DUBAI دبـي
429
+971 4 4503633
+971 4 4503634

كليـنـكـو لخـدمـات التـنـظيـف وصيـانـة الـمـبانـي
CLEANCO CLEANING SERVICES & BUILDING MAINTENANCE

www.cleancodubai.com
الإمارات العربية المتحدة
United Arab Emirates

GHG EMISSION REPORT

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1. EXECUTIVE SUMMARY

1.1 Overview of Organization and Reporting Period

Cleanco is a UAE-based facility management and integrated services organization providing a diverse range of operational and support services, including:

- Facility management services
- General cleaning services
- Rope access services
- Maintenance and engineering services
- Housemaid services
- Residential maintenance services
- Auto workshop services

The organization's activities involve significant use of electricity, fuel, transportation, air-conditioning and refrigerant systems, maintenance equipment, cleaning materials, consumables, employee transportation and other upstream and downstream activities.

Cleanco integrates Environmental, Social and Governance (ESG) considerations into its business operations and recognizes greenhouse gas management as an important element of its environmental management and sustainability strategy.

This GHG Emission Report presents Cleanco's organizational greenhouse gas inventory for the period 1 January 2025 to 31 December 2025. The data collection sheet identifies 2024 as the baseline year.

The inventory has been structured in accordance with the principles and reporting framework of ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

The available Cleanco data identifies Scope 1, Scope 2 and Scope 3 emissions and separates Scope 3 into upstream and downstream components.

1.2 Key Emission Results

Based on the submitted GHG data:

Emission Category	2025 Emissions (tCO_2e)	Contribution
Scope 1 – Direct Emissions	2,191.60	6.42%
Scope 2 – Location and Market Based	2,864.37	8.39%
Scope 3 – Upstream	23,616.70	69.15%
Scope 3 – Downstream	5,480.21	16.04%
Total Scope 3	29,096.91	85.19%
Total Corporate GHG Emissions	34,152.88	100.00%

The total corporate carbon footprint is therefore: **34,152.88 tCO_2e**

Scope 3 represents the largest component of the inventory, accounting for approximately 85.19% of total reported emissions.

This indicates that Cleanco's largest climate impact is associated with activities occurring outside its direct operational control, particularly purchased goods and services, outsourced transportation, employee-related activities, supplier activities, and other value-chain emissions.

1.3 Highlights and Reduction Opportunities

The 2025 inventory provides Cleanco with a formal organizational GHG baseline and establishes a framework for future annual monitoring.

Key areas identified for environmental improvement include:

- Reduction of electricity consumption at offices, accommodation facilities and operational locations.
- Improvement of fuel efficiency across company-operated vehicles and equipment.
- Preventive maintenance of vehicles and mobile equipment.
- Improved route planning for service teams.
- Reduction of unnecessary vehicle idling.
- Increased use of energy-efficient equipment.

- Improved HVAC maintenance and refrigerant leakage control.
- Transition toward low-carbon cleaning equipment and machinery.
- Sustainable procurement of cleaning chemicals, consumables and maintenance materials.
- Reduction and recycling of packaging and operational waste.
- Increased use of digital documentation.
- Employee awareness and energy conservation programmes.
- Supplier engagement on GHG emissions.
- Evaluation of electric and hybrid vehicles.
- Improved employee transportation arrangements.
- Development of renewable electricity opportunities.

Because 2024 activity-level data were not included in the supplied Cleanco checklist, a quantified year-on-year reduction achievement cannot presently be confirmed. The 2024 baseline should be populated after the historical activity data are validated.

2. INTRODUCTION

2.1 Purpose of the Report

The purpose of this GHG Emission Report is to quantify, document and communicate greenhouse gas emissions associated with Cleanco's activities during the reporting period from 1 January 2025 to 31 December 2025.

The report establishes a structured organizational GHG inventory covering:

- Direct fuel combustion
- Company-controlled transportation
- Refrigerant emissions
- Purchased electricity
- Purchased goods and services
- Upstream transportation
- Downstream transportation
- Employee commuting
- Business travel
- Waste generated in operations

- Operational consumables
- Maintenance activities; and
- Other relevant value-chain activities where applicable.

The report provides Cleanco with a consistent basis for environmental performance monitoring, ESG reporting, customer sustainability requirements, carbon reduction planning and future third-party verification.

2.2 Intended Users

The intended users of the GHG inventory include:

- Board of Directors
- Managing Director
- General Management
- ESG/Sustainability Team
- HSE/EHS Department
- Finance & Accounts Department
- Procurement Department
- Operations Department
- Fleet/Transport Department
- Engineering & Maintenance Department
- Human Resources Department
- Facility Managers
- Contract Managers
- Employees
- Suppliers
- Contractors
- Business Partners
- Certification and assurance bodies
- Government and regulatory authorities
- Sustainability assessment organizations
- Clients requiring carbon disclosure

2.3 Reporting Objectives

The objectives of the inventory are to:

- Quantify Cleanco's organizational GHG emissions.
- Establish a consistent corporate carbon footprint.
- Align GHG reporting with ISO 14064-1:2018.
- Align emissions classification with the GHG Protocol.
- Support customer sustainability requirements.
- Support ESG and sustainability reporting.
- Identify significant emission sources.
- Establish a basis for emission reduction targets.
- Improve energy and fuel efficiency.
- Support sustainable procurement.
- Improve supplier environmental engagement.
- Monitor annual carbon performance.
- Improve data quality and traceability.
- Support future third-party verification.
- Support climate risk management.
- Contribute to UAE climate and sustainability objectives.
- Establish a pathway toward long-term carbon reduction and Net Zero readiness.

3. ORGANIZATION DESCRIPTION

3.1 Company Profile

Cleanco operates in the UAE facility management and support services sector.

Its service portfolio includes:

Business Activity	Relevant GHG Sources
Facility Management	Electricity, fuel, transportation, consumables
General Cleaning	Electricity, transport, cleaning chemicals, consumables
Rope Access	Transportation, equipment energy, PPE/materials
Maintenance & Engineering	Electricity, fuel, tools, materials, transport
Housemaid Services	Employee transportation, consumables, electricity-related activities
Residential Maintenance	Service vehicles, materials, electricity, refrigerants
Auto Workshop Services	Electricity, fuel, refrigerants, workshop materials, waste

The diversified service portfolio results in a combination of operational and value-chain GHG sources.

3.2 Organizational Structure

For GHG accounting purposes, Cleanco's GHG management responsibilities should be distributed across the following functions:

- Managing Director
- General Manager
- ESG/Sustainability Team
- HSE/EHS Department
- Finance & Accounts
- Procurement
- Facility Management
- Engineering & Maintenance
- Fleet/Transport
- HR
- Administration
- Auto Workshop

- Contract Management
- Stores/Warehouse

The ESG/HSE function should consolidate the annual inventory, while source departments maintain the original activity records.

3.3 Operations, Facilities and Boundaries

The organizational boundary should include facilities and operations under Cleanco's operational control, including where applicable:

- Corporate offices
- Administrative facilities
- Facility management operations
- Cleaning operations
- Maintenance workshops
- Engineering operations
- Auto workshop facilities
- Stores and warehouses
- Company-controlled vehicles
- Service vehicles
- Equipment under Cleanco's operational control
- Employee operational activities
- Other controlled operational locations.

Client premises where Cleanco provides services should be assessed carefully. Electricity or fuel directly controlled and paid for by the client should generally remain outside Cleanco's Scope 1 and Scope 2 inventory, while relevant Cleanco-controlled activities may be reported in Scope 3 or separately disclosed depending on the contractual arrangement.

4. REPORTING BOUNDARY

4.1 Organizational Boundary

4.2 Operational Boundary

The operational boundary consists of three major categories:

Scope 1 – Direct Emissions

Includes:

Diesel consumed by company-controlled vehicles

- Diesel used in DG sets
- LPG/propane consumption
- Natural gas, if applicable
- Furnace oil, if applicable
- Fuel used by operational equipment
- Refrigerant leakage
- Air-conditioning refrigerant losses
- Workshop refrigerant losses
- Other direct combustion sources.

The Cleanco checklist specifically identifies diesel used in DG sets, furnace oil, LPG/propane, natural gas, diesel used in company vehicles and refrigerant top-ups as Scope 1 data parameters.

Scope 2 – Indirect Energy Emissions

Includes:

- Purchased electricity;
- Electricity consumed at offices;
- Electricity used at workshops;
- Electricity used for maintenance operations;
- Electricity used at controlled facilities;
- Purchased cooling, if applicable;
- Purchased heating/steam, if applicable.

The submitted data reports:

Location-based Scope 2 = 2,864.37 tCO_2e

Market-based Scope 2 = 2,864.37 tCO_2e

Scope 3 – Other Indirect Emissions

Potentially relevant Scope 3 categories include:

- Purchased goods and services
- Cleaning chemicals
- Cleaning consumables
- Maintenance materials
- Spare parts
- PPE
- Packaging
- Capital goods
- Fuel- and energy-related activities
- Upstream transportation
- Waste generated in operations
- Business travel
- Employee commuting
- Upstream leased assets, where applicable
- Downstream transportation
- Use of sold services, where material
- End-of-life treatment of products/materials
- Other relevant value-chain activities.

4.3 Entities and Locations Covered

The following organizational units should be included where under Cleanco's operational control:

Entity / Activity	Boundary Status
Corporate Office	Included
Administrative Offices	Included
Facility Management Operations	Included
Cleaning Operations	Included
Maintenance & Engineering	Included
Rope Access Operations	Included
Housemaid Services	Included
Residential Maintenance	Included
Auto Workshop	Included
Stores/Warehouse	Included
Company-Controlled Vehicles	Included
Client Premises	Contract-specific assessment
Third-Party Suppliers	Scope 3 where relevant
Third-Party Transport Providers	Scope 3 where relevant

4.4 Supply Chain Screening with Significance Assessment

GHG Protocol Category	Scope 3 Category	Applicability to Cleanco	Significance	Reason for Significance
Category 1	Purchased Goods & Services	Applicable	High	Significant procurement of cleaning chemicals, consumables, PPE, spare parts, maintenance materials and other services.
Category 2	Capital Goods	Applicable	Medium	Purchase of vehicles, machinery, cleaning equipment, engineering tools, workshop equipment and IT assets.
Category 3	Fuel- and Energy-Related Activities	Applicable	Medium	Upstream emissions associated with purchased electricity, fuels and energy consumed by Cleanco.
Category 4	Upstream Transportation & Distribution	Applicable	Medium	Transportation of purchased materials, chemicals, equipment, spare parts and other supplies from suppliers.
Category 5	Waste Generated in Operations	Applicable	High	Waste from cleaning, maintenance, engineering and auto workshop operations, including recyclable, hazardous and general waste.
Category 6	Business Travel	Applicable	Low	Employee air travel, taxis, hotels and other business travel activities.
Category 7	Employee Commuting	Applicable	High	Large operational workforce commuting between residences, offices and service locations.
Category 8	Upstream Leased Assets	Potentially Applicable	Low/Medium	Emissions from leased facilities or equipment where not already included in Scope 1 or 2.
Category 9	Downstream Transportation & Distribution	Not Significant	Low	Cleanco mainly provides services rather than distributing physical products to customers.

Category 10	Processing of Sold Products	Not Applicable	Not Significant	Cleanco does not primarily sell intermediate products requiring further processing.
Category 11	Use of Sold Products	Not Applicable	Not Significant	Cleanco's main outputs are services rather than products with significant emissions during customer use.
Category 12	End-of-Life Treatment of Sold Products	Not Applicable	Not Significant	Cleanco does not manufacture significant quantities of products requiring customer end-of-life treatment.
Category 13	Downstream Leased Assets	Potentially Applicable	Low	Relevant only where Cleanco-owned assets are leased to third parties and their emissions fall outside Scope 1 and 2.
Category 14	Franchises	Not Applicable	Not Significant	Cleanco's current business model does not materially involve franchise operations.
Category 15	Investments	Not Significant	Not Significant	No significant investment-related activities generating material financed emissions have been identified.

Significance Classification

Significance Level	Categories
High	Category 1, Category 5, Category 7
Medium	Category 2, Category 3, Category 4
Low / Medium	Category 8
Low	Category 6, Category 13
Not Significant / Not Applicable	Category 9, 10, 11, 12, 14, 15

Overall assessment: Cleanco should prioritize Purchased Goods & Services, Waste Generated in Operations, and Employee Commuting for detailed Scope 3 data collection and emissions reduction planning. Categories 2–4 should also be monitored and quantified where reliable activity data are available.

5. REPORTING PERIOD

5.1 Start Date and End Date

Start Date: 1 January 2025

End Date: 31 December 2025

Reporting Year: 2025

Base Year: 2024

The supplied Cleanco GHG data collection sheet explicitly identifies January–December 2025 as the reporting period and 2024 as the baseline year.

5.2 Frequency of Reporting

Cleanco should maintain the GHG inventory on an annual reporting cycle, supported by monthly or quarterly collection of activity data.

Recommended collection frequency:

Data	Frequency
Electricity	Monthly
Diesel	Monthly
LPG	Monthly
Natural Gas	Monthly
Refrigerant Top-ups	As required
Vehicle Mileage	Monthly
Waste	Monthly
Purchased Goods	Monthly
Supplier Data	Quarterly/Annually
Employee Commuting	Annually
Business Travel	Quarterly
Transport Data	Monthly
Capital Goods	Annually

6. GHG ACCOUNTING METHODOLOGY

6.1 Standards Followed

The inventory is structured according to:

- ISO 14064-1:2018 – Greenhouse gases – Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.
- GHG Protocol Corporate Accounting and Reporting Standard.
- GHG Protocol Scope 2 Guidance.
- GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard.
- IPCC Guidelines for National Greenhouse Gas Inventories.
- IPCC Global Warming Potential values.
- Applicable UAE electricity emission factors.
- Relevant internationally recognized emission factor databases.

The reference report supplied with the request also uses ISO 14064-1:2018 and the GHG Protocol and applies the activity-data × emission-factor methodology.

6.2 Calculation Approach

Cleanco's GHG emissions should be calculated using:

GHG Emissions = Activity Data × Emission Factor

Examples:

Diesel emissions = Litres of diesel × kg CO_2e/litre

Electricity emissions = kWh × kg CO_2e/kWh

Refrigerant emissions = kg refrigerant leaked × applicable GWP

Transportation emissions = tonne-km × transport emission factor

Employee commuting emissions = passenger-km × applicable emission factor

Waste emissions = tonnes of waste × waste treatment emission factor

Results are converted to:

Metric tonnes of carbon dioxide equivalent (tCO_2e).

6.3 Tools and Software

The recommended calculation system for Cleanco is:

- Microsoft Excel GHG Calculation Workbook
- Cleanco GHG Data Collection Sheet
- Finance ERP/accounting records
- Utility bills
- Fuel purchase records
- Fleet management records
- Maintenance management records
- Procurement records
- HR database
- Employee commuting survey
- Waste contractor records
- Supplier information
- Approved emission factor database.

7. EMISSION SOURCES IDENTIFICATION

7.1 Direct and Indirect Sources

Emission Source	Scope
DG diesel	Scope 1
Company vehicle diesel	Scope 1
LPG/propane	Scope 1
Natural gas	Scope 1
Furnace oil	Scope 1
Refrigerant leakage	Scope 1

Purchased electricity	Scope 2
Purchased cooling	Scope 2, if applicable
Cleaning chemicals	Scope 3
Cleaning consumables	Scope 3
Maintenance materials	Scope 3
Spare parts	Scope 3
PPE	Scope 3
Purchased equipment	Scope 3
Upstream transport	Scope 3
Waste treatment	Scope 3
Employee commuting	Scope 3
Business travel	Scope 3
Downstream/customer transport	Scope 3
End-of-life materials	Scope 3

7.2 Emission Source Mapping

Operational Area	Emission Source	Scope
Corporate Office	Purchased electricity	Scope 2
Cleaning Operations	Service vehicles	Scope 1
Facility Management	Electricity/fuel	Scope 1/2
Engineering	Fuel/electricity	Scope 1/2
Rope Access	Transport/fuel	Scope 1
Housemaid Services	Employee transportation	Scope 3
Residential Maintenance	Service vehicles/materials	Scope 1/3
Auto Workshop	Electricity/fuel/refrigerants	Scope 1/2
Workshop Waste	Waste treatment	Scope 3

Procurement	Purchased goods	Scope 3
Employee Transport	Commuting	Scope 3
Supplier Transport	Inbound logistics	Scope 3
Customer Transport	Downstream logistics	Scope 3

8. GHG SCOPE CLASSIFICATION

8.1 SCOPE 1 – DIRECT EMISSIONS

Scope 1 consists of GHG emissions from sources owned or controlled by Cleanco.

8.1.1 Stationary Combustion

Potential sources:

- Diesel generators;
- LPG equipment;
- Natural gas equipment;
- Furnace oil equipment;
- Workshop combustion equipment.

8.1.2 Mobile Combustion

Potential sources:

- Company cars;
- Service vehicles;
- Maintenance vehicles;
- Cleaning service vehicles;
- Rope-access support vehicles;
- Residential maintenance vehicles;
- Workshop vehicles;
- Other Cleanco-controlled vehicles.

8.1.3 Fugitive Emissions

Relevant sources include:

- Split air-conditioning systems;
- Central HVAC systems;
- Chillers;
- Workshop AC systems;
- Refrigeration equipment;
- Vehicle air-conditioning systems;
- Other equipment containing HFC refrigerants.

The data collection sheet identifies refrigerant top-ups as a Scope 1 parameter.

8.1.4 Process Emissions

No significant process-emission source has been identified from the information supplied.

Any process emissions associated with workshop activities should be reviewed during the annual source screening.

8.1.5 Scope 1 Result

Reported Scope 1 emissions: 2,191.60 tCO_2e

The submitted checklist provides the Scope 1 total but does not provide sufficient source-level activity data to independently allocate the 2,191.60 tCO_2e among DG sets, vehicles, LPG, natural gas and refrigerants.

Gas-wise Contribution – Scope 1

Gas	2025 Emissions
CO_2	To be confirmed from source calculation
CH_4	To be confirmed
N_2O	To be confirmed
HFCs	To be confirmed
Total	2,191.60 tCO_2e

8.2 SCOPE 2 – INDIRECT ENERGY EMISSIONS

8.2.1 Purchased Electricity

Electricity consumption represents indirect emissions from electricity purchased for Cleanco-controlled operations.

Potential electricity-consuming systems include:

- Offices
- HVAC
- Lighting
- Computers and IT
- Workshops
- Cleaning equipment
- Maintenance equipment
- Compressors
- Pumps
- Auto workshop equipment
- Battery charging
- Other electrical machinery.

8.2.2 Purchased Steam/Heat/Cooling

No purchased steam or purchased heat data were identified in the supplied checklist.

Purchased cooling should be reviewed for locations where district cooling or centralized cooling services are purchased.

8.2.3 Scope 2 Result

Scope 2 Method	Emissions
Location-Based	2,864.37 tCO_2e
Market-Based	2,864.37 tCO_2e

Solar Generation	Not provided
Purchased Renewable Electricity	Not provided

The data collection sheet reports both location-based and market-based Scope 2 emissions at 2,864.37 tCO_2e.

Gas-wise Contribution – Scope 2

Gas	Emissions
CO_2	To be confirmed from electricity emission-factor calculation
CH_4	To be confirmed
N_2O	To be confirmed
Total CO_2e	2,864.37 tCO_2e

8.3 SCOPE 3 – OTHER INDIRECT EMISSIONS

Scope 3 is the largest part of Cleanco's reported GHG inventory.

8.3.1 Scope 3 Summary

Scope 3 Component	Emissions
Upstream Scope 3	23,616.70 tCO_2e
Downstream Scope 3	5,480.21 tCO_2e
Total Scope 3	29,096.91 tCO_2e

The supplied Cleanco checklist directly reports these three values.

8.3.2 Potential Upstream Categories

Category 1 – Purchased Goods and Services

Relevant Cleanco purchases may include:

- Cleaning chemicals;
- Cleaning materials;

- Paper products;
- Tissue products;
- PPE;
- Uniforms;
- Tools;
- Maintenance materials;
- Electrical components;
- Plumbing materials;
- Mechanical components;
- Spare parts;
- Workshop consumables;
- Office supplies.

Category 2 – Capital Goods

Potential sources:

- Vehicles;
- Cleaning machinery;
- Workshop machinery;
- Lifting equipment;
- Engineering equipment;
- IT equipment;
- Facility management equipment.

Category 3 – Fuel- and Energy-Related Activities

Includes upstream emissions associated with:

- Production of diesel;
- Production of petrol;
- Production of LPG;

- Production of natural gas;
- Fuel transportation;
- Electricity generation and transmission.

Category 4 – Upstream Transportation

Includes transportation of purchased:

- Cleaning materials;
- Chemicals;
- Spare parts;
- Engineering materials;
- Workshop materials;
- Equipment;
- PPE;
- Consumables.

The Cleanco checklist specifically requests transport distance from suppliers to Cleanco.

Category 5 – Waste Generated in Operations

Potential waste streams:

- General waste;
- Plastic;
- Paper/cardboard;
- Metal;
- Used oils;
- Used filters;
- Workshop waste;
- Chemical containers;
- Electronic waste;
- Packaging waste.

Category 6 – Business Travel

Includes:

- Air travel;
- Hotel-related travel where relevant;
- Taxi;
- Rental cars;
- Rail travel;
- Other business transportation.

Category 7 – Employee Commuting

Includes:

- Private cars;
- Company buses;
- Public transportation;
- Shared transport;
- Taxi;
- Other commuting modes.

The checklist specifically requests average employee commuting distance and total number of employees.

8.3.3 Downstream Categories

Potential downstream sources include:

- Transportation of materials/equipment to customers;
- Contractor/customer logistics;
- Waste and end-of-life treatment of relevant products/materials;
- Downstream transportation associated with Cleanco's service supply chain.

The Cleanco data sheet identifies transport from Cleanco to customers and quantity of finished products/services sold as relevant data fields.

9. GHG DATA COLLECTION & QUALITY

9.1 Data Sources and Collection Method

Cleanco should collect activity data from original records wherever available.

Primary Data Sources

Emission Source	Data Source
DG Diesel	Fuel invoices / DG logbooks
Vehicle Fuel	Fuel cards / invoices / vehicle logs
LPG	Purchase invoices
Natural Gas	Utility bills
Refrigerants	HVAC maintenance records
Electricity	Utility bills
Purchased Goods	Purchase orders / invoices
Transportation	Logistics records
Waste	Waste contractor records
Employee Commuting	HR records / survey
Business Travel	Travel claims
Capital Goods	Procurement records
Packaging	Stores records

9.2 Data Collection Procedure

- Identify all emission sources.
- Assign data ownership to departments.
- Collect monthly activity data.
- Obtain supporting invoices and records.
- Review completeness.
- Remove duplicate entries.
- Convert units into standardized units.

- Select emission factors.
- Calculate emissions.
- Conduct internal verification.
- Review abnormal changes.
- Obtain management approval.
- Archive supporting evidence.

9.3 Data Accuracy, Completeness and Reliability

Data quality should be assessed using:

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

Primary invoices and utility bills should receive a High data-quality rating.

Supplier-estimated Scope 3 information should generally receive Medium until supplier-specific data become available.

Employee commuting survey data should be rated Medium to High, depending on survey coverage.

10. EMISSION FACTORS

10.1 Sources of Emission Factors

Cleanco should prioritize emission factors in the following hierarchy:

- UAE-specific emission factors
- Supplier-specific verified factors
- DEFRA conversion factors
- IPCC Guidelines

- GHG Protocol calculation tools
- Recognized electricity grid emission factors
- Recognized refrigerant GWP values.

The reference report uses IPCC, DEFRA, GHG Protocol and UAE electricity-grid factors for the corresponding source categories.

10.2 Emission Factor Selection

Source	Preferred Reference
Diesel	IPCC / DEFRA
Petrol	IPCC / DEFRA
LPG	IPCC
Natural Gas	IPCC / DEFRA
Electricity	UAE-specific grid factor
Refrigerants	IPCC GWP
Waste	DEFRA / recognized waste factors
Business Travel	DEFRA / GHG Protocol
Employee Commuting	DEFRA / GHG Protocol
Freight	DEFRA / GHG Protocol
Purchased Goods	Supplier-specific / GHG Protocol

10.3 Units

Activity	Unit
Diesel	Litres
Petrol	Litres
LPG	kg/cylinder
Natural Gas	m^3
Electricity	kWh
Refrigerant	kg
Waste	tonnes

Transport	km / tonne-km
Employee Commuting	passenger-km
Business Travel	passenger-km
Purchased Goods	kg / tonnes / spend

11. CALCULATION RESULTS

11.1 Total GHG Emissions

Corporate GHG Inventory – 2025

Scope	Emissions (tCO_2e)	% of Total
Scope 1	2,191.60	6.42%
Scope 2	2,864.37	8.39%
Scope 3	29,096.91	85.19%
Total	34,152.88	100.00%

Scope 3 Breakdown

Component	tCO_2e	% of Total
Upstream Scope 3	23,616.70	69.15%
Downstream Scope 3	5,480.21	16.04%
Total Scope 3	29,096.91	85.19%

Key Result

Cleanco's 2025 reported organizational carbon footprint = 34,152.88 tCO_2e.

The Scope 3 inventory is the dominant component, representing approximately 85.19% of the total footprint.

11.2 Emission Breakdown by Source

The available data support the following source-level classification:

Source Group	Scope	Emissions
Direct fuel combustion and refrigerants	Scope 1	2,191.60
Purchased electricity	Scope 2	2,864.37
Upstream value chain	Scope 3	23,616.70
Downstream value chain	Scope 3	5,480.21
Total	34,152.88	

A more detailed source-level numerical allocation should only be added after Cleanco provides the underlying diesel, electricity, refrigerant, procurement, transportation, waste and commuting activity quantities.

11.3 Emission Intensity Indicators

The supplied data sheet does not provide the total number of Cleanco employees. Therefore, the employee-based intensity cannot be calculated reliably from the submitted data.

Required Indicator

Total GHG emissions per employee = 34,152.88 ÷ total employees

Once the verified 2025 employee count is inserted, Cleanco should report:

- Total tCO_2e/employee
- Scope 1 tCO_2e/employee
- Scope 2 tCO_2e/employee
- Scope 3 tCO_2e/employee.

Additional recommended indicators include:

- tCO_2e per facility managed

- tCO_2e per service contract
- tCO_2e per million AED revenue
- tCO_2e per vehicle
- tCO_2e per service hour
- kWh per employee
- litres of fuel per service vehicle.

12. BASE YEAR & TREND ANALYSIS

12.1 Base Year Selection and Justification

Base Year: 2024

The 2024 baseline has been specified in the Cleanco GHG data collection checklist.

The base year should be retained as the reference year for future GHG performance measurement.

The base year should be recalculated where material changes occur, including:

- Acquisitions
- Divestments
- Major restructuring
- Significant outsourcing or insourcing
- Changes in organizational boundary
- Material calculation errors
- Significant methodology changes
- Material changes in emission factors.

12.2 Historical Comparison

The submitted Cleanco checklist does not contain quantified 2024 Scope 1, Scope 2 and Scope 3 emissions.

Therefore:

Year	Scope 1	Scope 2	Scope 3	Total
2024 Base Year	To be established	To be established	To be established	To be established
2025	2,191.60	2,864.37	29,096.91	34,152.88

The 2024 activity data should be reconstructed using the same organizational boundary and methodology before calculating a year-on-year percentage change.

12.3 Trend Analysis

For future reporting, Cleanco should calculate:

Annual Change (%) = [(Current Year Emissions – Base Year Emissions) ÷ Base Year Emissions] × 100

The trend should be calculated separately for:

Scope 1

- Scope 2
- Scope 3
- Total GHG emissions
- GHG intensity per employee
- GHG intensity per revenue
- Fuel intensity
- Electricity intensity.

13. UNCERTAINTY ASSESSMENT

13.1 Purpose

The uncertainty assessment evaluates potential variation arising from:

- Activity data
- Meter accuracy
- Supplier information

- Emission factors
- Employee commuting assumptions
- Transportation distances
- Refrigerant leakage estimates
- Waste quantities
- Calculation methodology.

13.2 Key Sources of Uncertainty

For Cleanco, the most relevant uncertainty areas are expected to include:

- Employee commuting distances.
- Supplier Scope 3 information.
- Transportation distances.
- Purchased goods emission factors.
- Refrigerant leakage estimates.
- Waste quantities.
- Electricity emission factor selection.
- Fuel records where vehicle-specific records are incomplete.
- Client-site energy allocation.
- Contractor-provided data.

13.3 Indicative Data Quality and Uncertainty

The following ratings are recommended for the initial inventory and should be refined after verification:

Emission Source	Data Quality	Indicative Uncertainty
Electricity	High	±2–5%
Fuel	High/Medium	±3–5%
Refrigerants	Medium	±10–15%
Purchased Goods	Medium	±10–20%

Transportation	Medium	±8–15%
Waste	Medium	±8–15%
Employee Commuting	Medium	±15–25%
Business Travel	Medium	±10–15%

These are inventory planning estimates, not measured uncertainty values.

13.4 Confidence Level

Until the underlying activity records have been independently reviewed, the Cleanco inventory should be described as having:

Preliminary confidence level: Moderate

A final confidence statement should be issued after:

- Source-document verification
- Calculation review
- Emission-factor validation
- Boundary confirmation
- Duplicate-data checks
- Management review.

14. DATA QUALITY ASSESSMENT

14.1 Data Quality Rating

Data Category	Expected Rating	Required Evidence
Electricity	High	Utility bills
Diesel	High	Fuel invoices/cards
LPG	High	Supplier invoices

Natural Gas	High	Utility records
Refrigerants	Medium	Maintenance reports
Purchased Goods	Medium	Procurement records
Transportation	Medium	Logistics records
Waste	Medium	Waste contractor records
Employee Commuting	Medium	HR/survey data
Business Travel	Medium	Travel records
Capital Goods	Medium	Procurement records

14.2 Quality Control Checks

- Cleanco should perform:
- Invoice-to-register reconciliation
- Electricity bill-to-accounting reconciliation
- Fuel invoice-to-vehicle log reconciliation
- Refrigerant purchase-to-maintenance reconciliation
- Procurement-to-finance reconciliation
- Waste records-to-contractor invoices reconciliation
- Employee database-to-commuting survey reconciliation
- Transport distance validation
- Duplicate data checks
- Spreadsheet formula checks
- Emission factor version checks
- Boundary review
- Management review.

15. GHG REDUCTION INITIATIVES

15.1 Energy Efficiency Programs

Cleanco should implement:

- LED lighting conversion
- HVAC efficiency improvement
- Preventive HVAC maintenance
- Temperature set-point control
- Energy-efficient motors
- High-efficiency cleaning equipment
- Automatic lighting controls
- Occupancy sensors
- Equipment shutdown procedures
- Monthly electricity monitoring
- Energy-performance benchmarking
- Energy audits.

15.2 Fleet and Fuel Efficiency

Recommended actions:

- Preventive vehicle maintenance
- Tyre pressure monitoring
- Eco-driving training
- Route optimization
- Vehicle utilization monitoring
- Reduction of unnecessary idling
- Consolidation of service trips
- Vehicle right-sizing
- Fuel consumption monitoring
- Evaluation of hybrid/electric vehicles.

15.3 Refrigerant Management

Cleanco should:

- Maintain a refrigerant register
- Record refrigerant type and quantity
- Record every refrigerant top-up
- Conduct leak testing
- Repair leaks promptly
- Use lower-GWP refrigerants during equipment replacement
- Include refrigerant performance in maintenance KPIs.

15.4 Waste Reduction

Recommended measures include:

- Source segregation
- Recycling of cardboard
- Plastic recycling
- Metal recycling
- Used-oil recovery
- E-waste recycling
- Reduction of single-use materials
- Chemical-container recovery
- Digital documentation
- Waste contractor performance monitoring.

15.5 Sustainable Procurement

Cleanco should integrate carbon criteria into procurement by:

- Selecting low-carbon cleaning products
- Purchasing concentrated chemicals where practical
- Selecting recyclable packaging
- Purchasing energy-efficient equipment

- Evaluating supplier environmental performance
- Requesting supplier GHG information
- Increasing local sourcing where practical
- Including environmental requirements in supplier contracts.

15.6 Employee Engagement

Programmes should include:

- Energy conservation training
- Eco-driving training
- Waste segregation awareness
- Sustainable commuting awareness
- Digital documentation
- Environmental toolbox talks
- GHG awareness training.

15.7 Future Sustainability Goals

Recommended targets for management consideration:

Target	Proposed Timeline
Reduce Scope 1 emissions	10% by 2030
Reduce electricity-related emissions	15% by 2030
Reduce fleet fuel intensity	15% by 2030
Increase waste recycling	≥90% by 2030
Introduce low-emission vehicles	Progressive to 2030
Increase renewable electricity	Progressive to 2030
Supplier GHG engagement	80% key suppliers by 2030
Establish Net Zero roadmap	By 2030

These targets are proposed management objectives and should not be presented as achieved commitments until formally approved by Cleanco management.

16. CONCLUSIONS

16.1 Summary of GHG Performance

Cleanco's reported 2025 greenhouse gas inventory totals: 34,152.88 tCO_2e

The inventory comprises:

- Scope 1: 2,191.60 tCO_2e
- Scope 2: 2,864.37 tCO_2e
- Scope 3: 29,096.91 tCO_2e.

Scope 3 accounts for approximately 85.19% of the total reported footprint and therefore represents the most significant area for future carbon reduction.

The Cleanco data sheet confirms the Scope 3 upstream value of 23,616.70 tCO_2e and downstream value of 5,480.21 tCO_2e.

16.2 Successes and Opportunities

The principal opportunities identified are:

- Reduction of purchased electricity consumption.
- Fleet fuel-efficiency improvement.
- Refrigerant leakage reduction.
- Sustainable procurement.
- Supplier carbon-data collection.
- Lower-carbon cleaning products.
- Sustainable maintenance materials.
- Employee commuting improvements.
- Waste reduction and recycling.
- Renewable electricity.
- Electrification of the vehicle fleet.

16.3 Plan for Next Reporting Period

During the next reporting cycle Cleanco should:

PLAN – 2026

P – Prepare

- Confirm organizational boundaries.
- Confirm all controlled facilities.
- Establish monthly GHG data registers.
- Validate 2024 baseline data.

L – Locate

- Identify significant emission sources.
- Identify high-emission service contracts.
- Identify high-emission procurement categories.

A – Act

- Implement electricity reduction projects.
- Improve vehicle fuel efficiency.
- Strengthen refrigerant management.
- Introduce sustainable procurement requirements.
- Increase recycling.

N – Normalize

- Report GHG performance monthly/quarterly.
- Review emission intensity.
- Conduct annual internal GHG verification.
- Update reduction targets.
- Prepare the next annual GHG report.

17. APPENDICES

17.1 APPENDIX A – ACTIVITY DATA TABLE

Parameter	Unit	2025 Data Status
DG Diesel	Litres	To be confirmed
Furnace Oil	Litres	To be confirmed
LPG/Propane	kg/cylinders	To be confirmed
Natural Gas	m^3	To be confirmed
Company Vehicle Diesel	Litres	To be confirmed
Refrigerant Top-ups	kg	To be confirmed
Purchased Electricity	kWh	To be confirmed
Solar Generation	kWh	Not provided
Raw Materials	kg/MT	To be confirmed
Packaging	kg/MT	To be confirmed
Employee Commuting	km/day	To be confirmed
Number of Employees	persons	To be confirmed
Upstream Transport	km	To be confirmed
Downstream Transport	km	To be confirmed
Quantity of Services/Products	relevant unit	To be confirmed

The submitted checklist contains these activity-data fields but does not provide the underlying quantities for most of them.

17.2 APPENDIX B – GHG CALCULATION SUMMARY

Scope	Reported Emissions
Scope 1	2,191.60 tCO_2e
Scope 2	2,864.37 tCO_2e
Scope 3 – Upstream	23,616.70 tCO_2e
Scope 3 – Downstream	5,480.21 tCO_2e
Total Scope 3	29,096.91 tCO_2e
Total GHG Emissions	34,152.88 tCO_2e

17.3 APPENDIX C – SCOPE 3 CATEGORY SCREENING

GHG Protocol Scope 3 Category	Applicability	Status
1. Purchased Goods & Services	Yes	Included
2. Capital Goods	Yes	Included where material
3. Fuel & Energy Related Activities	Yes	Included
4. Upstream Transportation & Distribution	Yes	Included
5. Waste Generated in Operations	Yes	Included
6. Business Travel	Yes	Included where applicable
7. Employee Commuting	Yes	Included
8. Upstream Leased Assets	Review	To be assessed
9. Downstream Transportation & Distribution	Yes	Included
10. Processing of Sold Products	Generally limited	Review

11. Use of Sold Products	Generally limited for services	Review
12. End-of-Life Treatment	Yes, where relevant	Review
13. Downstream Leased Assets	Review	To be assessed
14. Franchises	Review	To be assessed

17.4 APPENDIX D – EMISSION FACTOR REFERENCE FRAMEWORK

Emission Source	Reference
Diesel	IPCC / DEFRA
Petrol	IPCC / DEFRA
LPG	IPCC
Natural Gas	IPCC / DEFRA
Electricity	UAE Grid Emission Factor
Refrigerants	IPCC GWP
Waste	DEFRA / recognized factor database
Employee Commuting	DEFRA / GHG Protocol
Business Travel	DEFRA / GHG Protocol
Transportation	DEFRA / GHG Protocol
Purchased Goods	GHG Protocol Scope 3 Guidance
Supplier-specific Data	Supplier PCF/EPD/verified factor where available

The reference material supplied for the requested report follows a similar hierarchy, prioritizing UAE-specific factors where available and using IPCC/DEFRA internationally recognized factors where local factors are unavailable.

17.5 APPENDIX E – DEFINITIONS AND ABBREVIATIONS

Term	Definition
GHG	Greenhouse Gas
CO_2	Carbon Dioxide
CH_4	Methane
N_2O	Nitrous Oxide
HFC	Hydrofluorocarbon
CO_2e	Carbon Dioxide Equivalent
tCO_2e	Metric Tonnes of Carbon Dioxide Equivalent
GWP	Global Warming Potential
ISO	International Organization for Standardization
ESG	Environmental, Social and Governance
HSE	Health, Safety and Environment
HVAC	Heating, Ventilation and Air Conditioning
DG	Diesel Generator
Scope 1	Direct GHG emissions
Scope 2	Indirect emissions from purchased energy
Scope 3	Other indirect value-chain emissions
REC	Renewable Energy Certificate
PPA	Power Purchase Agreement

17.6 APPENDIX F – REFERENCE STANDARDS

The GHG inventory should be maintained with reference to:

1. ISO 14064-1:2018 – Greenhouse gases – ISO 14064-1:2018 Official Page
2. GHG Protocol Corporate Accounting and Reporting Standard - GHG Protocol Corporate Standard
3. GHG Protocol Scope 2 Guidance - GHG Protocol Scope 2 Guidance
4. GHG Protocol Corporate Value Chain (Scope 3) Standard - GHG Protocol Corporate Value Chain (Scope 3) Standard
5. IPCC Guidelines for National Greenhouse Gas Inventories - IPCC Inventory Guidelines
6. IPCC Global Warming Potential (GWP) Values - IPCC Sixth Assessment Report (AR6)
7. Applicable UAE Electricity Emission Factors - UAE Ministry of Climate Change and Environment (MOCCAE)
8. DEFRA Greenhouse Gas Conversion Factors - UK Government GHG Conversion Factors for Company Reporting
9. Applicable UAE Environmental and Climate-related Requirements - UAE Ministry of Climate Change and Environment (MOCCAE)

These are the most commonly accepted references for preparing a corporate GHG inventory in accordance with ISO 14064-1, the GHG Protocol, and international best practices.

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 : Harini Ravivarman

Signature :

Designation : Executive Operations

Date : 04th March, 2026

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DUBAI - U.A.E.
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