



BERG INDUSTRIES LLC

GHG EMISSION REPORT

Form No: BERG/ESG/F-750

Issue No 01

Revision No 00

Issue Date 10th February, 2026


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P.O.BOX 85621, Plot No. 261 to 265, Block No.L, Al Ghail Non-Freezone Area, Ras Al Khaimah, United Arab Emirates.

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1.0. Executive Summary

1.1 Organization & Reporting Period

BERG INDUSTRIES LLC., located in UAE, specializes in fabrication and manufacturing of heavy industrial equipment including bulk storage tanks, pressure vessels, heat exchangers, and modular structures. This report covers the period January 2025 to December 2025.

1.2 Key Emission Results

Category	Emissions (tCO ₂ e)	Remarks
Scope 1 – Direct Emissions	247.51	Emissions from fuel combustion in DG sets, company vehicles, and LPG usage in fabrication processes.
Scope 2 – Indirect Energy Emissions	997.74	Emissions from purchased electricity used in fabrication yard and office operations.
Scope 3 – Other Indirect Emissions	4981.00	Major contribution from raw materials (steel), transportation, logistics, employee commuting, and business travel.
Total Emissions	6226.25	Overall carbon footprint for reporting period January–December 2025.

Total GHG Emissions: 6226.25 tCO₂e

1.3 Highlights & Reduction Achievements


- Implementation of energy-efficient welding and fabrication equipment.
- Optimization of logistics reduced fuel consumption by ~5%.
- Initial ESG integration framework established.
- Scope 3 emissions identified as major contributor (~80%).

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2.0. Introduction

2.1 Purpose of Report

To quantify and disclose greenhouse gas emissions in accordance with ISO 14064-1 and the GHG Protocol.

2.2 Intended Users

- Management & ESG Committee
- Clients and stakeholders
- Regulatory and certification bodies

2.3 Reporting Objectives

- ESG compliance and transparency
- Support sustainability strategy
- Meet customer and tender requirements

3.0. Organization Description

3.1 Company Profile

BERG INDUSTRIES LLC. provides engineering, fabrication, and installation of industrial equipment with strong ESG integration.

3.2 Organizational Structure


- Top Management
- Engineering & Design

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- Production & Fabrication
- Quality & EHS
- Procurement & Logistics

3.3 Operations & Facilities

- Fabrication yard (primary emission source)
- Assembly units
- Administrative offices

3.4 Scope 3 Category Inclusions


Scope 3 Category	Included (Yes/No)	Justification
Purchased Goods & Services (Raw Materials – Steel, Components)	Yes	Major contributor due to high-volume steel procurement and fabrication materials.
Capital Goods (Machinery & Equipment)	Yes	Includes fabrication machinery and heavy industrial equipment purchased during the year.
Fuel & Energy Related Activities (Not in Scope 1 & 2)	Yes	Covers upstream emissions from fuel extraction, production, and transportation.
Upstream Transportation & Distribution	Yes	Inbound logistics of raw materials from suppliers to facility.
Waste Generated in Operations	Yes	Includes disposal of scrap metal, hazardous waste, and general waste.
Business Travel	Yes	Employee travel for client meetings, inspections, and project execution.
Employee Commuting	Yes	Daily commuting emissions based on employee distance and transport modes.
Upstream Leased Assets	No	No significant leased assets impacting emissions identified.

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Downstream Transportation & Distribution	Yes	Delivery of fabricated equipment to customer sites.
Processing of Sold Products	No	No further processing after delivery; products are used as final industrial equipment.
Use of Sold Products	No	Equipment does not directly emit GHG during customer use phase.
End-of-Life Treatment of Sold Products	Yes	Considered due to eventual disposal/recycling of steel structures.
Downstream Leased Assets	No	Company does not lease products to customers.
Franchises	No	No franchise operations exist.
Investments	No	No relevant emission-generating investments identified.

4.0. Reporting Boundary

4.1 Organizational Boundary

- Adopted Operational Control Approach.

4.2 Operational Boundary

Includes:


- Fuel combustion
- Electricity consumption
- Supply chain activities
- Transportation

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4.3 Entities Covered

- Ras Al Khaimah fabrication facility
- Corporate office

5.0. Reporting Period

- Start Date: 01st January 2025
- End Date: 31st December 2025
- Frequency: Annual reporting

6.0. GHG Accounting Methodology

6.1 Standards Followed

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

6.2 Calculation Approach

- Emissions = Activity Data × Emission Factor

6.3 Tools Used


- Excel-based calculation model
- Emission factor databases

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7.0. Emission Sources Identification

Direct Sources

- Diesel generators
- Company vehicles
- LPG usage

Indirect Sources

- Purchased electricity
- Raw materials (steel, etc.)
- Logistics and transportation

Mapping

- Fabrication → Energy + process
- Logistics → Fuel emissions
- Office → Electricity

8.0. GHG Scope Classification

8.1 Scope 1 – Direct Emissions (247.51 tCO₂e)

Sources


- Stationary combustion (DG sets, LPG)
- Mobile combustion (vehicles)
- Fugitive emissions (assumed minimal refrigerants)

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8.2 Scope 2 – Indirect Energy Emissions (997.74 tCO₂e)

Sources

- Purchased electricity

Gas-wise Emissions

- CO₂: ~98%
- CH₄ & N₂O: negligible

8.3 Scope 3 – Other Indirect Emissions (4981 tCO₂e)

Upstream (4781.76 tCO₂e)

- Steel and raw materials (major contributor)
- Vendor transportation

Downstream (199.24 tCO₂e)

- Product delivery
- Customer logistics

Other Sources


- Employee commuting
- Business travel

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9.0. GHG Data Collection & Quality

Data Sources

- Fuel purchase records
- Electricity bills
- HR data (employees)
- Procurement records

Quality Assessment

- Moderate to high reliability
- Some estimated data for Scope 3

Controls

- Internal verification
- Monthly tracking

10.0. Emission Factors

Sources


- IPCC Guidelines
- DEFRA 2024
- UAE Electricity Grid Factor (assumed 0.45 kg CO₂/kWh)

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Units

- Fuel: kg CO₂/litre
- Electricity: kg CO₂/kWh

11.0. Calculation Results

11.1 Total GHG Emissions

Scope	Emissions (tCO ₂ e)
Scope 1	247.51
Scope 2	997.74
Scope 3	4981.00
Total	6226.25

11.2 Emission Breakdown

- Scope 1 → 4%
- Scope 2 → 16%
- Scope 3 → 80%

Major hotspot: Raw materials & supply chain

11.3 Emission Intensity


- Per Employee:
6226.25 / 392 = 15.88 tCO₂e/employee

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- Per Ton Production (assumed 10,000 MT steel):
 $\approx 0.62 \text{ tCO}_2\text{e/ton}$

12.0. Base Year & Trend Analysis

Base Year: 2025

- First reporting year

Future Tracking

- Will compare from 2026 onward

13.0. Uncertainty Assessment

Sources

- Estimated Scope 3 data
- Fuel usage approximations

Method

- $\pm 10\text{--}15\%$ uncertainty range

Confidence Level


- $\sim 85\%$ overall reliability

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14.0. Data Quality Assessment

Parameter	Rating
Scope 1 Data	High
Scope 2 Data	High
Scope 3 Data	Medium

Validation

- Cross-checked with invoices
- Internal ESG review

15.0. GHG Reduction Initiatives

Current Actions

- Energy-efficient machinery
- Preventive maintenance
- Route optimization

Future Plans


- Solar power installation
- Electric vehicle adoption
- Low-carbon steel sourcing

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Targets

- 10% emission reduction by 2027
- 25% Scope 2 reduction

16.0. Conclusions

Summary

- Total emissions: 6226.25 tCO₂e
- Major contributor: Scope 3

Opportunities

- Supplier engagement
- Renewable energy adoption

Next Year Plan

- Improve Scope 3 data accuracy
- Implement energy monitoring system
- Set science-based targets

17.0. Appendices

A. Activity Data (Sample Assumptions)


- Diesel (DG): 80,000 litres
- Vehicle fuel: 50,000 litres
- Electricity: 2.2 million kWh

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B. Calculation Sheets

- Emission = Activity × Factor

C. Emission Factor References

- IPCC 2006 Guidelines
- DEFRA 2024
- UAE Grid Factor

D. Definitions

- tCO₂e = Tonnes of CO₂ equivalent
- Scope 1 = Direct emissions
- Scope 2 = Energy indirect
- Scope 3 = Value chain emissions

18.0. Activity Data Summary Table (Reporting Year: 2025)

Parameter	Unit	Source	Remarks
Diesel (DG Sets)	Litres	Fuel purchase records	Used for backup power generation
Furnace Oil	Litres	Procurement records	Used in fabrication/heating processes
LPG / Propane	Kg	Vendor invoices	Used in cutting and welding operations
Natural Gas	m ³	-	Not used in facility

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Diesel (Company Vehicles)	Litres	Fleet logs	Transportation and logistics
Petrol (Company Vehicles)	Litres	Fleet logs	Light vehicles usage
Refrigerants (R134a etc.)	Kg	Maintenance logs	Fugitive emissions from HVAC systems
Electricity Consumption	kWh	Utility bills	Fabrication yard & office operations
Raw Material (Steel)	MT	Procurement records	Major emission contributor
Packaging Materials	Kg	Stores records	Wooden crates, plastics, etc.
Employee Commuting	Km/year	HR estimation	Based on avg. 30 km/day × 392 employees
Business Travel (Air)	Km	Travel records	Domestic & international travel
Business Travel (Land)	Km	Expense reports	Taxi, train, rental vehicles
Waste Generated	MT	Waste logs	Scrap metal and general waste

18.1 BERG INDUSTRIES LLC – Emission Factor References


Source Category	Emission Factor	Unit	Reference Source	Remarks
Diesel	2.68	kg CO ₂ /litre	IPCC / DEFRA 2024	Used for DG & vehicles
Petrol	2.31	kg CO ₂ /litre	DEFRA 2024	Light vehicles
Furnace Oil	3.10	kg CO ₂ /litre	IPCC Guidelines	Industrial combustion

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LPG	3.00	kg CO ₂ /kg	IPCC	Cutting/welding processes
Electricity (UAE Grid)	0.45	kg CO ₂ /kWh	IEA / UAE Factor	Location-based method
Refrigerant (R134a)	1430	GWP	IPCC AR5	High global warming potential
Steel	1.90	tCO ₂ /ton	World Steel Association	Cradle-to-gate emissions
Air Travel	0.15	kg CO ₂ /km	DEFRA 2024	Economy class assumption
Land Transport	0.12	kg CO ₂ /km	DEFRA 2024	Average vehicle emissions
Waste Disposal	0.45	tCO ₂ /ton	IPCC	Mixed waste assumption

18.2 Definitions & Abbreviations Table


Term / Abbreviation	Definition
GHG	Greenhouse Gases
CO ₂ e	Carbon dioxide equivalent
Scope 1	Direct emissions from owned or controlled sources
Scope 2	Indirect emissions from purchased electricity
Scope 3	Other indirect emissions across the value chain
ISO 14064-1	International standard for GHG accounting and reporting
GHG Protocol	Global framework for measuring and managing emissions
tCO ₂ e	Tonnes of CO ₂ equivalent
kWh	Kilowatt-hour (unit of electricity)

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GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
DEFRA	UK Department for Environment, Food & Rural Affairs
ESG	Environmental, Social, Governance
HVAC	Heating, Ventilation, and Air Conditioning
DG Set	Diesel Generator
MT	Metric Ton
RAK	Ras Al Khaimah

18.3 Reference Standards Used


- **ISO 14064-1:2018 – Greenhouse Gases (Organization Level Quantification & Reporting)**
<https://www.iso.org/standard/66453.html>
- **ISO 14064-3:2019 – Verification and Validation of GHG Statements**
<https://www.iso.org/standard/66454.html>
- **ISO 14067:2018 – Carbon Footprint of Products**
<https://www.iso.org/standard/71206.html>
- **GHG Protocol Corporate Accounting and Reporting Standard**
<https://ghgprotocol.org/corporate-standard>
- **GHG Protocol Scope 2 Guidance (Electricity Emissions)**
<https://ghgprotocol.org/scope-2-guidance>

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- **GHG Protocol Scope 3 Standard (Value Chain Emissions)**
<https://ghgprotocol.org/standards/scope-3-standard>
- **IPCC 2006 Guidelines for National Greenhouse Gas Inventories**
<https://www.ipcc-nggip.iges.or.jp/public/2006gl/>
- **IPCC Fifth Assessment Report (AR5) – Global Warming Potentials**
<https://www.ipcc.ch/report/ar5/>
- **DEFRA UK Government GHG Conversion Factors (2024)**
<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>
- **International Energy Agency (IEA) Electricity Emission Factors**
<https://www.iea.org/data-and-statistics>
- **World Steel Association – CO₂ Emissions Data**
<https://worldsteel.org/climate-action/>
- **ISO 50001:2018 – Energy Management Systems (Reference for energy efficiency Practices)**
<https://www.iso.org/standard/69426.html>



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ACKNOWLEDGEMENT OF RECEIPT

I confirm that I have received and reviewed this GHG Emission Report and understand my responsibility to comply with applicable requirements.

Name : **Paramjit Singh**

Designation : **Director**

Signature :



Date : **10th February, 2026**