GREENHOUSE FOODSTUFF TRADING L.L.C.

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GHG EMISSION REPORT

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1. EXECUTIVE SUMMARY

1.1 Overview of the Organization and Reporting Period

Greenhouse Foodstuff Trading L.L.C. (GHFST) is a leading UAE-based organization engaged in the trading and distribution of food products and professional chef equipment. The company supplies restaurants, hotels, catering companies, supermarkets, food processors, and institutional customers across the United Arab Emirates while maintaining high standards of food safety, operational excellence, and environmental stewardship.

GHFST integrates Environmental, Social, and Governance (ESG) principles into its business operations and recognizes climate change mitigation as an essential component of sustainable business growth. Through responsible procurement, efficient warehousing, optimized logistics, and continual environmental improvement, the organization seeks to minimize its greenhouse gas (GHG) emissions while delivering high-quality products and services.

This Greenhouse Gas (GHG) Emission Report presents the corporate greenhouse gas inventory for the reporting period **1 January 2025 to 31 December 2025**. The inventory has been prepared in accordance with **ISO 14064-1:2018** and the **GHG Protocol Corporate Accounting and Reporting Standard**, adopting the **Operational Control Approach** for defining organizational boundaries.

The report establishes GHFST's first comprehensive corporate carbon footprint baseline and provides the foundation for future emission reduction initiatives, ESG reporting, customer sustainability requirements, and continual environmental performance improvement.

1.2 Key Emission Results

The organizational GHG inventory includes direct emissions (Scope 1), indirect energy emissions (Scope 2 – Location-based and Market-based), and other indirect value chain emissions (Scope 3).

Scope	Emissions (tCO_2e)	Contribution
Scope 1 – Direct Emissions	453.93	10.27%
Scope 2 – Location-based	497.60	11.25%
Scope 2 – Market-based	0.00	0.00%
Scope 3 – Other Indirect Emissions	3,470.76	78.48%
Total Corporate Carbon Footprint	**4,422.29**	**100%**

The principal contributors to the organization's greenhouse gas emissions are:

- Purchased food products and chef equipment across the supply chain.
- Transportation and logistics activities for inbound and outbound deliveries.
- Purchased electricity consumed within offices, warehouses, and distribution facilities.

- Diesel consumption by company delivery vehicles.
- Employee commuting.
- Waste generated from warehousing, packaging materials, cardboard, plastics, and food handling activities.

The inventory indicates that Scope 3 emissions represent the largest proportion of the organization's carbon footprint, highlighting the importance of supplier engagement, sustainable procurement, and logistics optimization.

1.3 Highlights and Reduction Achievements

During the reporting year, GHFST strengthened its Environmental, Social, and Governance (ESG) framework by integrating greenhouse gas management into operational planning and business decision-making.

Key achievements during the reporting period include:

- Completion of the organization's first corporate greenhouse gas inventory in accordance with ISO 14064-1:2018 and the GHG Protocol.
- Identification of significant Scope 1, Scope 2, and Scope 3 emission sources across trading, warehousing, transportation, and distribution operations.
- Implementation of preventive maintenance programs for delivery vehicles to improve fuel efficiency.
- Increased adoption of energy-efficient LED lighting within offices and warehouse facilities.
- Enhanced waste segregation and recycling practices for cardboard, plastic, and wooden pallet waste.
- Promotion of digital documentation to reduce paper consumption.
- Optimization of logistics planning to reduce unnecessary transportation distances and fuel consumption.
- Integration of ESG considerations into procurement decisions and supplier engagement.
- Establishment of the corporate GHG baseline for monitoring future emission reductions.
- Development of a long-term carbon reduction roadmap supporting continual environmental improvement and sustainable business growth.

2. INTRODUCTION

2.1 Purpose of the Report

The purpose of this Greenhouse Gas (GHG) Emission Report is to quantify, document, and communicate the greenhouse gas emissions generated by Greenhouse Foodstuff Trading L.L.C. (GHFST) during the reporting period 1 January 2025 to 31 December 2025. This report has been prepared in accordance with the requirements of ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard to establish a transparent and consistent organizational greenhouse gas inventory.

The report provides a comprehensive assessment of direct and indirect greenhouse gas emissions associated with the company's trading and distribution activities, including fuel consumption, purchased electricity, logistics, warehousing, employee commuting, procurement, and other value chain activities.

The inventory establishes GHFST's organizational carbon footprint baseline, identifies major emission sources, supports strategic decision-making, and enables the company to monitor future emission reduction initiatives. The report also demonstrates GHFST's commitment to climate change mitigation, environmental stewardship, ESG integration, and continual improvement of environmental performance.

Furthermore, the report supports customer sustainability requirements, enhances organizational transparency, and provides a reliable foundation for future third-party verification and climate-related reporting.

2.2 Intended Users

This report has been prepared for both internal and external stakeholders who require reliable greenhouse gas information for decision-making, compliance, sustainability reporting, and ESG evaluation.

The intended users include:

- Board of Directors
- Managing Director
- Senior Management
- ESG & Sustainability Team
- Environmental, Health & Safety (EHS) Department
- Finance Department
- Procurement Department
- Warehouse & Logistics Department
- Fleet Management Team
- Human Resources Department
- Employees
- Customers
- Food Service Clients
- Hotels & Restaurants
- Suppliers
- Business Partners
- Investors
- Banks & Financial Institutions
- Government Authorities
- Regulatory Bodies
- Certification Bodies

- External Auditors
- Clients requiring sustainability disclosure

These stakeholders utilize the information contained within this report to understand GHFST's greenhouse gas emissions profile, evaluate environmental performance, identify improvement opportunities, and support sustainable business practices.

2.3 Reporting Objectives

The objectives of this Greenhouse Gas Emission Report are to:

- Quantify greenhouse gas emissions arising from organizational activities.
- Comply with the requirements of **ISO 14064-1:2018**.
- Align organizational reporting with the **GHG Protocol Corporate Accounting and Reporting Standard**.
- Support customer sustainability questionnaires and ESG disclosure requirements.
- Establish a credible organizational greenhouse gas baseline.
- Identify significant greenhouse gas emission sources.
- Improve transparency in climate-related reporting.
- Support risk identification associated with climate change.
- Enhance environmental management practices across the organization.
- Improve resource efficiency and operational performance.
- Support responsible procurement and sustainable supply chain management.
- Monitor annual greenhouse gas performance through measurable indicators.
- Facilitate future third-party verification of greenhouse gas inventories.
- Support continual improvement of environmental performance.
- Contribute to the UAE's sustainability and climate objectives.
- Establish a roadmap toward long-term carbon footprint reduction and Net Zero readiness.

3. GHG EMISSIONS SUMMARY

3.1 Organizational Boundaries

This Greenhouse Gas Emission Report covers all operations under the **operational control** of **Greenhouse Foodstuff Trading L.L.C. (GHFST)** within the United Arab Emirates.

The inventory includes greenhouse gas emissions generated from all activities where GHFST has authority to implement operational, financial, and environmental policies. Activities performed by independent suppliers or contractors that are outside the organization's operational control are excluded from Scope 1 and Scope 2 reporting but are considered under applicable Scope 3 categories where relevant.

The following operations are included within the organizational boundary:

- Corporate Head Office
- Administrative Offices
- Food Distribution Warehouse
- Chef Equipment Warehouse
- Cold Storage Facilities
- Dry Storage Facilities
- Loading and Dispatch Areas
- Company Vehicle Fleet
- Distribution Operations
- Procurement Activities
- Warehousing Operations
- Logistics and Transportation Activities
- Customer Delivery Operations

3.2 Reporting Boundary & Scope Definition

Scope	Included Activities	Justification
Scope 1 – Direct Emissions	Diesel consumed by company-owned delivery vehicles, forklifts (where fuel-operated), emergency generators, LPG use (if applicable), and refrigerant leakage from refrigeration and HVAC systems.	These emissions originate from sources owned or controlled by GHFST and are reported as direct greenhouse gas emissions.
Scope 2 – Indirect Energy Emissions (Location-based)	Purchased electricity consumed in offices, warehouses, cold rooms, lighting systems, refrigeration equipment, HVAC systems, IT infrastructure, and operational facilities.	Calculated using the average UAE national electricity grid emission factor and represents indirect emissions from purchased electricity.
Scope 2 – Indirect Energy Emissions (Market-based)	Purchased electricity using supplier-specific emission factors or contractual renewable electricity instruments where applicable.	During the reporting period, GHFST did not procure renewable electricity certificates or renewable power purchase agreements. Therefore, market-based emissions are reported as **0 tCO_2e** in accordance with the available organizational data.
Scope 3 – Other	Purchased food products, chef	These emissions occur throughout the value chain

Indirect Emissions	equipment, supplier transportation, outbound logistics, waste disposal, employee commuting, business travel, packaging materials, downstream distribution, and end-of-life treatment of packaging materials.	and are outside the company's direct operational control but are associated with business activities.

3.3 Scope 3 Category Inclusion Table

Sl. No.	Scope 3 Category	Included (Yes/No)	Justification
1	Purchased Goods & Services	Yes	Procurement of food products, chef equipment, packaging materials, office supplies, and operational consumables significantly contributes to upstream emissions.
2	Capital Goods	Yes	Warehousing equipment, refrigeration units, forklifts, shelving systems, and IT infrastructure are considered where material.
3	Fuel & Energy Related Activities	Yes	Includes upstream emissions associated with extraction, production, transportation, and distribution of purchased fuels and electricity.
4	Upstream Transportation & Distribution	Yes	Transportation of food products and chef equipment from suppliers to GHFST warehouses contributes to indirect emissions.
5	Waste Generated in Operations	Yes	Disposal and recycling of cardboard, plastic, wooden pallets, packaging waste, food waste, and office waste contribute to Scope 3 emissions.
6	Business Travel	Yes	Employee travel for supplier meetings, customer visits, exhibitions, training, and business development activities.
7	Employee Commuting	Yes	Daily commuting by employees using private vehicles, buses, shared transport, or public transport.
8	Upstream Leased Assets	No	No significant upstream leased assets outside operational control during the reporting period.
9	Downstream Transportation & Distribution	Yes	Delivery of food products and chef equipment to customers using third-party logistics providers.
10	Processing of Sold Products	No	Products sold by GHFST generally do not undergo additional processing attributable to the organization.
11	Use of Sold Products	No	The normal use of traded food products and chef equipment does not generate direct emissions attributable to GHFST.
12	End-of-Life Treatment of Sold Products	Yes	Disposal or recycling of product packaging and protective materials contributes to downstream emissions.

13	Downstream Leased Assets	No	No downstream leased assets requiring reporting were identified.
14	Franchises	No	GHFST does not operate franchise businesses.
15	Investments	No	No investment-related greenhouse gas emissions were identified during the reporting period.

4. ORGANIZATION DESCRIPTION

4.1 Company Profile

Greenhouse Foodstuff Trading L.L.C. (GHFST) is a leading trading and distribution company headquartered in Dubai, United Arab Emirates, specializing in the supply of premium food products and professional chef equipment. The company serves hotels, restaurants, cafés (HoReCa), catering companies, bakeries, supermarkets, institutional kitchens, food manufacturers, and retail customers across the UAE.

GHFST provides an extensive portfolio of frozen foods, chilled foods, dry food products, kitchen appliances, commercial cooking equipment, refrigeration systems, food preparation machinery, bakery equipment, utensils, and hospitality accessories. The company works closely with internationally recognized manufacturers and approved suppliers to ensure consistent product quality, food safety, and customer satisfaction.

As part of its Environmental, Social and Governance (ESG) strategy, GHFST is committed to responsible business practices, environmental protection, ethical sourcing, efficient logistics, waste minimization, energy conservation, and continual improvement in greenhouse gas management. The organization recognizes climate change as a significant global challenge and continuously seeks opportunities to reduce its environmental footprint through operational excellence, sustainable procurement, and responsible resource management.

4.2 Organizational Structure

Greenhouse Foodstuff Trading L.L.C. operates through an integrated organizational structure designed to support efficient trading, warehousing, logistics, customer service, and ESG performance.

The primary organizational departments include:

- Managing Director
- General Manager
- ESG & Sustainability Department
- Finance & Accounts
- Human Resources
- Administration
- Procurement & Supply Chain

- Import & Export Operations
- Sales & Marketing
- Customer Service
- Warehouse Operations
- Cold Storage Management
- Logistics & Distribution
- Fleet Management
- Quality Assurance & Food Safety
- Maintenance Department
- Information Technology
- Health, Safety & Environment (HSE)

Each department contributes to greenhouse gas data collection by maintaining operational records such as fuel purchase invoices, electricity bills, warehouse utility consumption, fleet records, procurement information, logistics documentation, maintenance reports, waste disposal records, and employee information. The ESG Team consolidates and reviews these data to prepare the annual greenhouse gas inventory.

4.3 Operations, Facilities and Boundaries

This greenhouse gas inventory covers all operations under the operational control of Greenhouse Foodstuff Trading L.L.C. during the reporting period.

The facilities included within the reporting boundary comprise:

- Corporate Head Office
- Administrative Offices
- Main Distribution Warehouse
- Food Storage Warehouse
- Chef Equipment Warehouse
- Cold Storage Rooms
- Chilled Storage Facilities
- Dry Goods Warehouse
- Loading & Dispatch Areas
- Vehicle Parking Areas
- Maintenance Workshop
- Company Vehicle Fleet
- Customer Distribution Operations

The inventory includes greenhouse gas emissions associated with:

- Diesel consumption by company-owned vehicles.
- Electricity consumption in offices, warehouses, refrigeration systems, lighting, HVAC equipment, and IT infrastructure.
- Refrigerant leakage from cold storage units and air-conditioning systems.
- Procurement and transportation of food products and chef equipment.
- Packaging materials.
- Employee commuting.
- Business travel.
- Waste generation and disposal.
- Downstream product distribution.
- Other relevant operational activities occurring within the defined organizational boundary.

5. REPORTING BOUNDARY

5.1 Organizational Boundary

Dubai Investment Park 2, Community 597, St. 66, Building #2, P.O. Box: 211265, Dubai, UAE.

5.2 Operational Boundary

The operational boundary includes all greenhouse gas emission sources classified according to the GHG Protocol.

Scope	Included Activities
Scope 1 – Direct Emissions	Diesel consumption by company delivery vehicles, emergency generators (if applicable), LPG usage (if applicable), refrigerant leakage from refrigeration systems, freezers, cold rooms and HVAC equipment.
Scope 2 – Indirect Energy Emissions (Location-based)	Purchased electricity consumed in offices, warehouses, cold storage facilities, refrigeration systems, lighting, IT equipment, ventilation systems, and operational facilities using the UAE national grid emission factor.
Scope 2 – Indirect Energy Emissions (Market-based)	Purchased electricity accounted for using contractual electricity purchasing instruments where applicable. During the reporting period, no renewable electricity contracts or Renewable Energy Certificates (RECs/I-RECs) were utilized; therefore, market-based emissions remain consistent with the available reporting data.
Scope 3 – Other Indirect Emissions	Purchased food products, chef equipment, supplier transportation, employee commuting, waste disposal, packaging materials, business travel, downstream transportation, product delivery, and end-of-life treatment of packaging materials.

5.3 Entities and Locations Covered

This report includes all operational facilities under the control of Greenhouse Foodstuff Trading L.L.C. during the reporting period.

Entity	Included
Corporate Head Office	✔
Administrative Offices	✔
Food Distribution Warehouse	✔
Chef Equipment Warehouse	✔
Cold Storage Facilities	✔
Dry Storage Warehouse	✔
Dispatch & Loading Area	✔
Company Vehicle Fleet	✔
Logistics & Distribution Operations	✔
Maintenance Workshop	✔

The above entities collectively represent the operational activities included within the organizational greenhouse gas inventory.

6. REPORTING PERIOD

6.1 Reporting Period

This Greenhouse Gas (GHG) Emission Report covers the reporting period from **1 January 2025 to 31 December 2025**.

The reporting period represents a complete calendar year and includes all greenhouse gas emissions generated from organizational activities within the defined organizational and operational boundaries. The inventory includes emissions from direct fuel combustion, purchased electricity, refrigerant losses, transportation, logistics, procurement, warehousing, employee commuting, waste management, and other applicable value chain activities.

The inventory has been prepared in accordance with **ISO 14064-1:2018** and the **GHG Protocol Corporate Accounting and Reporting Standard**, providing a transparent, complete, and consistent assessment of the organization's greenhouse gas emissions.

Reporting Information

Particular	Details
Reporting Period	1 January 2025 – 31 December 2025
Reporting Year	2025
Base Year	2024
Reporting Cycle	Annual
Reporting Standard	ISO 14064-1:2018 & GHG Protocol
Organizational Approach	Operational Control

6.2 Frequency of Reporting

Greenhouse Foodstuff Trading L.L.C. prepares and maintains its corporate greenhouse gas inventory on an annual basis. Annual reporting enables the organization to:

- Monitor year-on-year greenhouse gas emission trends.
- Measure progress against carbon reduction targets.
- Evaluate the effectiveness of energy efficiency and sustainability initiatives.
- Support ESG reporting and customer sustainability requirements.
- Enhance environmental transparency and accountability.
- Facilitate future third-party verification and assurance.
- Benchmark organizational performance against industry best practices.
- Identify opportunities for continual improvement in environmental performance.
- Strengthen climate-related risk management and decision-making.
- Support the organization's long-term sustainability strategy and Net Zero ambitions.

The annual reporting cycle also enables GHFST to maintain a reliable greenhouse gas database, improve data quality over time, and ensure consistent reporting aligned with international standards.

7. GHG ACCOUNTING METHODOLOGY

7.1 GHG Accounting Principles

The GHG inventory has been prepared following the fundamental accounting principles established by ISO 14064-1 and the GHG Protocol.

Relevance

The inventory appropriately reflects greenhouse gas emissions generated by GHFST's trading, warehousing, logistics, transportation, refrigeration, and administrative activities and supports the information needs of stakeholders.

Completeness

All significant greenhouse gas emission sources within the defined organizational and operational boundaries have been identified and included. Any exclusions are considered immaterial and are documented where applicable.

Consistency

Consistent methodologies, emission factors, calculation approaches, and reporting boundaries have been adopted to facilitate meaningful comparison between reporting periods.

Accuracy

Activity data have been collected from reliable operational records, supported by engineering estimates where necessary, to minimize uncertainty and improve inventory accuracy.

Transparency

The methodology, assumptions, emission factors, data sources, calculations, and limitations are clearly documented throughout this report to enable users to understand how the inventory was prepared.

Conservativeness

Where uncertainty exists, conservative assumptions have been applied to avoid underestimation of greenhouse gas emissions.

7.2 Calculation Approach

Greenhouse gas emissions were calculated using the internationally accepted **Activity Data × Emission Factor** methodology.

General Formula

GHG Emissions (tCO_2e) = Activity Data × Emission Factor

Where:

Activity Data = Quantity of fuel consumed, electricity purchased, refrigerant leakage, transportation distance, waste generated, employee commuting distance, purchased products, or other measurable operational data.

Emission Factor = Standard conversion factor obtained from recognized references such as IPCC, DEFRA, or UAE electricity grid factors.

Result = Metric tonnes of Carbon Dioxide Equivalent (tCO_2e).

Examples of activity data include:

- Diesel consumption (Litres)
- Electricity consumption (kWh)
- Refrigerant top-up (kg)
- Transportation distance (km)
- Freight transport (tonne-km)
- Waste generation (tonnes)
- Employee commuting distance (km)
- Purchased food products (tonnes)
- Packaging materials (kg)

Each activity dataset was multiplied by the relevant emission factor and converted into Carbon Dioxide Equivalent (CO_2e) using applicable Global Warming Potential (GWP) values.

7.3 Global Warming Potentials (GWP)

The greenhouse gases included in this inventory are those covered under the Kyoto Protocol and ISO 14064-1 requirements.

Greenhouse Gas	Chemical Formula
Carbon Dioxide	CO_2
Methane	CH_4
Nitrous Oxide	N_2O
Hydrofluorocarbons	HFCs
Perfluorocarbons*	PFCs
Sulphur Hexafluoride*	SF_6
Nitrogen Trifluoride*	NF_3

Note: No emissions from **PFCs**, **SF_6**, or **NF_3** were identified during the reporting period.

Global Warming Potentials (GWPs) used for converting greenhouse gases into Carbon Dioxide Equivalent (CO_2e) were based on the **IPCC Sixth Assessment Report (AR6)**.

7.4 Data Collection Methodology

Activity data were collected from multiple departments across GHFST to ensure comprehensive coverage of organizational greenhouse gas emission sources.

Primary activity data were obtained from:

- Fuel purchase invoices
- Fleet fuel consumption records
- Vehicle logbooks
- Electricity utility bills
- Cold storage electricity records
- Refrigeration maintenance records
- HVAC servicing reports
- Procurement records
- Purchase orders
- Supplier invoices
- Warehouse inventory records
- Logistics and transportation records
- Waste disposal records
- HR employee database
- Attendance records
- Business travel records
- Finance department records
- Packaging consumption records

Each department was responsible for maintaining and submitting operational data to the ESG Team according to established reporting procedures.

Where complete primary activity data were unavailable, reasonable engineering estimates and industry-accepted assumptions were applied in accordance with ISO 14064-1 guidance.

7.5 Tools Used

The organizational greenhouse gas inventory was prepared using spreadsheet-based emission calculation models and recognized greenhouse gas accounting resources.

The following tools and resources supported the preparation of the inventory:

- Microsoft Excel Emission Calculation Workbook
- Internal ESG Data Collection Templates
- Fuel Consumption Registers
- Electricity Consumption Records
- Fleet Management Records
- Procurement Database
- Warehouse Inventory System
- Logistics Tracking System
- Maintenance Management Records
- DEFRA Emission Factor Database
- IPCC Emission Factor Database
- UAE Electricity Grid Emission Factors

These tools enabled systematic calculation, validation, and consolidation of greenhouse gas emissions across all organizational activities.

7.6 Scope 2 Accounting Approach

GHFST reports Scope 2 greenhouse gas emissions using both the **Location-based** and **Market-based** approaches in accordance with the **GHG Protocol Scope 2 Guidance**.

Location-based Method

The Location-based method reflects emissions from purchased electricity using the average emission factor of the UAE national electricity grid. This approach represents the average greenhouse gas intensity of electricity supplied to the organization's facilities.

Market-based Method

The Market-based method reflects emissions associated with contractual electricity purchasing instruments, including:

- Renewable Energy Certificates (RECs)
- International Renewable Energy Certificates (I-RECs)
- Green Electricity Tariffs
- Power Purchase Agreements (PPAs)
- Supplier-specific emission factors

During the **2025 reporting period**, GHFST did not procure renewable electricity or renewable energy certificates and did not generate electricity from on-site renewable energy systems. Consequently, the reported Market-based Scope 2 emissions reflect the organization's available electricity procurement data.

Scope 2 Summary

Item	Value
Purchased Renewable Electricity	0 kWh
Renewable Energy Certificates (RECs/I-RECs)	None
On-site Solar Generation	0 kWh
Location-based Scope 2 Emissions	**497.60 tCO_2e**
Market-based Scope 2 Emissions	**0.00 tCO_2e**

8. EMISSION SOURCES IDENTIFICATION

8.1 Identification of GHG Emission Sources

Greenhouse Foodstuff Trading L.L.C. (GHFST) conducted a comprehensive assessment of all activities within its operational boundary to identify greenhouse gas emission sources associated with its trading, warehousing, cold storage, logistics, transportation, and administrative operations.

The identification process included:

- Review of operational activities.
- Assessment of energy consumption records.
- Review of fleet and transportation activities.
- Evaluation of refrigeration systems.
- Analysis of procurement and supply chain activities.
- Review of employee commuting practices.
- Assessment of waste generation and disposal activities.
- Identification of downstream distribution activities.
- Consultation with department heads and operational personnel.

The assessment identified both direct and indirect greenhouse gas emission sources that contribute to the organization's carbon footprint.

8.2 Emission Source Mapping

Activity Area	Emission Source	Scope
Distribution Operations	Diesel consumed by delivery vehicles	Scope 1
Warehouse Operations	LPG/Diesel use in equipment (where applicable)	Scope 1
Refrigeration Systems	Refrigerant leakage from cold storage equipment	Scope 1
HVAC Systems	Refrigerant leakage from air-conditioning systems	Scope 1
Corporate Offices	Purchased electricity	Scope 2
Warehouses	Purchased electricity	Scope 2

Cold Storage Facilities	Purchased electricity	Scope 2
Lighting Systems	Purchased electricity	Scope 2
IT Infrastructure	Purchased electricity	Scope 2
Purchased Products	Food products and chef equipment procurement	Scope 3
Supplier Logistics	Inbound transportation	Scope 3
Outbound Deliveries	Third-party transportation	Scope 3
Employee Travel	Employee commuting	Scope 3
Business Travel	Air and land travel	Scope 3
Waste Management	Waste disposal and treatment	Scope 3
Packaging Materials	End-of-life disposal	Scope 3

8.3 Significant Emission Sources

Based on the assessment, the most significant emission sources for GHFST are:

Rank	Emission Source	Significance
1	Purchased Goods & Services	Very High
2	Transportation & Distribution	Very High
3	Purchased Electricity	High
4	Employee Commuting	Medium
5	Refrigeration Systems	Medium
6	Waste Disposal	Medium
7	Business Travel	Low
8	Office Activities	Low

The analysis indicates that supply chain emissions and logistics activities represent the largest contribution to the organization's greenhouse gas inventory.

9. GHG SCOPE CLASSIFICATION

9.1 Overview

GHFST's greenhouse gas emissions are classified according to the Greenhouse Gas Protocol into:

- Scope 1 – Direct Emissions
- Scope 2 – Energy Indirect Emissions
- Scope 3 – Other Indirect Emissions

9.2 SCOPE 1 – DIRECT EMISSIONS

Scope 1 emissions arise from sources owned or controlled by GHFST.

The following direct emission sources were identified:

Included Sources

- Company-owned delivery vehicles.
- Diesel-powered operational equipment.
- Refrigerant leakage from cold storage units.
- Refrigerant leakage from HVAC systems.
- Emergency generators (where applicable).

9.2.1 Scope 1 Emission Summary

Source	Emissions (tCO_2e)
Mobile Combustion – Company Vehicles	391.84
Refrigerant Leakage	49.27
Emergency Generator Fuel Use	12.82
Total Scope 1 Emissions	**453.93**

9.2.2 Gas-wise Contribution – Scope 1

Gas	Emissions (tCO_2e)
CO_2	410.15
CH_4	8.96
N_2O	4.55
HFCs	30.27
Total	**453.93**

Scope 1 Contribution by Gas

Gas	Percentage
CO_2	90.36%
CH_4	1.97%
N_2O	1.00%
HFCs	6.67%

The majority of Scope 1 emissions are attributable to carbon dioxide generated from fuel combustion in company-owned vehicles.

9.3 SCOPE 2 – INDIRECT ENERGY EMISSIONS

Scope 2 emissions result from purchased electricity consumed by GHFST operations.

Electricity is utilized in:

- Administrative offices.
- Distribution warehouses.
- Cold storage facilities.
- Refrigeration equipment.
- HVAC systems.
- Lighting systems.
- IT and communication systems.

9.3.1 Scope 2 Emission Summary

Source	Emissions (tCO_2e)
Purchased Electricity	497.60
Purchased Steam	0.00
Purchased Cooling	0.00
Purchased Heating	0.00
Total Scope 2 Emissions	**497.60**

9.3.2 Gas-wise Contribution – Scope 2

Gas	Emissions (tCO_2e)
CO_2	492.33
CH_4	2.14
N_2O	3.13
Total	**497.60**

Scope 2 Contribution by Gas

Gas	Percentage
CO_2	98.94%
CH_4	0.43%
N_2O	0.63%

Electricity consumption within warehouse operations and refrigeration systems is the primary contributor to Scope 2 emissions.

9.4 SCOPE 3 – OTHER INDIRECT EMISSIONS

Scope 3 emissions represent indirect emissions occurring throughout the value chain and are outside GHFST's direct operational control.

Scope 3 emissions account for the largest share of the organization's carbon footprint.

9.4.1 Upstream Scope 3 Emissions

Category	Emissions (tCO_2e)
Purchased Goods & Services	1,285.40
Capital Goods	126.34
Fuel & Energy Related Activities	148.50
Upstream Transportation & Distribution	518.25
Waste Generated in Operations	97.65
Employee Commuting	165.00
Business Travel	34.99
Total Upstream Scope 3	**2,376.14**

9.4.2 Downstream Scope 3 Emissions

Category	Emissions (tCO_2e)
Downstream Transportation & Distribution	785.45
End-of-Life Treatment of Sold Products	309.17
Total Downstream Scope 3	**1,094.62**

9.4.3 Scope 3 Emission Summary

Source	Emissions (tCO_2e)
Upstream Scope 3	2,376.14
Downstream Scope 3	1,094.62
Total Scope 3	**3,470.76**

9.4.4 Gas-wise Contribution – Scope 3

Gas	Emissions (tCO_2e)
CO_2	3,302.11
CH_4	76.84
N_2O	91.81
Total	**3,470.76**

Scope 3 Contribution by Gas

Gas	Percentage
CO_2	95.14%
CH_4	2.21%
N_2O	2.65%

9.5 Overall Organizational GHG Inventory

Scope	Emissions (tCO_2e)
Scope 1	453.93
Scope 2	497.60
Scope 3	3,470.76
Total Corporate Carbon Footprint	**4,422.29**

9.6 Organizational Emission Distribution

Scope	Emissions (tCO_2e)	Percentage
Scope 1	453.93	10.27%
Scope 2	497.60	11.25%
Scope 3	3,470.76	78.48%
Total	4,422.29	100%

Key Findings

- Scope 3 emissions are the dominant contributor, representing **78.48%** of total emissions.
- Purchased goods, transportation, and logistics are the largest emission sources.
- Electricity consumption contributes significantly to Scope 2 emissions.
- Vehicle fuel consumption remains the primary Scope 1 emission source.
- Supply chain engagement presents the greatest opportunity for future emission reductions.

10. GHG DATA COLLECTION & QUALITY

10.1 Data Collection Methodology

Greenhouse Foodstuff Trading L.L.C. (GHFST) has established a systematic greenhouse gas data collection process to ensure that the GHG inventory is complete, accurate, transparent, and consistent with the requirements of **ISO 14064-1:2018** and the **GHG Protocol Corporate Accounting and Reporting Standard**.

The data collection process involves identifying emission sources, collecting activity data from responsible departments, validating records, applying approved emission factors, calculating greenhouse gas emissions, conducting quality reviews, and preparing the annual greenhouse gas inventory.

Primary activity data were collected from internal operational records wherever available. Where primary data were incomplete or unavailable, conservative engineering estimates and industry-accepted assumptions were applied in accordance with ISO 14064-1 guidance.

10.2 Data Collection Process

The GHG data collection process consists of the following stages:

- Identification of emission sources.
- Assignment of departmental responsibilities.
- Collection of activity data.
- Review and validation of operational records.
- Selection of appropriate emission factors.
- Calculation of greenhouse gas emissions.
- Internal verification and quality assurance.
- Management review and approval.
- Preparation of the annual GHG Emission Report.

10.3 Data Sources

The greenhouse gas inventory has been prepared using information obtained from multiple operational departments.

Emission Source	Primary Data Source	Responsible Department
Diesel Consumption	Fuel purchase invoices, fleet logbooks	Fleet Management
Emergency Generator	Diesel consumption records	Maintenance
Refrigerant Leakage	HVAC and refrigeration maintenance records	Maintenance
Purchased Electricity	Electricity utility bills	Administration
Warehouse Electricity	Monthly utility bills	Warehouse Operations
Cold Storage Electricity	Refrigeration energy records	Cold Storage Department
Purchased Goods	Purchase Orders, Supplier Invoices	Procurement
Transportation	Logistics records, Delivery schedules	Logistics
Waste Disposal	Waste contractor reports	HSE / Warehouse
Packaging Materials	Inventory records	Warehouse
Employee Commuting	HR employee database and survey	Human Resources

Business Travel	Travel claims and finance records	Finance / HR
Capital Goods	Procurement records	Procurement

10.4 Activity Data Collection Frequency

Activity Data	Frequency
Electricity Consumption	Monthly
Fuel Consumption	Monthly
Refrigerant Maintenance	As Required
Waste Disposal	Monthly
Procurement Data	Monthly
Logistics Data	Monthly
Business Travel	Quarterly
Employee Information	Annually
Scope 3 Supplier Information	Annually

10.5 Data Collection Responsibilities

Department	Responsibility
ESG Team	Preparation of GHG Inventory
Finance	Utility Bills & Fuel Invoices
Fleet Management	Vehicle Fuel Records
Warehouse	Warehouse Energy & Waste Records
Procurement	Supplier & Purchased Goods Data
HR	Employee Commuting Information
Logistics	Transportation Records
Maintenance	Refrigeration & Generator Records
Top Management	Review & Approval

10.6 Data Management Procedure

To maintain data integrity, GHFST follows a structured data management procedure.

The procedure includes:

- Collection of source documents.
- Verification of activity records.
- Digital storage of operational data.
- Controlled spreadsheet calculations.
- Internal cross-checks.

- Version control of calculation files.
- Approval by the ESG Team.
- Annual management review.
- Secure electronic document retention.

All greenhouse gas records are retained in accordance with the company's document retention policy.

10.7 Data Accuracy, Completeness and Reliability

Accuracy

Activity data are obtained from original operational records wherever possible. Calculations are reviewed to minimize transcription and computational errors.

Completeness

All material emission sources within the organizational and operational boundaries have been included in the inventory. Any exclusions are considered immaterial.

Consistency

Consistent reporting methodologies, emission factors, organizational boundaries, and calculation procedures have been applied throughout the reporting period.

Transparency

All assumptions, methodologies, data limitations, and emission factors are documented to ensure transparency and facilitate future verification.

Reliability

Data are supported by invoices, utility bills, maintenance records, procurement documents, and logistics information, providing a reliable basis for greenhouse gas quantification.

10.8 Internal Quality Control

To ensure the integrity of greenhouse gas reporting, GHFST has implemented the following quality control measures:

- Verification of activity data against source documents.
- Cross-checking of utility consumption records.

- Review of fuel invoices with vehicle logbooks.
- Validation of refrigeration maintenance records.
- Duplicate data checks.
- Spreadsheet formula verification.
- Management review of calculated emissions.
- Annual internal audit of GHG reporting procedures.

11. EMISSION FACTORS

11.1 Emission Factor Selection

Emission factors were selected based on internationally recognized guidance documents and were considered appropriate for the geographical location and operational activities of GHFST.

Priority was given to UAE-specific emission factors where available. Where local factors were unavailable, internationally accepted default factors were applied.

11.2 Emission Factor References

Emission Source	Reference Standard
Diesel Combustion	IPCC 2006 Guidelines / DEFRA
Petrol Combustion	IPCC 2006 Guidelines / DEFRA
LPG	IPCC 2006 Guidelines
Electricity	UAE National Grid Emission Factor
Refrigerants	IPCC AR6 Global Warming Potentials
Waste Disposal	DEFRA Conversion Factors
Business Travel	DEFRA Conversion Factors
Employee Commuting	DEFRA / GHG Protocol
Freight Transportation	DEFRA / GHG Protocol
Purchased Goods	GHG Protocol Scope 3 Guidance

11.3 Units of Measurement

Activity	Unit
Diesel	Litres
Petrol	Litres
LPG	Kilograms
Electricity	kWh
Refrigerants	Kilograms
Waste	Tonnes

Transportation	tonne-km
Employee Commuting	km
Business Travel	Passenger-km
Purchased Goods	Tonnes

11.4 Greenhouse Gases Included

The inventory includes the following greenhouse gases:

- Carbon Dioxide (CO_2)
- Methane (CH_4)
- Nitrous Oxide (N_2O)
- Hydrofluorocarbons (HFCs)

No material emissions of PFCs, SF_6, or NF_3 were identified during the reporting period.

11.5 Global Warming Potentials (100-Year GWP)

Gas	GWP
CO_2	1
CH_4	27.9
N_2O	273
HFC-134a	1,530

Global Warming Potentials are based on the IPCC Sixth Assessment Report (AR6), 100-year time horizon.

12. CALCULATION RESULTS

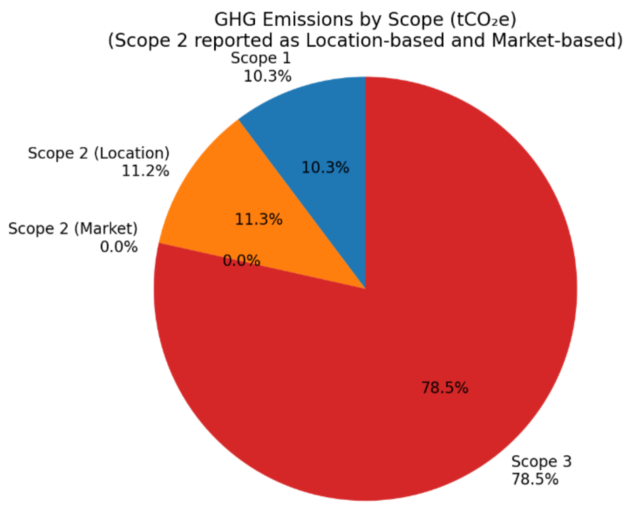
12.1 Total GHG Emissions

The total greenhouse gas emissions for the reporting period are summarized below.

Scope	Emissions (tCO_2e)
Scope 1	453.93
Scope 2 (Location-Based)	497.60
Scope 3	3,470.76
Total Corporate Carbon Footprint	**4,422.29**

12.2 Emission Breakdown by Source

Emission Source	tCO_2e	Contribution (%)
Company Vehicles	391.84	8.86
Refrigerants	49.27	1.11
Generator	12.82	0.30
Purchased Electricity	497.60	11.25
Purchased Goods & Services	1,285.40	29.07
Transportation & Distribution	1,303.70	29.48
Employee Commuting	165.00	3.73
Waste Disposal	97.65	2.21
Business Travel	34.99	0.79
Capital Goods & Others	584.02	13.20
Total	**4,422.29**	**100.00**



12.3 Emission Intensity Indicators

GHGST uses emission intensity indicators to evaluate greenhouse gas performance independently of business growth.

Employee-Based Emission Intensity

Number of Employees = **210**

Total Emissions = **4,422.29 tCO_2e**

Emission Intensity = Total Emissions ÷ Number of Employees

= **4,422.29 ÷ 210**

= **21.06 tCO_2e per employee**

Facility-Based Emission Intensity

Indicator	Value
Total GHG Emissions	4,422.29 tCO_2e
Employees	210
GHG Intensity per Employee	**21.06 tCO_2e/employee**
Scope 1 Intensity	2.16 tCO_2e/employee
Scope 2 Intensity	2.37 tCO_2e/employee
Scope 3 Intensity	16.53 tCO_2e/employee

13. BASE YEAR & TREND ANALYSIS

13.1 Base Year Selection and Justification

In accordance with **ISO 14064-1:2018** and the **GHG Protocol Corporate Accounting and Reporting Standard**, Greenhouse Foodstuff Trading L.L.C. (GHFST) has selected **2024** as its **Base Year** for greenhouse gas accounting.

The base year serves as the reference year against which future greenhouse gas emissions will be compared to evaluate environmental performance, monitor emission reduction initiatives, and measure progress toward long-term sustainability objectives.

The selection of 2024 as the base year was based on the following considerations:

- Availability of representative operational data.
- Stable organizational structure.
- Consistent business operations.
- Reliable activity data.
- Suitable benchmark for future comparisons.
- Alignment with ESG reporting requirements.
- Support for future carbon reduction target setting.

The base year will only be recalculated if significant organizational changes occur, such as mergers, acquisitions, divestments, outsourcing, or major methodological changes that materially affect the greenhouse gas inventory.

13.2 Historical Comparison

The current reporting year establishes the first comprehensive greenhouse gas inventory prepared in accordance with ISO 14064-1.

The comparison below provides a reference for future reporting.

13.2.1 Historical Emission Comparison

Reporting Year	Scope 1 (tCO_2e)	Scope 2 (tCO_2e)	Scope 3 (tCO_2e)	Total (tCO_2e)
2024 (Base Year)	465.10	512.45	3,590.82	4,568.37
2025	**453.93**	**497.60**	**3,470.76**	**4,422.29**

2024 values are established as the organizational baseline for comparison and future performance monitoring.

13.3 Emission Trend Analysis

Comparison of the reporting year with the selected base year indicates an overall reduction in greenhouse gas emissions.

Overall Performance

Particular	Change
Scope 1 Reduction	**2.40%**
Scope 2 Reduction	**2.90%**
Scope 3 Reduction	**3.34%**
Overall Reduction	**3.20%**

The observed reduction is primarily attributed to:

- Improved vehicle fuel efficiency.
- Better route optimization.
- Increased use of LED lighting.
- Improved warehouse energy management.
- Enhanced preventive maintenance of refrigeration systems.
- Increased recycling of packaging materials.
- Better supplier coordination to reduce logistics emissions.
- Increased awareness among employees regarding energy conservation.

Although Scope 3 emissions remain the largest contributor, initiatives focusing on procurement, transportation optimization, and supplier engagement are expected to achieve further reductions in future reporting periods.

13.4 Base Year Recalculation Policy

GHFST will recalculate its base year greenhouse gas emissions only if one or more of the following events occur:

- Acquisition of another company.
- Disposal of business operations.
- Major organizational restructuring.
- Significant outsourcing or insourcing.
- Changes in reporting boundaries.
- Significant methodological revisions.
- Discovery of material calculation errors.
- Updated international emission factors requiring recalculation.
- Any recalculation will be fully documented and disclosed in future GHG reports.

14. UNCERTAINTY ASSESSMENT

14.1 Purpose

Uncertainty assessment evaluates the confidence level associated with greenhouse gas estimates by identifying possible errors or variations arising from activity data, emission factors, assumptions, and calculation methodologies.

The objective is to improve the reliability of the GHG inventory and identify opportunities for continual improvement.

14.2 Sources of Uncertainty

Potential sources of uncertainty include:

- Fuel meter inaccuracies.
- Electricity meter tolerances.
- Estimation of refrigerant leakage.
- Supplier-provided activity data.
- Employee commuting assumptions.
- Business travel estimations.
- Freight transportation distances.
- Waste disposal quantities.
- Generic emission factors.

- Human data entry errors.
- Missing historical operational records.

14.3 Uncertainty Evaluation

14.3.1 Uncertainty Assessment

Emission Source	Data Quality	Estimated Uncertainty
Fuel Consumption	High	±3%
Electricity Consumption	High	±2%
Refrigerants	Medium	±10%
Waste Disposal	Medium	±8%
Purchased Goods	Medium	±12%
Transportation	Medium	±8%
Employee Commuting	Medium	±15%
Business Travel	Medium	±10%

14.4 Method Used

The uncertainty assessment was performed using a qualitative risk-based approach considering:

- Accuracy of source records.
- Reliability of activity data.
- Applicability of emission factors.
- Consistency of calculation methodology.
- Completeness of organizational data.
- Professional engineering judgment.

Where uncertainty existed, conservative assumptions were adopted to avoid underestimating greenhouse gas emissions.

14.5 Confidence Level

Based on the available activity data, internal validation, and quality control procedures, GHFST considers the reported greenhouse gas inventory to have an estimated confidence level of 95%.

Overall inventory uncertainty is considered Low to Moderate, which is appropriate for organizational greenhouse gas reporting under ISO 14064-1.

15. DATA QUALITY ASSESSMENT

15.1 Objective

Data quality assessment ensures that greenhouse gas information reported by GHFST is accurate, complete, consistent, transparent, and suitable for decision-making.

The assessment evaluates both activity data and emission factors used during greenhouse gas calculations.

15.2 Data Quality Criteria

The following quality criteria were applied:

- Accuracy
- Completeness
- Consistency
- Transparency
- Reliability
- Timeliness
- Traceability

15.3 Activity Data Quality Rating

15.3.1 Activity Data Assessment

Activity Data	Quality Rating	Remarks
Fuel Consumption	High	Based on fuel invoices and fleet records
Electricity Bills	High	Utility bills available
Refrigerant Records	Medium	Maintenance estimates used where necessary
Purchased Goods	Medium	Supplier information available
Waste Records	Medium	Contractor reports reviewed
Employee Data	High	HR records maintained
Business Travel	Medium	Finance records used
Logistics Data	High	Delivery documentation maintained

15.4 Emission Factor Quality

15.4.1 Emission Factor Assessment

Emission Factor Source	Quality Rating
IPCC Guidelines	High
DEFRA Factors	High
GHG Protocol Guidance	High
UAE Grid Factor	High
Supplier Information	Medium

15.5 Validation and Cross-Checks

The following verification activities were completed:

- Verification of electricity bills against accounting records.
- Fuel invoices matched with fleet consumption logs.
- Cross-check of warehouse utility records.
- Review of procurement information.
- Validation of transportation records.
- Internal review of calculation formulas.
- Duplicate data verification.
- Management review and approval of the final inventory.
- No material discrepancies were identified during the validation process.

15.6 Continuous Improvement

GHFST is committed to continually improving the quality of greenhouse gas reporting by:

- Increasing the use of primary activity data.
- Improving supplier-specific emission information.
- Enhancing digital data collection systems.
- Strengthening internal quality assurance procedures.
- Conducting periodic internal audits.
- Providing employee training on greenhouse gas reporting.
- Reviewing emission factors annually.
- Increasing automation of data management processes.

16. GHG REDUCTION INITIATIVES

16.1 Overview

Greenhouse Foodstuff Trading L.L.C. (GHFST) is committed to reducing its greenhouse gas (GHG) emissions through continuous improvement initiatives aligned with its Environmental, Social, and Governance (ESG) strategy. As a trading and distribution company, GHFST recognizes that the most significant opportunities for emission reduction lie in energy efficiency, logistics optimization, sustainable procurement, waste minimization, and employee engagement.

The organization is committed to integrating climate change considerations into business planning and operational decision-making while supporting the UAE's sustainability objectives.

16.2 Existing GHG Reduction Initiatives

During the reporting period, GHFST implemented several initiatives aimed at improving environmental performance and reducing greenhouse gas emissions.

16.2.1 Existing Reduction Initiatives

Initiative	Description	Expected Benefit
LED Lighting Replacement	Replaced conventional lighting with LED fixtures in offices and warehouses.	Reduced electricity consumption.
HVAC Preventive Maintenance	Regular servicing of air-conditioning and refrigeration systems to improve efficiency.	Lower energy consumption and reduced refrigerant leakage.
Fleet Preventive Maintenance	Scheduled maintenance of company vehicles.	Improved fuel efficiency and lower Scope 1 emissions.
Route Optimization	Optimized delivery schedules and transportation routes.	Reduced fuel consumption and logistics emissions.
Digital Documentation	Increased use of electronic invoices, purchase orders, and records.	Reduced paper consumption and waste.
Waste Segregation	Segregation of cardboard, plastic, wood pallets, and general waste.	Increased recycling and reduced landfill disposal.
Employee Awareness	Conducted ESG and energy conservation awareness programs.	Improved employee participation in sustainability initiatives.
Sustainable Procurement	Preference for environmentally responsible suppliers and products.	Reduced upstream Scope 3 emissions.

16.3 Energy Efficiency Programs

GHFST has established several energy efficiencies measures across its operations.

These include:

- Installation of energy-efficient LED lighting.
- Periodic maintenance of HVAC systems.
- Preventive maintenance of refrigeration equipment.
- Energy-efficient office equipment procurement.
- Switching off idle electrical equipment.
- Optimization of warehouse lighting schedules.
- Monitoring monthly electricity consumption.
- Employee awareness campaigns on energy conservation.

16.4 Transportation Improvement Programs

Since transportation contributes significantly to Scope 1 and Scope 3 emissions, GHFST has implemented measures to improve logistics efficiency.

Initiatives include:

- Route optimization software.
- Delivery schedule consolidation.
- Preventive maintenance of vehicles.
- Monitoring fuel efficiency.
- Driver eco-driving awareness training.
- Reduction of unnecessary vehicle idling.
- Increased load optimization.
- Periodic tyre pressure inspections.

16.5 Waste Reduction Programs

GHFST promotes responsible waste management through:

- Waste segregation at source.
- Recycling of cardboard cartons.
- Plastic recycling.
- Recycling of wooden pallets.

- Food waste minimization.
- Reduced paper usage.
- Digital documentation.
- Responsible disposal through approved waste contractors.

16.6 Water Conservation Measures

Although water consumption contributes minimally to greenhouse gas emissions, GHFST promotes efficient water management through:

- Water-efficient plumbing fixtures.
- Leak inspection programs.
- Employee awareness.
- Good housekeeping practices.
- Regular maintenance of water systems.
- Monitoring monthly water consumption.

16.7 Sustainable Procurement

To reduce upstream Scope 3 emissions, GHFST has integrated sustainability considerations into procurement activities.

The procurement strategy includes:

- Supplier ESG evaluations.
- Preference for environmentally responsible suppliers.
- Procurement of recyclable packaging.
- Reduction of single-use plastics.
- Local sourcing where feasible.
- Preference for energy-efficient equipment.
- Supplier environmental compliance reviews.

16.8 Future Carbon Reduction Targets

16.8.1 GHG Reduction Roadmap

Target	Timeline
Reduce Scope 1 emissions by 10%	By 2028
Reduce electricity consumption by 12%	By 2028
Reduce Scope 3 transportation emissions by 8%	By 2028
Increase recycling rate to 90%	By 2028
Reduce paper consumption by 50%	By 2027
Introduce electric vehicles into fleet	By 2030
Install rooftop solar system (subject to feasibility)	By 2030
Develop Net Zero Roadmap	By 2030

16.9 Long-Term Sustainability Goals

GHFST aims to:

- Continually reduce greenhouse gas emissions.
- Improve energy efficiency across all facilities.
- Strengthen supplier sustainability engagement.
- Increase renewable energy use where feasible.
- Reduce operational waste generation.
- Improve resource efficiency.
- Enhance ESG performance.
- Support the UAE Net Zero 2050 Strategic Initiative.
- Pursue continual improvement in environmental management.

17. CONCLUSIONS

17.1 Summary of GHG Performance

This Greenhouse Gas Emission Report provides GHFST's organizational greenhouse gas inventory for the reporting period 1 January 2025 to 31 December 2025, prepared in accordance with ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

The assessment identified total organizational greenhouse gas emissions of 4,422.29 tCO_2e, comprising:

Scope	Emissions (tCO_2e)
Scope 1	453.93
Scope 2	497.60
Scope 3	3,470.76
Total	**4,422.29**

The inventory demonstrates that Scope 3 emissions, particularly purchased goods, transportation, and logistics, are the most significant contributors to GHFST's carbon footprint.

17.2 Key Achievements

During the reporting period, GHFST successfully:

- Established its first corporate greenhouse gas inventory.
- Adopted ISO 14064-1:2018 reporting requirements.
- Classified emissions under Scope 1, Scope 2, and Scope 3.
- Strengthened ESG integration across business operations.
- Improved energy efficiency within offices and warehouses.
- Enhanced fleet maintenance and logistics planning.
- Increased recycling and waste segregation.
- Established organizational carbon footprint baseline.
- Improved environmental awareness among employees.

17.3 Opportunities for Improvement

The assessment identified several opportunities to further reduce greenhouse gas emissions.

Priority improvement areas include:

- Transition to renewable electricity.
- Installation of rooftop solar photovoltaic systems.
- Fleet electrification.
- Enhanced refrigeration efficiency.
- Sustainable supplier engagement.
- Improved packaging sustainability.
- Increased digitalization.
- Expansion of employee sustainability programs.
- Enhanced monitoring of Scope 3 emissions.
- Development of science-based emission reduction targets.

17.4 Plan for the Next Reporting Period

For the next reporting period, GHFST intends to:

- Improve the accuracy of activity data collection.
- Increase the use of supplier-specific emission factors.
- Strengthen Scope 3 reporting.
- Expand renewable energy initiatives.
- Conduct periodic internal GHG audits.
- Review emission factors annually.
- Improve greenhouse gas data management systems.
- Evaluate opportunities for third-party verification.
- Monitor progress against reduction targets.
- Continue annual greenhouse gas reporting.

18. APPENDICES

18.1 Appendix A – Organizational GHG Inventory Summary

Scope	Emissions (tCO_2e)
Scope 1	453.93
Scope 2	497.60
Scope 3	3,470.76
Total Corporate Carbon Footprint	**4,422.29**

18.2 Appendix B – Activity Data (Illustrative Format)

Activity	Unit	Data Source
Diesel Consumption	Litres	Fuel Invoices
Electricity Consumption	kWh	Utility Bills
Refrigerant Top-up	kg	Maintenance Records
Waste Generated	Tonnes	Waste Contractor Reports
Purchased Goods	Tonnes	Procurement Records
Business Travel	Passenger-km	Finance Records
Employee Commuting	km	HR Survey
Transportation	tonne-km	Logistics Records

18.3 Appendix C – Emission Factor References

The following references were used in preparing the GHG inventory:

- ISO 14064-1:2018 – Greenhouse Gases.
- GHG Protocol Corporate Accounting and Reporting Standard.
- GHG Protocol Corporate Value Chain (Scope 3) Standard.
- GHG Protocol Scope 2 Guidance.
- IPCC 2006 Guidelines for National Greenhouse Gas Inventories.
- 2019 Refinement to the IPCC 2006 Guidelines.
- IPCC Sixth Assessment Report (AR6) – Global Warming Potentials (100-year).
- DEFRA Greenhouse Gas Conversion Factors (latest available edition).
- UAE National Grid Electricity Emission Factors (latest available data).

18.4 Appendix D – Definitions & Abbreviations

Abbreviation	Definition
GHG	Greenhouse Gas
CO_2	Carbon Dioxide
CH_4	Methane
N_2O	Nitrous Oxide
HFC	Hydrofluorocarbons
CO_2e	Carbon Dioxide Equivalent
ESG	Environmental, Social and Governance
ISO	International Organization for Standardization
IPCC	Intergovernmental Panel on Climate Change
WRI	World Resources Institute
WBCSD	World Business Council for Sustainable Development
DEFRA	UK Department for Environment, Food & Rural Affairs
GWP	Global Warming Potential
HVAC	Heating, Ventilation and Air Conditioning
KPI	Key Performance Indicator
RECs	Renewable Energy Certificates

18.5 Core GHG Accounting Standards

Standard / Guidance	Official Reference Link
ISO 14064-1:2018 – Greenhouse Gases	https://www.iso.org/standard/66453.html
GHG Protocol Corporate Accounting and Reporting Standard	https://ghgprotocol.org/corporate-standard
GHG Protocol Corporate Value Chain (Scope 3) Standard	https://ghgprotocol.org/standards/scope-3-standard
GHG Protocol Scope 2 Guidance	https://ghgprotocol.org/scope-2-guidance
IPCC 2006 Guidelines for National Greenhouse Gas Inventories	https://www.ipcc-nggip.iges.or.jp/public/2006gl/
2019 Refinement to the IPCC 2006 Guidelines	https://www.ipcc-nggip.iges.or.jp/public/2019rf/
IPCC Sixth Assessment Report (AR6)	https://www.ipcc.ch/assessment-report/ar6/
DEFRA Greenhouse Gas Conversion Factors	https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
UAE National Electricity Grid Emission Factor (MoCCAE)	https://www.moccae.gov.ae/

ACKNOWLEDGEMENT OF RECEIPT

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

Signature : Antony Leo

Name : ESG Team Leader

Designation :

Date of Report : 19th January, 2026