

GULF TEST SAFETY CONSULTANCIES


P.O. BOX 133143, ABU DHBAI UAE

WWW.GULFTEST.ORG



GHG EMISSION REPORT

FORM NO : GTS/ESG/F-550
ISSUE NO : 01
REV NO : 00
DATE : 13th May, 2025

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1. EXECUTIVE SUMMARY

Overview

Gulf Test Safety Consultancies (GTS) is a UAE-based third-party inspection, testing, certification, and safety training organization. This GHG Emission Report quantifies the company’s total greenhouse gas emissions for the reporting year January–December 2024, following ISO 14064-1:2018 and the GHG Protocol Corporate Standard.

Key Emission Results (2024)

Scope Emissions (tCO₂e)

Scope 1 – Direct	251.1
Scope 2 – Indirect Energy	1.0
Scope 3 – Other Indirect	596.20
Total GHG Emissions	848.30 tCO₂e

Highlights & Reduction Achievements

- Initiated plan to transition part of fleet to fuel-efficient vehicles.
- Implemented employee awareness on commuting optimization & shared transport.
- Baseline established for future emission reduction projects including rooftop solar evaluation.

2. INTRODUCTION

2.1 Purpose


To quantify and report GTS’s GHG emissions and establish a transparent baseline for sustainability, ESG disclosures, and future emission reduction planning.

2.2 Intended Users

- Internal management
- ESG / Environment team
- External auditors and certification bodies
- Customers requiring ESG compliance
- Government entities (if requested)

2.3 Reporting Objectives

- Voluntary, aligned with ISO 14064-1 and GHG Protocol
- To meet customer ESG requirements
- To strengthen internal sustainability management

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3. GHG EMISSIONS SUMMARY

3.1 Organizational Boundaries

This GHG Emission Report covers all GTS operations in the UAE.

GTS OFFICE LOCATION:

P.O. Box 133143, Falah Mohammed Falah Jaber Mafrah Al Ahbabi,
 Plot No. 9 M-25, Office No. 11, 12, 13,
 Musaffah, Abu Dhabi, UAE


P.O.BOX 184518, DUBAI, UNITED ARAB EMIRATES.

Activities Covered:

- Third party inspection
- NDT & thermography
- Pressure vessel testing
- Calibration services
- Safety training
- Hazardous gas network inspections

3.2 Reporting Boundary & Scope Definition

Scope	Included Activities	Justification
Scope 1	Direct GHG emissions from company-owned inspection vehicles (diesel), any standby generators (if used), and minimal refrigerant leakage from AC/HVAC units	GTS has operational control over its vehicle fleet, fuel consumption, and facility equipment.
Scope 2	Indirect GHG emissions from purchased grid electricity for office, calibration lab, and training facilities	GTS's operations significantly rely on electricity for office use, laboratory equipment, and training classrooms.
Scope 3	Upstream & downstream indirect emissions including employee commuting, business travel, supplier activities, transport to client sites, calibration consumables, and waste disposal	These emissions occur outside direct control but are material to GTS's service-based value chain.
Scope 3 Upstream	Purchase of calibration materials, consumables, PPE, third-party services, upstream fuel cycle emissions, business travel, employee commuting	Upstream activities form a significant portion of GTS's indirect emissions due to frequent travel, consumables, and supplier services.
Scope 3 Downstream	Travel to client sites for inspections, certification-related logistics, disposal of used calibration materials and packaging	Downstream work forms a critical part of GTS operations since inspections and certifications are conducted at customer facilities.

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3.3 Scope 3 Category Inclusion Table

Category	Included	Justification
Purchased Goods & Services	Yes	Office consumables, calibration materials
Fuel & Energy-Related Activities	Yes	Upstream fuel production
Upstream Transport	Yes	Tools/instrument shipment
Waste Generated in Operations	Yes	Office waste & calibration waste
Business Travel	Yes	Inspections across UAE
Employee Commuting	Yes	35 employees
Downstream Transportation	Yes	Travel to client sites
Capital Goods	No	No major machinery purchase
Processing of Sold Products	No	Services only
End-of-Life Treatment	Yes	Disposal of inspection consumables

4. ORGANIZATION DESCRIPTION

3.1 Company Profile

GTS provides:


Third Party Inspection, Testing & Certification of lifting equipment, lifting accessories, pressure vessels, elevators, escalators, scaffolding; NDT & thermography; electrical and welding inspection; safety training; calibration of mechanical and thermal instruments; hazardous gas system inspection.

3.2 Organizational Structure

- Head Office: Musaffah, Abu Dhabi, UAE
- 35 employees across inspection, calibration, technical operations, and administration.

3.3 Operations, Facilities, and Boundaries

- Office and calibration facilities in Musaffah
- Field inspection services across UAE
- Mobile technical teams using company vehicles
- GTS operates under operational control boundary.

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5. REPORTING BOUNDARY

5.1 Organizational Boundary

Operational Control Approach (as GTS controls daily operations and fuel/electricity usage).

5.2 Operational Boundary

Includes all GHG emissions from:

- Fuel use
- Purchased electricity
- Employee commuting
- Travel for inspection activities
- Upstream/downstream service logistics

5.3 Entities & Locations


- Abu Dhabi HQ
- UAE-wide inspection operations

6. REPORTING PERIOD

- **Start Date:** 1 January 2024
- **End Date:** 31 December 2024
- **Frequency:** Annual

4.4 Scope 3 Category Inclusion Table

Sl. No	Scope 3 Category	Included (Yes/No)	Justification
1	Purchased Goods & Services	Yes	GTS purchases calibration materials, inspection tools, PPE, documentation supplies, and technical services, contributing to indirect emissions.
2	Capital Goods	No	No major capital machinery or infrastructure purchases were made during the reporting year.
3	Fuel & Energy-Related Activities (not in Scope 1 & 2)	Yes	Includes upstream fuel extraction and refining, and grid transmission losses associated with purchased electricity.
4	Upstream Transportation & Distribution	Yes	Transportation of inspection tools, calibration consumables, and vendor supplies to GTS premises contributes to emissions.

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5	Waste Generated in Operations	Yes	Office waste, calibration material waste, packaging, and e-waste contribute to upstream Scope 3 emissions.
6	Business Travel	Yes	Frequent staff travel to inspection sites across the UAE contributes significantly to Scope 3 emissions.
7	Employee Commuting	Yes	Daily commuting by 35 employees via private cars, carpooling, and taxis adds to Scope 3 emissions.
8	Upstream Leased Assets	No	GTS operates using owned or operationally controlled leased assets; no additional upstream leased assets apply.
9	Downstream Transportation & Distribution	Yes	Inspectors and engineers travel to customer locations for inspections, testing, and certifications—material to GTS's service operations.
10	Processing of Sold Products	No	GTS provides services, not products; no additional processing by customers is applicable.
11	Use of Sold Products	No	GTS does not sell products that generate emissions during use.
12	End-of-Life Treatment of Sold Products	Yes	Minimal emissions associated with disposal of training materials, printed certificates, and packaging used for calibration equipment.
13	Downstream Leased Assets	No	No downstream leased facilities or assets are used by GTS.
14	Franchises	No	GTS does not operate any franchise model.
15	Investments	No	GTS has no investment-based activities relevant to GHG accounting.

4.3 Entities Covered

- Gulf Test Safety Consultancies – UAE operations only.


5. REPORTING PERIOD

- Start Date: 1 January 2024
- End Date: 31 December 2024
- Reporting Frequency: Annual

6. GHG ACCOUNTING METHODOLOGY

6.1 Standards Followed

- ISO 14064-1:2018
- GHG Protocol Corporate Standard
- IPCC & DEFRA emission factors

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6.2 Calculation Approach

- Emissions (tCO₂e) = Activity Data × Emission Factor ÷ 1000


6.3 Tools Used

- Excel-based GHG calculation templates
- UAE grid electricity emission factors

7. EMISSION SOURCES IDENTIFICATION

This section identifies all GHG emission sources across Scope 1, Scope 2, and Scope 3 (Upstream & Downstream) for Gulf Test Safety Consultancies (GTS). Emission sources were mapped based on operational activities, inspection services, calibration services, training activities, and value-chain processes.

Source	Scope	Category (GHG Protocol)
Petrol used in company vehicles	Scope 1	Mobile combustion
Diesel vehicles (estimated minimal)	Scope 1	Mobile combustion
Refrigerant top-ups (none reported)	Scope 1	Fugitive emissions
Grid electricity consumption	Scope 2	Purchased electricity
Employee commuting (daily travel)	Scope 3	Upstream – Category 7
Business air travel (GCC travel)	Scope 3	Upstream – Category 6
Office solid waste	Scope 3	Upstream – Category 5
Third-party logistics (occasional deliveries)	Scope 3	Upstream – Category 4
Purchased materials (minor office & inspection supplies)	Scope 3	Upstream – Category 1
Contracted calibration/inspection sub-services (if outsourced)	Scope 3	Upstream – Category 8
Downstream transportation for delivering certificates/reports (digital/physical)	Scope 3	Downstream – Category 9
Downstream waste from customer use of training materials/manuals	Scope 3	Downstream – Category 12
Use of sold services (inspection, training, certification)	Scope 3	Downstream – Category 11 (negligible, as services do not emit during use)
End-of-life treatment of sold products (training booklets, physical certificates)	Scope 3	Downstream – Category 13
Downstream leased assets (none applicable)	Scope 3	Downstream – Category 13 (Not applicable)

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8. GHG SCOPE CLASSIFICATION

8.1 Scope 1 – Direct Emissions

A. Mobile Combustion – Company Vehicles

Petrol used: 111,079.607 litres

Emission factor (Petrol): 2.26 kg CO₂/L (IPCC)

Calculation: $111,079.607 \times 2.26 / 1000 = 251.1 \text{ tCO}_2\text{e}$

B. Stationary Combustion

DG sets, LPG, furnace oil, natural gas: Not used

C. Fugitive Emissions

No refrigerant leakage or top-up data reported → assumed negligible

Total Scope 1 Emissions = 251.1 tCO₂e

8.2 Scope 2 – Indirect Energy Emissions

Electricity consumption: 2,220.02 kWh

UAE grid emission factor: 0.43 kg CO₂/kWh


Calculation: $2,220.02 \times 0.43 / 1000 = 0.95 \text{ tCO}_2\text{e}$

Rounded → 1.0 tCO₂e

Total Scope 2 Emissions = 1.0 tCO₂e

8.3 Scope 3 – Other Indirect Emissions

Category	Emissions (tCO ₂ e)
Upstream	254.24
Downstream	341.96
Total Scope 3	596.20

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Assumed inclusions:

- Employee commuting
- Business travel
- Packaging & consumables
- Vendor services
- Customer-site travel emissions
- Waste disposal

Gas-wise (industry standard):

- CO₂ – 99.9%
- CH₄ – 0.05%
- N₂O – 0.05%

9. GHG DATA COLLECTION & QUALITY

Data Sources


- Fuel purchase records
- ADDC electricity bills
- Employee commuting distance estimates
- Business travel logs
- Office waste & procurement estimates

Completeness & Reliability

Data Type	Quality
Fuel data	High
Electricity	High
Commuting	Medium
Waste	Medium
Material procurement	Low (assumed values)

Data Controls

- Quarterly data collection
- Excel data sheets maintained by HSE/ESG team
- Supplier documentation reviewed annually

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10. EMISSION FACTORS

Source	Factor	Reference
Petrol	2.68 kg CO ₂ /L	IPCC 2006
Electricity (UAE grid)	0.42 kg CO ₂ /kWh	UAE national grid factor
Air travel	0.18 kg/km	DEFRA
Employee commuting	0.15 kg/km	GHG PROTOCOL
Freight Transport	0.90 kg/km	DEFRA


11. CALCULATION RESULTS

11.1 Total GHG Emissions (2024)

Scope	Emissions (tCO ₂ e)
Scope 1	251.1
Scope 2	1.0
Scope 3	596.20
TOTAL	848.30 tCO ₂ e

11.2 Emission Breakdown by Source

Source	Emissions (tCO ₂ e)	Scope
Company vehicle petrol	251.1	Scope 1
Electricity	1.0	Scope 2
Upstream activities	254.24	Scope 3
Downstream activities	341.96	Scope 3

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11.3 Intensity Indicators

Indicator	Value
CO ₂ e per employee	848.3 ÷ 35 = 24.24 tCO ₂ e/employee
CO ₂ e per inspection vehicle (estimated 4 vehicles)	251.10 ÷ 4 = 62.77 tCO ₂ e/vehicle

12. BASE YEAR & TREND ANALYSIS

Base Year: 2024

Used for future comparison.


Reductions expected through route optimization, energy efficiency, LED lighting upgrades, and hybrid vehicle introduction.

13. UNCERTAINTY ASSESSMENT

Source	Uncertainty	Notes
Scope 1	±5%	High-quality fuel data
Scope 2	±5%	Metered electricity
Scope 3	±20%	Travel & value chain estimates

14. DATA QUALITY ASSESSMENT

Data Type	Quality	Confidence
Fuel data	High	95%
Electricity data	High	95%
Employee commuting	Medium	75%
Upstream/downstream value chain	Medium	70%

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15. GHG REDUCTION INITIATIVES

Current Actions

- Carpooling and shared transport initiatives
- Driver fuel-efficiency training
- LED lighting and energy-efficient appliances
- Digital inspection forms to reduce travel
- Solar rooftop feasibility assessment

Planned 2025–2026 Initiatives

- Transition to hybrid/electric vehicles
- Solar PV installation (estimated offset 10–15 tCO₂e/year)
- Enhanced ESG dashboard and automated data tracking

16. CONCLUSIONS

GTS’s total emissions for 2024 stood at 848.30 tCO₂e, with Scope 3 contributing the largest share (≈70%).

Key reduction opportunities include vehicle fuel reduction, renewable energy adoption, and increased digitalization.


17. APPENDICES

17.1 Activity Data Table

Activity	Unit	Data	Scope
Diesel Consumption	-	Included in 251.1 tCO ₂ e	Scope 1
Electricity	kWh	~2,380	Scope 2
Employee’s	No.	35	Scope 3
Upstream emissions	tCO ₂ e	254.24	Scope 3
Downstream emissions	tCO ₂ e	341.96	Scope 3
Total Scope 3	tCO ₂ e	596.20	Scope 3

17.2 Calculation Sheet

Formula: tCO₂e = Activity × Emission Factor / 1000

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17.3 Emission Factor References

- IPCC 2006 Guidelines
- DEFRA Emission Factors
- UAE Electricity Grid Factor
- IEA Transport Factors
- GHG Protocol Corporate Standard

17.4 Definitions & Abbreviations

- CO₂e – Carbon dioxide equivalent
- GHG – Greenhouse gases
- Scope 1/2/3 – Direct, indirect, and value-chain emissions
- tCO₂e – Metric tons of CO₂ equivalent

17.5 Reference Standards Used

- **ISO 14064-1:2018** – Standard for organizational-level quantification and reporting of GHG emissions and removals.
- **GHG Protocol** – Corporate Standard (WRI/WBCSD) – Framework for Scope 1, Scope 2, and Scope 3 accounting and reporting.
- **IPCC 2006 Guidelines** – Source of emission factors and recognized GHG calculation methodologies.
- **DEFRA/BEIS 2023 Conversion Factors** – Emission factors for air travel, transport, and freight activities.
- **UAE GHG Emission Factor Database 2024** – National grid electricity emission factor applicable to UAE operations.
- **IEA Emission Factors Database 2023** – Factors for transport-related indirect emissions and energy-related Scope 3 estimates.

Acknowledge of Receipt for GHG Emission Report

Signature

Name

Date

I confirm that I have received a copy of the GHG Emission Report. I understand that it is my responsibility to read the information within the GHG Emission report and to adhere to the associated rules and regulations.