Greenhouse Gases Emission Report, 2025

Electronic Instrumentation & Control Pvt. Ltd.

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About the Report

Electronic Instrumentation & Control Pvt. Ltd. is committed to be responsible for our environment and started working on Green House Gases emissions accounting and reporting within the organization starting from 2025. This is our first effort to publish a GHG emission report. We are gaining knowledge day by day for various protocols available on GHG and our employees are committed to follow the requirements, thus demonstrating its status as a global benchmark in its commitment to transparency and its defence of a sustainable growth model that respects the environment.

We publish this report in order to describe the Greenhouse Gas Inventory and to transparently inform its stakeholders of the company's emissions, in accordance with the commitments assumed in our environmental policies, which constitute the response to climate change goals and purposes and preservation of the environment, while at the same time contributing to identifying and taking advantage of the opportunities arising from the energy and ecological transition:

This report contains our greenhouse gas (GHG) inventory for the year 2025, in line with the company's decarbonisation goals.

The report adheres to internationally recognized standards, including ISO 14064-1 for organizational-level GHG quantification. Emission factors are sourced from the IPCC Fifth Assessment Report, and GWP values are applied consistently across all categories. Data quality checks, third-party verification, and internal audits ensure the credibility and reliability of reported figures. The methodology section outlines assumptions, exclusions, and uncertainties, enabling stakeholders to interpret the data with confidence and clarity.

Mr. Paryant K. Buch - Director

About Us

Electronic Instrumentation & Control Pvt Ltd (EIC) is an engineering and manufacturing company engaged in the design, engineering, and supply of control panels and complete control system solutions. Its core activities include system engineering, panel manufacturing, testing, and commissioning of customized automation solutions. EIC's product range includes PLC, DCS, MCC, PCC, VFD, relay logic panels, and industrial voltage stabilizers. The company serves the chemical, petrochemical, oil & gas, and power generation industries. EIC operates from its manufacturing facility at Changodar, Ahmedabad, and has executed projects across India and overseas.

Scope of the Report

The scope of this GHG emission report is to systematically identify, quantify, and document the greenhouse gas emissions generated through our company's operations and related activities. This includes direct emissions from fuel combustion and process-related sources, as well as indirect emissions from purchased electricity and other energy inputs. By establishing a clear baseline of our emissions profile, we aim to enhance transparency, support regulatory compliance, and align with global sustainability frameworks. The measurement process is designed not only to track current emissions but also to inform strategic decisions that will help us control and reduce our environmental impact over time.

This report specifically encompasses **Scope 1 emissions** (direct emissions from owned or controlled sources), **Scope 2 emissions** (indirect emissions from the generation of purchased electricity), and **limited Scope 3 emissions**, which include selected categories such as upstream transportation, business travel, or waste disposal depending on the availability of reliable data and cooperation from relevant stakeholders. The inclusion of Scope 3 is currently constrained by data access and verification challenges, but efforts are ongoing to expand coverage in future reporting cycles. Through this initiative, we reaffirm our commitment to long-term climate action, operational efficiency, and responsible corporate citizenship.

Reference Standards

In determination of GHG emissions and to prepare this report we have used GHG protocols and standards available but mainly we followed below standards : -

Greenhouse Gas Protocol developed by WRI & WBCSD. www.ghgprotocol.org

ISO 14064-1 : 2018	Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.

Types of GHG Emissions

Sr. No.	Scope	Category	Description	Examples
1	Scope 1	Direct	Sources that are owned or controlled by the Electronic Instrumentation & Control Pvt. Ltd.	Vehicles, Fire Extinguishers
2	Scope 2	Indirect	Purchased Electricity Consumed by ELECTRONIC INSTRUMENTATION & CONTROL PVT. LTD.	Electricity we purchased
3	Scope 3	Indirect	Consequence of activities of the entity that occur from sources not owned or controlled by the entity. Upstream activities from All Suppliers to ELECTRONIC INSTRUMENTATION & CONTROL PVT. LTD. and Downstream Activities from ELECTRONIC INSTRUMENTATION & CONTROL PVT. LTD. to Our Buyers (Customers).	Transportation of vehicles for purchase of goods and distribution of goods. Employee Commute. Business Travels.

Methodology Used

1 Define Organization Boundary

2 Define Reporting Boundary

3 Define Approach

4 Determine GHG Inventory

5 Define Reporting Period

6 Estimate Activity data

7 Determine Emissions Factor

8 Determine GWP

9 Estimate GHG Emissions

10 Reporting & Publication

Organization Boundary

	Electronic Instrumentation & Control Pvt. Ltd.

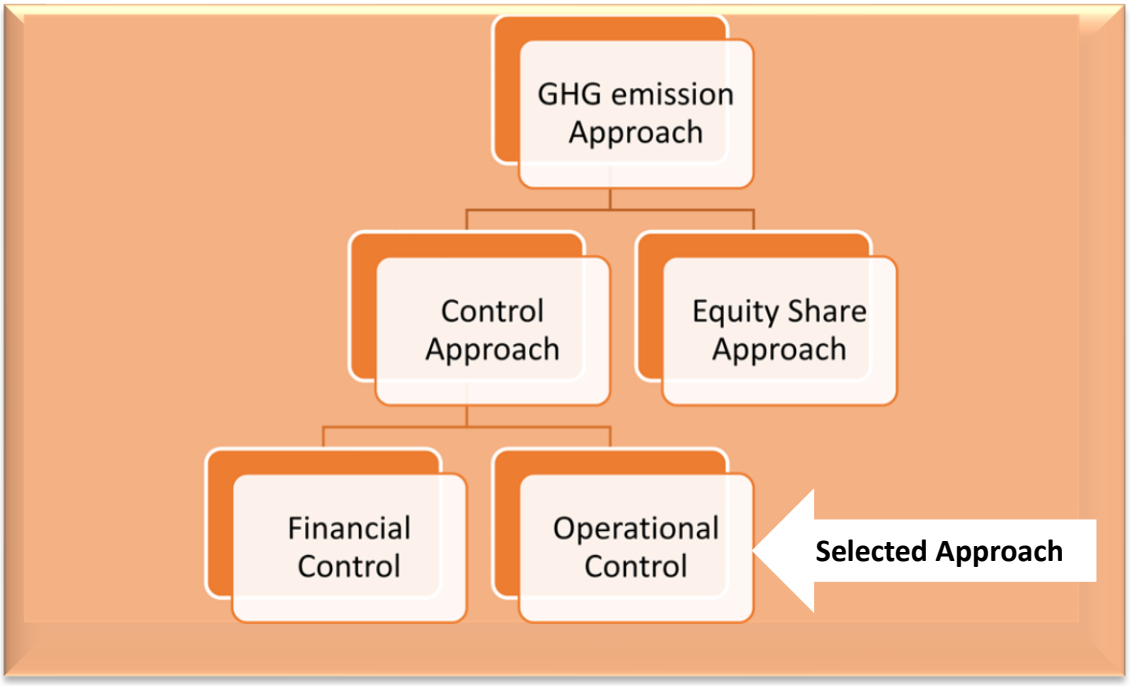
Reporting Boundary

	Electronic Instrumentation & Control Pvt. Ltd. Plot no. 56, Panchratna Industrial Estate, Changodar Industrial Area, Sarkhej-Bavla Road, Changodar, Taluka: Sanand, Ahmedabad, Gujarat, India - 382213.

Reporting Period

For this report reporting period is from 01-01-2025 to 31-12-2025.

Approach for GHG Inventory



We have used operational control approach to determine the organizational inventory boundary under which we have included all sources of emissions which are under our full operational control.

Determination of Inventory & Frequency

ELECTRONIC INSTRUMENTATION & CONTROL PVT. LTD. has determined below inventory for the purpose of estimation of GHG within its operational control and based on availability of data. We have last updated our inventory in March-2025. We are updating our inventory once in a year and now next review will be in March-2026.

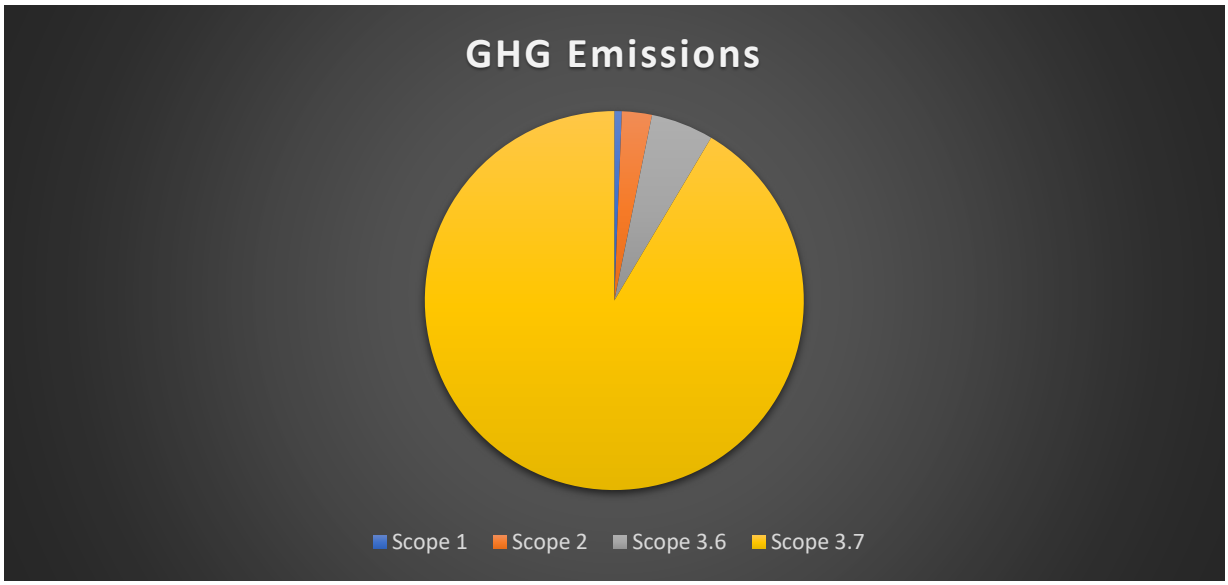
GHG Inventory

Type of Source Activity	Type of Source	Type of GHG Emission
Four Wheelers (Owned)	Direct	Scope 1
Purchased Electricity	Indirect	Scope 2
Fire Extinguishers	Direct	Scope 1
Business Travels	Indirect	Scope 3
Employee Commute	Indirect	Scope 3

Estimation of GHG Emissions- 2025

Category	Type	Sources	tCO2e
Scope 1	Direct	Vehicles & Fire Extinguishers	8.76
Scope 2 LB*	Indirect	Purchased Electricity	35.32
Scope 3.6	Indirect	Business Travel	73.60
Scope 3.7	Indirect	Employee Commuting	1260.21
Total Scope 3	Indirect	3.6 & 3.7	1333.81
Total GHG Emissions			**1377.88**

LB = Location Based



Emission Factors

Source / Fuel Type	Emission Factor	Reference
Petrol	2.29 $KgCO_2$/Litre	GHG Protocol & IPCC
Diesel	2.91 $KgCO_2$/Litre	GHG Protocol & IPCC
Electricity – Location Based	0.727 $KgCO_2$/KWH	Central Electricity Authority

GHG Reduction Target for next year

Category	Current Emission tCO2e	Reduction Target	Next Review
Scope 1	8.76	5%	December – 2026
Scope 2 LB	35.32	5%	December – 2026
Scope 3.6	73.60	5%	December – 2026
Scope 3.7	1260.21	5%	December – 2026

Expanded Targets of GHG reductions

Organization is aiming to reduce combined scope 1 & scope2 emissions by minimum of 10% by December-2027. Also aiming to calculate all upstream emission in 2026 and reduce upstream emissions by 5% to 7% by December-2027.

GHG Reduction Initiatives for the next year

- Avoid single occupant vehicles, arrange shared vehicles whenever possible.
- Arrange for staff vehicles for group of employees from same area
- Check for Electric Vehicles
- Implement high energy efficiency assets into the factory
- Reduce energy waste during non-productive timings
- Go with remote online meetings whenever possible to reduce business travels
- Check the possibility for Solar Panels at factory building
- Plant more and more trees near factory building

Assumptions & Sources of Data

1. Electricity Consumption Bills. For December-25 we have taken our professional judgement based on previous consumption bills.
2. Fuel purchase Bills
3. Internal records of Fire Extinguishers Refilling
4. Internal records of Air Conditioners Refilling
5. Internal records of PNG used in Boiler
6. Internal records of business travels of employees
7. Internal records of employee commuting transportation
8 Employee Commuting Travel by Personal Vehicles
9. Data available in public domains for public transports
10. Emission factor for KWH is sourced from Central Electricity Authority, Ministry of

Power, Government of India Co2 baseline database user guide version 19.0 December, 2023.

11. Emission Factor for Fuel (Diesel) is sourced from GHG Protocol last modified in March-2024. For Refrigerant used UK.com government data and available data on internet.
12. All GHG values are calculated using 100-year GWP values from IPCC AR6.
13. T&D loss for electricity is not considered due to unavailability of authenticate data.

Quality Assurance

The greenhouse gas (GHG) emissions disclosed in this report have been calculated using internationally recognized methodologies and protocols, including the **GHG Protocol Corporate Accounting and Reporting Standard** and relevant **ISO 14064 guidelines**.

- **Data Sources**
  - ❖ Activity data were obtained from verified internal records such as fuel consumption logs, electricity bills, production volumes, and procurement data.
  - ❖ Emission factors were sourced from authoritative databases including the **Intergovernmental Panel on Climate Change (IPCC)**, **national grid emission factors**, and other peer-reviewed or government-published references.
  - ❖ Where primary data were unavailable, conservative estimates and industry benchmarks were applied, with assumptions clearly documented.
- **Calculation Methodology**
  - ❖ Emissions were categorized into **Scope 1 (direct), Scope 2 (indirect from purchased energy), and selected Scope 3 (other indirect emissions)** in accordance with the GHG Protocol.
  - ❖ All calculations were subject to internal review and cross-checking to ensure accuracy, consistency, and completeness.
  - ❖ Any material changes in methodology or data sources compared to previous reporting years have been disclosed.
- **Quality Assurance Process**
  - ❖ Data collection and calculation procedures were reviewed by the Sustainability and Compliance team to ensure adherence to company policies and international standards.
  - ❖ Independent verification of selected datasets was conducted to validate accuracy and reliability.

- ❖ Controls were implemented to minimize errors, including reconciliation of energy and material balances, and periodic audits of source data.

- **Assurance Commitment**
  The organization is committed to continuous improvement in data quality and transparency. Future reports will incorporate enhanced monitoring systems, updated emission factors, and third-party assurance where applicable.

Statements of Limiting Conditions

- **Scope 3 Coverage**
  The Scope 3 emissions disclosed in this report are limited to categories where reasonably available data could be obtained. Due to the complexity and breadth of upstream and downstream value chain activities, not all Scope 3 categories have been fully quantified. The reported figures therefore represent a partial estimate and may not capture the full extent of indirect emissions.

- **Upstream Data Availability**
  Accurate and reliable upstream emissions data from suppliers and contractors were not consistently available. In such cases, industry-average emission factors, proxy datasets, or conservative estimates were applied. These limitations may affect the precision of reported upstream emissions.

- **Transportation Distance Assumptions**
  For upstream transportation and distribution, distances of travel were estimated based on typical supply chain routes, regional averages, or assumed point-to-point distances where actual logistics data were unavailable. These assumptions introduce uncertainty into the calculated emissions, particularly for multi-modal or international transport.

- **Downstream Data Gaps**
  Data for downstream transportation and distribution of products to customers were not available at the time of reporting. As a result, downstream transportation emissions have not been included in this year's inventory. The organization is committed to improving data collection mechanisms to address this gap in future reporting cycles.

Assurance Commitment

The organization recognizes these limitations and has disclosed them to ensure transparency. Efforts are ongoing to:

- Engage suppliers and logistics partners for more accurate upstream and downstream data.
- Implement improved tracking systems for transportation distances and modes.
- Expand Scope 3 coverage progressively in line with international reporting standards.

Executive Summary

The 2025 Greenhouse Gas (GHG) Emission Report provides a transparent and comprehensive overview of Electronic Instrumentation & Control Pvt. Ltd.'s carbon footprint for the reporting year 1st January 2025 to 31st December 2025. This report quantifies emissions across Scope 1 (direct emissions), Scope 2 (purchased electricity), and selected Scope 3 categories (business travel and employee commuting) in accordance with the GHG Protocol and ISO 14064-1:2018 standards.

For the reporting year, we have recorded **total GHG emissions of 1377.88 tCO_2e**, comprising:

- **Scope 1:** 8.76 tCO_2e
- **Scope 2:** 35.32 tCO_2e
- **Scope 3 (selected 3.6 & 3.7) :** 1333.81 tCO_2e

Scope 1 emissions were primarily driven by fuel consumption in vehicles. Scope 2 emissions reflect electricity consumption at the manufacturing site, while Scope 3 emissions resulted largely from employee commuting and business travel.

We are committed to continuous improvement in climate performance and has set an initial target to reduce Scope 1, Scope 2, and selected Scope 3 emissions by **5% in the next reporting cycle**, with ongoing efforts to align long-term goals with national climate commitments and emerging global standards. Planned initiatives include energy-efficiency enhancements, integration of renewable energy, optimization of mobility patterns, and adoption of low-carbon technologies. The company also aims to progressively expand the coverage of Scope 3 emissions as supplier data availability improves.

This GHG report reinforces our dedication to operational transparency, responsible manufacturing practices, and long-term environmental stewardship. By strengthening data quality, expanding the emissions inventory, and integrating sustainability into core business functions, we strive to meet stakeholder expectations while contributing meaningfully to climate action.