Woory Automotives India Pvt. Ltd.

A1B, MMDA Industrial Complex, Maraimalai Nagar,
Chengalpattu District-603209, Tamilnadu, India.

GHG EMISSION REPORT

Form No	**: WRI/ESG/F-34**
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1. Executive Summary

Overview of Organization and Reporting Period

WRI is an India-based manufacturing company specializing in the production and assembly of automotive air-conditioning components, including Heater Control Panels, Actuators, Field Coils, PTC units, and FETE components. The organization supports the automotive industry by delivering high-quality, reliable components aligned with industry standards and sustainability practices. This GHG emissions report covers the reporting period from **1st April 2024 to 31st March 2025**, reflecting WRI's commitment to environmental responsibility and transparent disclosure under ESG and international reporting frameworks.

Key Emission Results

Organizational Boundary

Woory Automotives India Pvt. Ltd.

A1B, MMDA Industrial Complex, Maraimalai Nagar, Chengalpattu Dist-603209, Tamilnadu, India.

Calculation period: April 2024 to March 2025

All values are in MT CO2 e

GHG Emission Reporting Frequency: Annually

Scope	Emissions (tCO_2e)
Scope 1	84.36
Scope 2	513.6
Scope 3	674.31
Scope 3 Upstream	472.02
Scope 3 Downstream	202.29
Total	**1,272.27**

Highlights & Reduction Achievements

- Scope 2 emissions dominate (~40%), indicating high electricity dependency.
- Scope 3 emissions are significant (~53%), driven by supply chain and logistics.
- Initial ESG integration framework established.
- Identification of key emission hotspots for reduction planning.

2. Introduction

Purpose of the Report

To quantify, monitor, and disclose GHG emissions in accordance with ISO 14064-1 and GHG Protocol.

Intended Users

- Internal management
- Customers (OEM automotive clients)
- ESG rating agencies
- Regulators and auditors

Reporting Objectives

- ESG compliance and disclosure
- Customer requirement (automotive supply chain)
- Voluntary sustainability reporting

3. Organization Description

Company Profile

WRI operates in the automotive component manufacturing sector with a focus on precision assembly and electrical components.

Organizational Structure

- Production
- Quality
- Maintenance
- Supply Chain
- EHS & ESG Management

Operations, Facilities, and Boundaries

- Manufacturing plant in India
- Assembly lines for HVAC automotive components
- Warehousing and logistics operations

4. Reporting Boundary

Organizational Boundary

Operational Control Approach adopted.

Operational Boundary

Includes all Scope 1, Scope 2, and relevant Scope 3 emissions.

Entities and Locations Covered

- Main manufacturing facility
- Associated warehousing and logistics operations

5. Reporting Period

- **Start Date:** 01 April 2024
- **End Date:** 31 March 2025
- **Frequency:** Annual reporting

6. GHG Accounting Methodology

Standards Followed

- ISO 14064-1:2018
- GHG Protocol Corporate Standard

Calculation Approach

Emissions = Activity Data × Emission Factor

Tools Used

- Excel-based calculation tools
- Standard emission factor databases

7. Emission Sources Identification

Direct Sources

- Diesel for DG sets
- Fuel use in company vehicles
- Refrigerant leakage

Indirect Sources

- Purchased electricity
- Raw materials procurement
- Logistics and waste disposal

8. GHG Scope Classification

8.1 Scope 1 – Direct Emissions (84.36 tCO_2e)

- Stationary combustion: Diesel generator
- Mobile combustion: Company vehicles
- Fugitive emissions: Refrigerants (HVAC testing)
- Process emissions: Not significant

8.2 Scope 2 – Indirect Energy Emissions (513.60 tCO_2e)

- Purchased electricity (major contributor)
- No purchased steam/heat

8.3 Scope 3 – Other Indirect Emissions (674.31 tCO_2e)

Upstream (472.02 tCO_2e)

- Raw materials (metals, electronics)
- Supplier manufacturing emissions
- Transportation of materials

Downstream (202.29 tCO_2e)

- Product distribution
- End-of-life disposal
- Customer usage (limited impact assumed)

9. GHG Data Collection & Quality

Data Sources

- Utility bills
- Fuel purchase records
- Production data
- Logistics records

Data Quality

- Moderate to high reliability
- Some estimates used for Scope 3

Controls

- Monthly tracking
- Cross-verification with finance and operations

10. Emission Factors

Sources

- IPCC Guidelines
- DEFRA Database
- India Grid Emission Factor (CEA)

Units

- Electricity: kgCO_2e/kWh
- Diesel: kgCO_2e/litre
- Transport: kgCO_2e/ton-km

11. Calculation Results

11.1 Total GHG Emissions

Scope	Emissions (tCO_2e)
Scope 1	84.36
Scope 2	513.6
Scope 3	**674.31**
Scope 3 Upstream	472.02
Scope 3 Downstream	202.29
Total	**1,272.27**

Gas-wise Breakup (Scope 1)

- CO_2: ~95%
- CH_4: ~3%
- N_2O: ~2%

11.2 Emission Breakdown by Source

- Electricity consumption – largest contributor
- Purchased materials – second largest
- Transportation & logistics – significant contributor
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11.3 Emission Intensity Indicators (Assumed)

Indicator	Value
tCO_2e per employee	351
tCO_2e per ton of production	0.85
tCO_2e per unit (component basis)	0.002

12. Base Year & Trend Analysis

Base Year

FY 2024–25 (first reporting year)

Future Comparison

Will be used as baseline for future reduction tracking.

13. Uncertainty Assessment

Sources of Uncertainty

- Scope 3 estimations
- Emission factor variability

Method Used

- Industry average assumptions
- Data validation checks

Confidence Level

Moderate (±10–15%)

14. Data Quality Assessment

Parameter	Rating
Activity Data	High
Emission Factors	High
Scope 3 Data	Medium

Validation Methods

- Internal audits
- Cross-functional verification

15. GHG Reduction Initiatives

Energy Efficiency

- LED lighting
- Efficient motors
- Preventive maintenance

Renewable Energy

- Planned solar installation

Waste Reduction

- Scrap recycling
- Packaging optimization

Future Goals

- Reduce Scope 2 emissions by 30% by 2030
- Engage suppliers for Scope 3 reduction

16. Conclusions

The total GHG emissions for the reporting period are 1,272.27 tCO_2e, with electricity consumption and supply chain activities identified as the major contributors. Key opportunities for improvement include adopting renewable energy sources, strengthening supplier engagement, and implementing energy efficiency upgrades. In the next reporting period, WRI plans to enhance Scope 3 data accuracy, implement a structured carbon reduction roadmap, and consider third-party verification to improve transparency, credibility, and alignment with international standards and ESG commitments.