REPORT



2023

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SUSTAINABILITY SERVICES

1.INTRODUCTION

1.1 ABOUT INOGENE ENERGY

Inojen Energy Technologies is a neutral engineering and implementation company operating in the renewable energy sector with the mission of developing innovative projects and providing clients with the fastest and most effective field implementations. With over 500 interdisciplinary experts, the company enables investors to implement their projects efficiently and quickly.

While Inojen Energy's production, research and development, and management units are located in the Marmara region, it develops innovative systems with production capacity in various regions across the country. The company increases the energy efficiency of its power plants with specialized solar tracking systems and project-based engineering applications, solving supply-related problems and achieving the fastest installations. It identifies, manufactures, and implements the right products by creating customized engineering solutions for each investor and selected region. It also effectively implements production technologies, planning, design, logistics, assembly technologies, and commissioning.

For detailed information about Inojen Enerji , please visit [the company's website](#).
can be done.

1.2 ABOUT THE PROJECT

Inojen Enerji implemented a detailed calculation process within the framework of the ISO 14064-2018 standard and the GHG Protocol to determine the carbon footprint of its indirect and direct activities at its Niýde, Konya, Erzurum, and Yozgat facilities in 2023. These efforts culminated in a "Corporate Carbon Footprint Report" that highlights the company's commitment to sustainability.

Greenhouse Gas Protocol set by the GHG Protocol

The Greenhouse Gas Protocol Corporate Accounting and Reporting Standards (GPR) specifically include emissions from Scopes 1, 2, and 3, calculated under the Corporate Value Chain (Scope 3) standard. These emissions represent the greenhouse gas emissions resulting from a company's economic activities and comprehensively address the process of measuring and reporting its environmental impact. Through this reporting process, Inojen Enerji aims to transparently demonstrate its environmental performance and document the steps it has taken to achieve its sustainability goals.

1.3 PURPOSE and SCOPE

This report has conducted a detailed study to calculate and declare the greenhouse gas emissions resulting from Ynojen Enerji's operations in 2023. Corporate carbon footprint analysis will be an important tool in determining the company's climate change strategies, effectively managing these targets, planning climate-focused investments, submitting Carbon Disclosure Project (CDP) statements, and disclosing greenhouse gas emission indicators in sustainability reports.

Primary data provided by Ynojen Enerji covers the period evaluated within the scope of the study, 01.01.2023 - 31.12.2023. Secondary data includes IPCC, DEFRA conversion factors and Ecoinvent 3.8 Life Cycle

Calculations were carried out by obtaining data from sources such as the evaluation database.

The calculations were made within the framework of Scope 1, 2 and 3 and cover all direct and indirect activities of the company. Scope 1 emissions represent the company's direct impacts, such as stationary and mobile combustion, while Scope 2 emissions include impacts from purchased electricity and other energy sources. Scope 3 emissions also include indirect impacts, such as purchased raw materials, employee transportation, and business travel. This detailed analysis provides a scientific and comprehensive basis for the company's decisions to achieve its sustainability goals and reduce its environmental impact.

GHG PROTOCOL AND ISO 14064 STANDARD

Scope 1 - Category 1

- Direct Emissions

Scope 2 - Category 2

- Purchased Energy Indirect Emissions

Scope 3 - Category 3

- 04: Pre-Production Shipping and Distribution
- 05: Production Waste*
- 06: Business Travel
- 07: Employee
- Transportation 09: Post-Production Transportation and Distribution

Category 4

- 10: Transactions of Products Sold
- 11: Use of Products Sold
- 12: Disposal of Sold Products 13: Post-Production Leased Assets
- 14: Franchising
- 15: Investments

- 01: Purchased raw materials and services
- 02: Equity Assets
- 03: Fuel Related Activities 05: Production Waste 08: Pre-Production Leased Assets

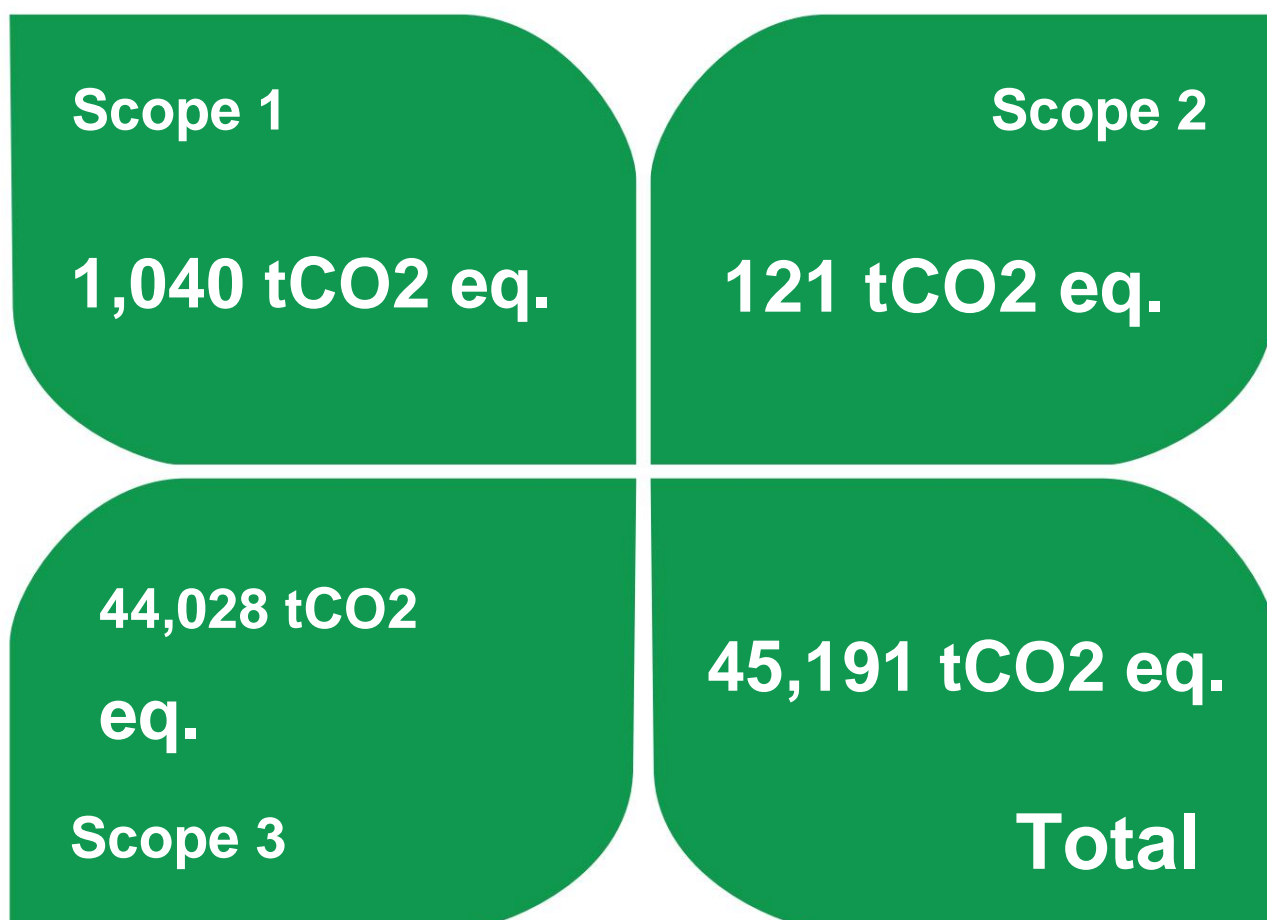
Category 5

*Waste Transportation (GHG-Protocol & ISO 14064 difference)

CORPORATE CARBON FOOTPRINT

4A carbon footprint is a measure of the environmental impact of greenhouse gases expressed in units of carbon dioxide equivalent. It is calculated by combining the impacts of different greenhouse gases, including carbon dioxide (CO₂), methane (CH₄), nitrogen oxide (NO₂), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).

In the calculation based on ynojen Enerji's activities for 2023, the functional unit used represents the company's activities. The emissions generated by these activities were calculated in detail. The overall results of these calculations are presented in the graph below.



CALCULATION SYSTEM LIMITS

Scope 1

Constant Burning

Emissions from fuels used in fixed equipment such as sand pits, generators, etc. used in energy production sites are calculated under this heading.

Moving Combustion

Emissions resulting from fuel consumption of leased and owned vehicles under company control are calculated under this heading.

Scope 2

Purchased Electricity

Emissions resulting from electricity consumption at energy production sites are calculated under this heading.

Scope 3

1. Purchased Raw
Materials and
Services

Under this heading, the impacts arising from the materials purchased by Inojen Enerji as raw materials in 2023 were calculated, and market prices were used for products with incomplete invoices.

2. Fixed Assets
Assets

Emissions originating from fixed assets acquired by the company during the accounting year have been calculated.

Scope 3 - Continued

3. Fuel-related Activities	Emissions from the well to the pump for each fuel consumed are calculated under this heading.
4. Pre-Production Shipping	Emissions resulting from the transportation of purchased raw materials to electrical energy production facilities were taken into account.
5. Production Waste	Emissions from the disposal of panels and other electronic components used for electricity generation and infrastructure were calculated.
6. Business Travel	In the reporting year, emissions arising from business travel and accommodation carried out by personnel registered with ynojen Enerji were calculated under this heading.
7. Employee Transportation	Emissions from employee shuttle transportation to and from the company and construction sites were calculated. Fuel consumption from employee shuttles was taken into account. Emissions from transportation by employees arriving in personal vehicles were also calculated within this scope.
11. Products Usage	It was calculated by taking into account the emissions and water consumption due to cleaning of the installed panels.

CORPORATE CARBON FOOTPRINT

RESULTS

Inojen Energy's corporate carbon footprint for 2023

According to calculations, the company's total carbon emissions are 45,191,018 kg CO₂ equivalent. 1,040 tons of this emission

In Scope 1 (direct emissions), 121,420 kg CO₂

equivalent in Scope 2 (energy production and consumption)

indirect emissions), and the vast majority of which are 44,028,667 kg CO₂ equivalent is included in 3 (indirect emissions).

In a detailed analysis, the percentages of total emissions are as follows:

Scope 1 emissions are 2.3 percent, Scope 2

emissions are 0.3 percent, and Scope 3 emissions are 97.4 percent

This data is determined as the company's carbon footprint profile.

to understand in detail and sustainability strategies more

an important reference for developing effectively

provides.

SCOPE	VALUE, KGCO ₂ EQ.	%
SCOPE 1	1,049,936.5	2.3%
SCOPE 2	121,420	0.27%
SCOPE 3	44,028,667, 31	97.43%
SCOPE 1 & 2	1,162,356.5	2.57%
KASPAM 1 & 2 & 3	45,191,018.82	100%

In Scope 1 carbon footprint calculations, stationary combustion and mobile combustion were identified as the main components of Inojen Enerji's total carbon emissions. Stationary combustion accounts for 32,368 kg of carbon equivalent emissions, primarily from fuels used in stationary equipment such as sand pits, generators, and other equipment used on construction sites. These emissions are directly related to energy production at the company's facilities and the operation of Priority Goals' stationary equipment. Meanwhile, 1,008,567 kg of carbon equivalent emissions identified under mobile combustion come from fuel consumption in vehicles used during the company's daily operations and transport.

Scope 2 carbon footprint calculations focus on the electricity consumption at Inojen Enerji's construction sites in Konya, Yozgat, Erzurum, and Niğde, as well as at its prefabricated office in Gebze and headquarters in Atayehir. In this context, the local amount of energy the company procures from electricity providers was calculated in detail. Because the electricity needs at the Yozgat and Erzurum construction sites are provided within Organized Industrial Zones, but billing information is unavailable, an average consumption figure was calculated based on installed capacity. The total carbon equivalent footprint for this scope was determined to be 121,420 kg, but this figure represents only 0.3% of the total carbon footprint.

Inojen Enerji's 2023 carbon footprint report highlights the significant inside weight of Scope 3 emissions in overall emissions. With a total of 44,182,451.10 kg of CO₂ equivalent, this category accounts for 97 percent of the company's total carbon emissions. This significant proportion is broken down into various subcategories and detailed. Market prices were used to calculate the missing fixed asset and product costs in Scope 3 calculations.

Use of Products Sold: With 30,945,074.78 kg of CO₂ equivalent, it represents a large part of total emissions, reaching up to 70 percent.

Goods and Services Supplied: 8,803,844.56 kg CO₂ equivalent with accounting for 20 percent of total emissions.

Fuel & Energy Activity: At 273,226 kg CO₂ equivalent, it constitutes a small percentage of total emissions.

Fixed assets: At 162,500.00 kg CO₂ equivalent, they represent a smaller portion of emissions.

Pre-Production Transportation & Distribution: With 2,766,245.68 kg of CO₂ equivalent, it accounts for 6 percent of total emissions.

Disposal of Sold Products: Represents a smaller percentage of emissions, at 194,266.91 kg CO₂ equivalent.

Business travel: With 854,569 kg of CO₂ equivalent, it accounts for 2 percent of total emissions.

Employee Shuttles: At 28,934.82 kg CO₂ equivalent, they represent a smaller percentage of emissions.

This detailed breakdown will help identify areas where a company's activities contribute to higher carbon emissions and take strategic action. The following two tables list the results of the Corporate Carbon Footprint Calculation according to the GHG Protocol and ISO 14064.

INGENIOUS ENERGY

YEAR 2023

GHG RESULTS

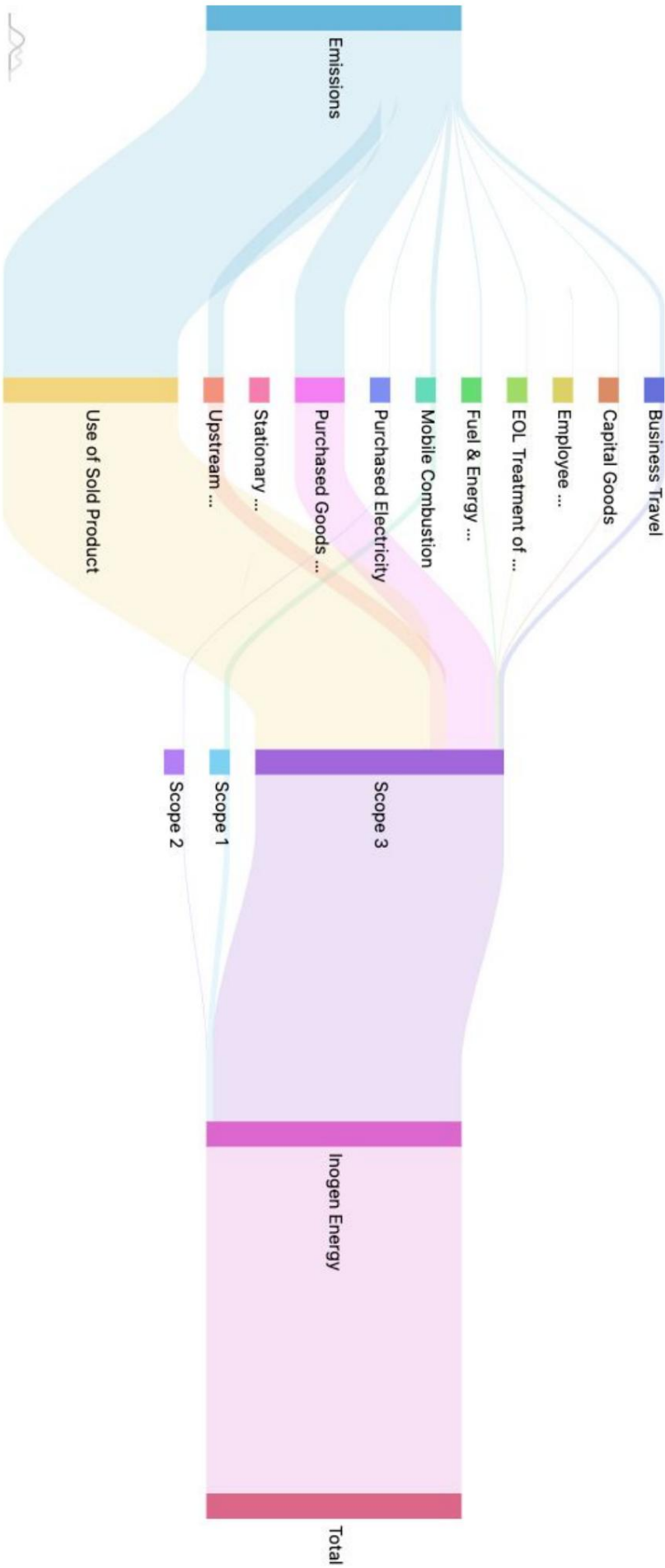
ACTIVITIES	SCOPE	VALUE, KG CO2 EQ.	%
STABLE BURNING	SCOPE 1	32,368.8	0.07%
MOVING COMBUSTION	SCOPE 1	1,008,567.7	2.23%
ELECTRICITY CONSUMPTION	SCOPE 2	121,420	0.27%
RAW MATERIALS	SCOPE 3	8,803,844.6	19.48%
FIXTURE	SCOPE 3	162,500	0.36%
FUEL-BASED	SCOPE 3	273,226	0.60%
TRANSPORTATION	SCOPE 3	2,766,245.7	6.12%
WASTE	SCOPE 3	194,266.9	0.43%
BUSINESS TRAVEL	SCOPE 3	854,569.5	1.89%
EMPLOYEE TRANSPORTATION	SCOPE 3	28,934.8	0.06%
DUE TO USE	SCOPE 3	30,945,074.8	68.48%

INGENIOUS ENERGY

YEAR 2023

ISO 14064 RESULTS

ACTIVITIES	SCOPE	VALUE, KG CO2 EQ.	%
STABLE BURNING	CATEGORY 1	32,368.8	0.07%
MOVING COMBUSTION	CATEGORY 1	1,008,567.7	2.23%
ELECTRICITY CONSUMPTION	CATEGORY 2	121,420	0.27%
TRANSPORTATION	CATEGORY 3	2,766,245.7	6.12%
BUSINESS TRAVEL	CATEGORY 3	854,569.5	1.89%
EMPLOYEE TRANSPORTATION	CATEGORY 3	28,934.8	0.06%
RAW MATERIALS	CATEGORY 4	8,803,844.6	19.48%
FIXTURE	CATEGORY 4	162,500	0.36%
FUEL-BASED	CATEGORY 4	273,226	0.60%
WASTE	CATEGORY 5	194,266.9	0.43%
DUE TO USE	CATEGORY 5	30,945,074.8	68.48%



Level of Uncertainty

The uncertainty level calculation aims to quantify the uncertainties in relevant variables by providing a technical contribution to decision-makers . In this context, an uncertainty calculation was conducted for 2023 within the scope of the study. The total uncertainty rate for Scope 1 and Scope 2 was determined to be 5%, which was classified as "High." Similarly, the cumulative uncertainty value for Scope 1, Scope 2, and Scope 3 was also calculated as 5%. In this context, it was observed that the study operated within reasonable confidence levels.

The uncertainty matrix was used to calculate the uncertainty level, and the matrix and evaluation criteria are presented in detail in the table below. In this calculation process, the data acquisition method and its associated uncertainty value (%) and the emission factor acquisition method and its associated uncertainty value (%) were selected to determine the percentage uncertainty values. The uncertainty value higher than these values was used to determine the uncertainty value (%). This systematic approach stands out as an effort to obtain reliable results in calculating the uncertainty level.

HOT SPOT ANALYSIS AND RESULT

Hot Spot Analysis helps focus a company's carbon emissions by categories identifying with the the highest Priority Goals emissions in carbon footprint calculations . Looking at Inojen Enerji's 2023 Corporate Carbon Footprint calculation, we see that hot spots are tied to Scope 3 emissions.

The energy and water consumption required for cleaning and maintenance of PV panels used in solar power plants during the 20-year lifespan is considered to constitute a significant portion of total carbon emissions, amounting to 68.48 percent.

The supply of panels and installation materials required for the construction of solar power plants is the second important factor, covering 19.48 percent of total emissions.

The transportation of these materials to the solar power plant site is the third-largest carbon emission driver within Scope 3. The vast majority of shipments are domestic and are carried out by road. Therefore, it's expected that emissions from product shipments rank third among all carbon footprint emissions.

A detailed assessment of hotspots is important for developing sustainable practices in the electrical energy production sector and determining carbon footprint reduction strategies.

CONCLUSION

Inojen's carbon footprint calculations and assessments will provide valuable guidance for the company's future management and investment plans, Priority Goals, to combat climate change and achieve its sustainability goals. The results will be a valuable resource for understanding the company's environmental impact, developing strategies to reduce emissions, and strengthen sustainable business practices.

Based on the results of these comprehensive calculations, Inojen Enerji is expected to take more effective steps to combat climate change and set concrete targets to reduce its carbon footprint. The company can shape its future investments, operations, and projects accordingly.

Furthermore, these assessments are likely to strengthen the company's sustainability strategies, support investments in green technology, and foster transparency with its stakeholders. Decisions made by Inojen Enerji based on this information and analysis will contribute to both its leadership in reducing its environmental impact and ensuring long-term business sustainability.

DISCLAIMER

This report was prepared by SÜRATAM Sustainability Consulting Inc., and all data, interpretations, and assessments were generated using information and data obtained from Inojen Enerji as of the report's preparation date. It should be noted that these statements do not constitute investment consulting and do not constitute any investment advice, trading recommendations, or promises of return.

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