

# AL KHALEEJ STEEL INDUSTRIES L.L.C.

Plot No. 61NR29, ICAD-III, P.O. Box 91380, Abu Dhabi, United Arab Emirates.

## GHG EMISSION REPORT

Doc No : AKSI/ESG/D-240

Issue No : 01

Rev No : 00

Date : 10<sup>th</sup> June, 2025





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### 1. Overview of GHG Performance

AKSI operates in steel wire manufacturing with products including galvanized wire, cold drawn steel wire, annealed wire, PVC coated wire, hot dip galvanized wire, and chain link fencing. The company has integrated ESG principles into its operational and governance framework and established its 2024 baseline greenhouse gas inventory aligned with the GHG Protocol.

### 1. Executive Summary

#### Overview of Organization and Reporting Period

Al Khaleej Steel Industries L.L.C. (AKSI) is a UAE-based manufacturing company engaged in the production of Cold Drawn Steel Wire, Annealed Wire, Galvanized Wire, Hot Dip Galvanized Wire, PVC Coated Wire, and Chain Link Fence products. AKSI integrates Environmental, Social, and Governance (ESG) principles into its business operations and sustainability strategy.

This Greenhouse Gas (GHG) Emission Report has been prepared for the reporting period from 1 January 2024 to 31 December 2024 in alignment with ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

#### Key Emission Results

Scope	Emissions (tCO <sub>2</sub> e)
Scope 1 – Direct Emissions	4,454.91
Scope 2 – Indirect Energy Emissions	1,979.91
Scope 3 – Other Indirect Emissions	77,709.52
<b>Total Carbon Footprint</b>	<b>84,144.34 tCO<sub>2</sub>e</b>

#### Highlights & Reduction Achievements

- Continued ESG integration across manufacturing operations.
- Optimization of energy consumption in wire drawing and galvanizing processes.
- Improved operational efficiency through preventive maintenance.
- Monitoring of logistics and transportation emissions initiated.
- Increased awareness among employees regarding energy conservation practices.
- Identification of future renewable energy opportunities.



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## GHG EMISSION REPORT

## 2. Introduction

### Purpose of the Report

The purpose of this report is to quantify, monitor, and disclose AKSI's greenhouse gas emissions and support climate-related sustainability initiatives.

### Intended Users

- Customers
- Investors
- Regulatory authorities
- ESG rating agencies
- Supply chain partners
- Internal management

### Reporting Objectives

- Compliance with international GHG accounting standards.
- Voluntary sustainability disclosure.
- Customer and stakeholder requirements.
- Support for ESG reporting and climate strategy development.

## 3. GHG EMISSIONS SUMMARY

### 3.1 Organizational Boundaries

#### AL KHALEEJ STEEL INDUSTRIES L.L.C.

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### 3.2 Reporting Boundary & Scope Definition

Reporting Boundary & Scope Definition	Category	Description	Typical Sources	Examples (AKSI)
Scope 1	Direct Emissions	Emissions from owned or controlled sources	Fuel combustion, vehicles, refrigerants	DG sets, company vehicles, LPG usage



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Scope 2	Indirect Energy Emissions	Emissions from purchased electricity	Grid electricity consumption	Electricity used in production and offices
Scope 3	Other Indirect Emissions	Value chain emissions	Raw materials, logistics, waste, commuting	Steel wire rod procurement, transportation

#### 3.3 Scope 3 Category Inclusion Table

Scope 3 Category	Included	Remarks
Purchased Goods & Services	Yes	Steel wire rod and packaging materials
Capital Goods	No	Insignificant during reporting year
Fuel & Energy Related Activities	Yes	Upstream electricity and fuel activities
Upstream Transportation & Distribution	Yes	Supplier transportation
Waste Generated in Operations	Yes	Scrap and disposal activities
Business Travel	Yes	Employee travel for business purposes
Employee Commuting	Yes	Daily commuting emissions
Downstream Transportation	Yes	Delivery of finished products
Use of Sold Products	No	Minimal emissions during use phase
End-of-Life Treatment of Sold Products	Yes	Metal disposal and recycling impacts

### 3. Organization Description

#### Company Profile

Parameter	Details
Company Name	Al Khaleej Steel Industries L.L.C.
Location	Plot No. 61NR29, ICAD-III, Abu Dhabi, UAE
Industry	Steel Wire Manufacturing
Products	Cold Drawn Steel Wire, Annealed Wire, Galvanized Wire, HDG Wire, PVC Coated Wire, Chain Link Fence
Employees	217



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#### Organizational Structure

AKSI operates through:

- Manufacturing Department
- Quality Control
- Maintenance
- Logistics
- Procurement
- Sales & Marketing
- EHS & ESG Management

#### Operations, Facilities, and Boundaries

The reporting boundary includes:

- Manufacturing facility at ICAD-III
- Administrative offices
- Company-controlled utilities and operations
- Transportation activities under operational control

#### 4. Reporting Boundary

##### Organizational Boundary

###### AL KHALEEJ STEEL INDUSTRIES L.L.C.

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##### Operational Boundary

##### Included Emissions

- Fuel combustion
- Purchased electricity
- Transportation activities
- Employee commuting
- Raw material transportation
- Waste disposal



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#### Entities and Locations Covered

- AKSI Main Manufacturing Facility – Abu Dhabi, UAE

#### 5. Reporting Period

Item	Details
Reporting Start Date	01 January 2024
Reporting End Date	31 December 2024
Reporting Frequency	Annual

#### 6. GHG Accounting Methodology

##### Standards Followed

- ISO 14064-1:2018
- GHG Protocol Corporate Standard
- IPCC Guidelines
- DEFRA Emission Factors

##### Calculation Approach

GHG emissions were calculated using:

**GHG Emissions = Activity Data × Emission Factor**

##### Tools or Software Used

- Microsoft Excel-based emission calculation tools
- Internal energy and utility records
- Utility invoices and fuel logs

#### 7. Emission Sources Identification

##### Direct and Indirect Emission Sources

Source	Scope
Diesel for DG Sets	Scope 1
LPG / Furnace Fuel	Scope 1
Company Vehicles	Scope 1



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Refrigerants	Scope 1
Purchased Electricity	Scope 2
Raw Material Procurement	Scope 3
Transportation & Logistics	Scope 3
Employee Commuting	Scope 3
Waste Disposal	Scope 3
Business Travel	Scope 3

#### Mapping of Emission Sources

Emission sources were mapped across:

- Production lines
- Utilities
- Warehousing
- Logistics operations
- Administrative activities

#### 8. GHG Scope Classification

##### 8.1 Scope 1 – Direct Emissions

##### Included Sources

- Stationary combustion (DG sets, furnaces)
- Mobile combustion (company vehicles)
- Fugitive emissions (HVAC refrigerants)

##### Scope 1 Emissions

Source	Estimated Emissions (tCO <sub>2</sub> e)
DG Diesel Consumption	2,340
Furnace Fuel Combustion	1,520
Company Vehicles	510
Refrigerant Leakage	84.91
<b>Total Scope 1</b>	<b>4,454.91</b>



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#### Gas-wise Contribution

Gas	Contribution
CO <sub>2</sub>	96.3%
CH <sub>4</sub>	2%
N <sub>2</sub> O	2%

#### 8.2 Scope 2 – Indirect Energy Emissions

##### Purchased Electricity

Electricity consumed from the UAE national grid was included.

##### Scope 2 Emissions

Source	Emissions (tCO <sub>2</sub> e)
Purchased Electricity	1,979.91

#### Gas-wise Contribution

Gas	Contribution
CO <sub>2</sub>	99%
CH <sub>4</sub>	<1%
N <sub>2</sub> O	<1%

#### 8.3 Scope 3 – Other Indirect Emissions

##### Included Categories

- Purchased raw materials
- Transportation and logistics
- Waste disposal
- Employee commuting
- Product distribution



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#### Scope 3 Emissions

Category	Emissions (tCO <sub>2</sub> e)
Raw Material Procurement	58,000
Transportation & Logistics	14,500
Employee Commuting	650
Waste Disposal	420
Product Distribution	4,139.52
<b>Total Scope 3</b>	<b>77,709.52</b>

#### Gas-wise Contribution

Gas	Contribution
CO <sub>2</sub>	98%
CH <sub>4</sub>	1%
N <sub>2</sub> O	1%

### 9. GHG Data Collection & Quality

#### Data Sources & Collection Methods

- Electricity bills
- Fuel purchase invoices
- Production records
- Vehicle fuel logs
- Transport records
- Employee information

#### Accuracy, Completeness, and Reliability

The data used in this inventory is considered reasonably accurate and complete based on available operational records.

#### Data Management Procedures & Controls

- Cross-verification of utility records
- Review by management and ESG team
- Centralized documentation system
- Annual data review process



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### GHG EMISSION REPORT

## 10. Emission Factors

### Sources of Emission Factors

- IPCC 2006 Guidelines
- DEFRA 2024 Emission Factors
- IEA Electricity Grid Factors
- GHG Protocol Databases

### Units and Justification

Activity	Unit
Diesel Consumption	kgCO <sub>2</sub> e/Litre
Electricity	kgCO <sub>2</sub> e/kWh
Transportation	kgCO <sub>2</sub> e/ton-km
Refrigerants	kgCO <sub>2</sub> e/kg

## 11. Calculation Results

### 11.1 Total GHG Emissions

Scope	Emissions (tCO <sub>2</sub> e)
Scope 1	4,454.91
Scope 2	1,979.91
Scope 3	77,709.52
<b>Total</b>	<b>84,144.34</b>

### 11.2 Emission Breakdown by Source

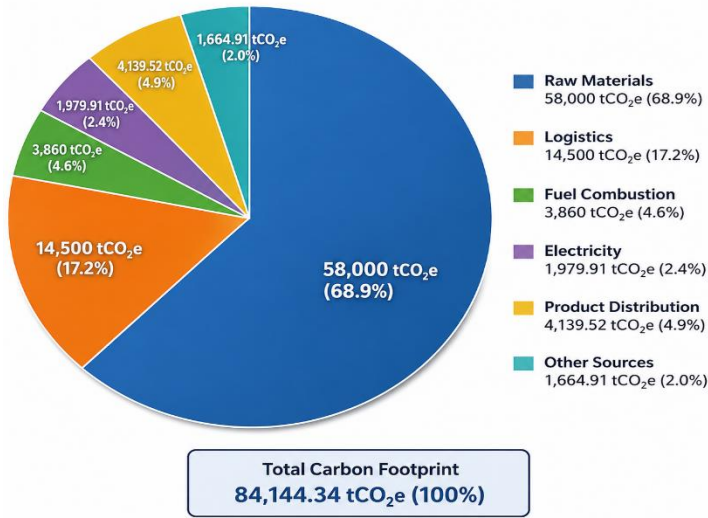
Emission Source	tCO <sub>2</sub> e	Contribution
Raw Materials	58,000	68.9%
Logistics	14,500	17.2%
Fuel Combustion	3,860	4.6%
Electricity	1,979.91	2.4%
Product Distribution	4,139.52	4.9%
Other Sources	1,664.91	2.0%

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## GHG EMISSION REPORT

**GHG Emission Breakdown by Source**  
(tCO<sub>2</sub>e and Contribution %)



### 11.3 Emission Intensity Indicators

#### Employee-Based Intensity

Emission Intensity per Employee = Total Number of Employees / Total GHG Emissions (tCO<sub>2</sub>e)

#### Calculation

Parameter	Value
Total GHG Emissions	84,144.34 tCO <sub>2</sub> e
Total Employees	217
Emission Intensity per Employee	387.76 tCO <sub>2</sub> e/employee

### 12. Base Year & Trend Analysis

#### Base Year Selection

AKSI selected 2024 as the baseline year because it represents stable operational conditions.



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#### Historical Comparison

2024 emissions indicate:

- Increased transparency in Scope 3 accounting.
- Improved monitoring of operational emissions.

#### Adjustments for Organizational Changes

No major organizational or structural changes occurred during the reporting year.

### 13. Uncertainty Assessment

#### Sources of Uncertainty

- Estimation of transportation distances
- Assumed emission factors
- Supplier-provided activity data
- Refrigerant leakage estimates

#### Method Used

Industry-standard emission estimation methodologies and conservative assumptions were applied.

#### Confidence Level

- Estimated confidence level:  $\pm 8-12\%$

### 14. Data Quality Assessment

Parameter	Quality Rating
Electricity Data	High
Fuel Data	High
Transportation Data	Medium
Employee Commuting Data	Medium
Waste Data	Medium

#### Cross-Checks & Validation

- Invoice reconciliation
- Utility bill verification



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- Internal ESG review
- Consistency checks

## 15. GHG Reduction Initiatives

### Energy Efficiency Programs

- High-efficiency motors and drives
- Preventive maintenance
- Lighting optimization

### Waste & Water Reduction Measures

- Scrap recycling initiatives
- Reduction of packaging waste
- Water conservation awareness

### Future Sustainability Goals

- Install rooftop solar systems
- Reduce Scope 2 emissions by 15% by 2030
- Improve logistics optimization
- Increase recycled material utilization

## 16. Conclusions

AKSI has established a structured greenhouse gas accounting framework aligned with international standards.

Scope 3 emissions remain the largest contributor, highlighting opportunities for supply chain engagement and logistics optimization.

The organization plans to improve primary data collection, increase operational efficiency and evaluate renewable energy integration in future reporting periods.

## Successes & Opportunities

### Successes

- Strong ESG integration
- Structured GHG accounting approach
- Improved operational efficiency



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### Opportunities

- Renewable energy adoption
- Supplier engagement
- Green logistics implementation
- Decarbonization roadmap development

### Plan for Next Reporting Period

- Improve primary activity data collection
- Expand Scope 3 category coverage
- Introduce renewable energy projects
- Conduct third-party verification

## 17. Appendices

### Appendix A – Activity Data Tables

Emission Source	Activity Data	Unit	Emissions (tCO <sub>2</sub> e)
Diesel for DG Sets	1,020,000	Litres	2,733.60
LPG Consumption	185,000	Kg	551.30
Company Vehicles Diesel	365,000	Litres	978.20
Refrigerant Top-ups	95	Kg	198.41
Purchased Electricity	4,950,000	kWh	1,979.91
Steel Wire Rod	95,000	MT	57,000
Zinc & Coating Materials	2,500	MT	1,000
PVC Materials	800	MT	1,000
Raw Material Transport	18,500,000	Ton-km	10,175
Supplier Deliveries	7,000,000	Ton-km	4,325
Finished Goods Distribution	8,625,000	Ton-km	4,139.52
Employee Commuting	2,450,000	Passenger-km	857.50
Waste Disposal	690	MT	607.80
Business Travel	425,000	Passenger-km	214.61
<b>Total Carbon Footprint</b>			<b>84,144.34</b>



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### Appendix B – Calculation Sheets

Scope	Emission Source	Calculation Formula	Emission Factor Applied	Emissions (tCO <sub>2</sub> e)
Scope 1	Diesel for DG Sets	Diesel Consumption × EF	2.68 kg CO <sub>2</sub> e/Litre	2,733.60
Scope 1	LPG Consumption	LPG Quantity × EF	2.98 kg CO <sub>2</sub> e/Kg	551.30
Scope 1	Company Vehicles	Fuel Consumption × EF	2.68 kg CO <sub>2</sub> e/Litre	978.20
Scope 1	Refrigerant Leakage	Refrigerant Quantity × GWP	2,088 kg CO <sub>2</sub> e/Kg	198.41
Scope 2	Purchased Electricity	Electricity Consumption × Grid EF	0.40 kg CO <sub>2</sub> e/kWh	1,979.91
Scope 3	Steel Wire Rod Procurement	Quantity Purchased × EF	0.60 tCO <sub>2</sub> e/MT	57,000
Scope 3	Zinc & Coating Materials	Quantity Purchased × EF	0.40 tCO <sub>2</sub> e/MT	1,000
Scope 3	PVC Materials	Quantity Purchased × EF	1.25 tCO <sub>2</sub> e/MT	1,000
Scope 3	Raw Material Logistics	Ton-km × EF	0.00055 tCO <sub>2</sub> e/Ton-km	10,175
Scope 3	Supplier Deliveries	Ton-km × EF	0.00062 tCO <sub>2</sub> e/Ton-km	4,325
Scope 3	Product Distribution	Ton-km × EF	0.00048 tCO <sub>2</sub> e/Ton-km	4,139.52
Scope 3	Employee Commuting	Passenger-km × EF	0.00035 tCO <sub>2</sub> e/Passenger-km	857.50
Scope 3	Waste Disposal	Waste Quantity × EF	Average Disposal EF	607.80
Scope 3	Business Travel	Passenger-km × EF	0.00047 tCO <sub>2</sub> e/Passenger-km	214.61
	<b>Total Carbon Footprint</b>			<b>84,144.34</b>

### Appendix C – Emission Factor References

Emission Source	Emission Factor	Unit	Reference Standard / Source
Diesel Combustion	2.68	kg CO <sub>2</sub> e/Litre	IPCC 2006 Guidelines
LPG Consumption	2.98	kg CO <sub>2</sub> e/Kg	DEFRA 2024
Petrol/Diesel Vehicles	2.68	kg CO <sub>2</sub> e/Litre	DEFRA 2024
Refrigerant R410A	2,088	kg CO <sub>2</sub> e/Kg	IPCC AR6 GWP Values



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UAE Grid Electricity	0.40	kg CO <sub>2</sub> e/kWh	UAE National Grid Factor
Steel Wire Rod	0.60	tCO <sub>2</sub> e/MT	World Steel Association
Zinc & Coating Materials	0.40	tCO <sub>2</sub> e/MT	Ecoinvent Database
PVC Materials	1.25	tCO <sub>2</sub> e/MT	DEFRA / Ecoinvent
Road Freight Transport	0.00055	tCO <sub>2</sub> e/Ton-km	DEFRA Freight Factors
Supplier Deliveries	0.00062	tCO <sub>2</sub> e/Ton-km	DEFRA 2024
Product Distribution	0.00048	tCO <sub>2</sub> e/Ton-km	GHG Protocol Transport Tool
Employee Commuting	0.00035	tCO <sub>2</sub> e/Passenger-km	DEFRA Passenger Transport
Waste Disposal	Variable	tCO <sub>2</sub> e/MT Waste	IPCC Waste Model
Business Air Travel	0.00047	tCO <sub>2</sub> e/Passenger-km	ICAO / DEFRA Aviation Factors

#### Appendix D – Definitions & Abbreviations

Abbreviation / Term	Definition
GHG	Greenhouse Gas
CO <sub>2</sub>	Carbon Dioxide
CH <sub>4</sub>	Methane
N <sub>2</sub> O	Nitrous Oxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
tCO <sub>2</sub> e	Tonnes of Carbon Dioxide Equivalent
ISO	International Organization for Standardization
ISO 14064-1	International standard for GHG quantification and reporting
ESG	Environmental, Social and Governance
Scope 1	Direct emissions from owned or controlled sources
Scope 2	Indirect emissions from purchased electricity
Scope 3	Other indirect emissions from value chain activities
IPCC	Intergovernmental Panel on Climate Change



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DEFRA	Department for Environment, Food & Rural Affairs (UK)
GWP	Global Warming Potential
EF	Emission Factor
DG Set	Diesel Generator Set
HVAC	Heating, Ventilation and Air Conditioning
kWh	Kilowatt-hour
MT	Metric Ton
Ton-km	Ton transported over one kilometre
Passenger-km	Passenger transported over one kilometre
UAE Grid Factor	Emission factor for UAE electricity grid
Activity Data	Measured quantity used to calculate emissions
Operational Control	Reporting approach based on operational authority
Carbon Footprint	Total GHG emissions caused directly and indirectly
Inventory Boundary	Organizational and operational limits of reporting
Fugitive Emissions	Unintentional release of gases such as refrigerants
Stationary Combustion	Fuel combustion from fixed equipment
Mobile Combustion	Fuel combustion from vehicles
Renewable Energy	Energy generated from sustainable natural resources

### Reference Standards Used

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

<https://www.iso.org/standard/66453.html>

GHG Protocol Corporate Accounting and Reporting Standard

<https://ghgprotocol.org/corporate-standard>

IPCC 2006 Guidelines for National Greenhouse Gas Inventories

<https://www.ipcc-nggip.iges.or.jp/public/2006gl/>



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IPCC Sixth Assessment Report (AR6) – Global Warming Potentials

<https://www.ipcc.ch/assessment-report/ar6/>

DEFRA UK Government GHG Conversion Factors for Company Reporting

<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

UAE National Greenhouse Gas Inventory Report

<https://unfccc.int/documents/267686>

World Steel Association – Steel’s Contribution to a Low Carbon Future

<https://worldsteel.org/climate-action/>

ICAO Carbon Emissions Calculator Methodology

<https://www.icao.int/environmental-protection/CarbonOffset/Pages/default.aspx>

Ecoinvent Database

<https://ecoinvent.org/>

ISO 14067 – Carbon Footprint of Products

<https://www.iso.org/standard/71206.html>

## 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 : Krishna Babu

Signature : 

Designation : HR

Date : 10<sup>TH</sup> June, 2025