



URBAN LANDSCAPING LLC

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United Arab Emirates.

GHG EMISSION REPORT

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1. EXECUTIVE SUMMARY

1.1 Overview of the Organization and Reporting Period

Urban Landscapes LLC is a UAE-based organization specializing in landscaping works, land preparation, irrigation system installation and maintenance, agricultural equipment and machinery trading, tree seedlings, ornamental plants, annual flowers, agricultural tools, and landscape maintenance services. The company integrates Environmental, Social, and Governance (ESG) principles into its business strategy and recognizes climate change mitigation as a key component of sustainable business growth.

This Greenhouse Gas (GHG) Emission Report presents the organization's GHG inventory for the reporting period from 1 January 2025 to 31 December 2025. The inventory has been developed following the requirements of ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard, using the operational control approach for defining organizational boundaries. The report establishes Urban Landscapes LLC's corporate carbon footprint and provides a baseline for future emission reduction initiatives.

1.2 Key Emission Results

The GHG inventory includes direct emissions (Scope 1), Indirect Energy Emissions (Location-based and Market-based), and other indirect value chain emissions (Scope 3).

Scope	Emissions (tCO ₂ e)	Contribution
Scope 1 – Direct Emissions	2,561.78	51.62%
Scope 2 – Location-based	34.45	0.69%
Scope 2 – Market-based	34.45	0.69%
Scope 3 – Other Indirect Emissions	2,373.00	47.69%
Total Corporate Carbon Footprint (Location-based)	4,969.23	100%
Total Corporate Carbon Footprint (Market-based)	4,969.23	100%

Major emission contributors include:

- Diesel consumption by company vehicles and mobile equipment.
- Fuel consumption by landscaping machinery.
- Employee transportation.
- Transportation of landscaping materials and agricultural equipment.
- Purchased materials and waste disposal.

1.3 Highlights and Reduction Achievements

During the reporting year, Urban Landscapes LLC strengthened its ESG framework by integrating greenhouse gas management into operational planning. The organization established its first corporate GHG inventory in accordance with internationally recognized standards and identified the principal emission sources across its operations.

Key achievements include:

- Establishment of the corporate GHG baseline.
- Identification of significant Scope 1 and Scope 3 emission sources.
- Implementation of preventive vehicle maintenance to improve fuel efficiency.
- Expansion of water-efficient irrigation systems for client projects.
- Increased use of native and drought-resistant plant species to reduce lifecycle environmental impacts.
- Promotion of waste segregation and recycling at operational sites.
- Development of a roadmap for continuous carbon footprint reduction.

2. INTRODUCTION

2.1 Purpose of the Report

The purpose of this report is to quantify, document, and communicate Urban Landscapes LLC's greenhouse gas emissions generated during the 2025 reporting period. The report establishes an organizational carbon footprint baseline, supports informed decision-making, identifies emission hotspots, and enables the organization to monitor future improvements. The report also demonstrates the company's commitment to climate action, sustainable operations, and continual environmental performance improvement.

2.2 Intended Users

This report has been prepared for both internal and external stakeholders, including:

- Senior Management
- Employees
- Customers
- Government Authorities
- Investors
- Financial Institutions
- ESG Rating Agencies
- Certification Bodies
- External Auditors
- Business Partners
- Suppliers
- Clients requiring sustainability reporting

2.3 Reporting Objectives

The objectives of this GHG emission report are to:

- Quantify corporate greenhouse gas emissions.
- Comply with ISO 14064-1 requirements.
- Align with the GHG Protocol Corporate Standard.
- Meet customer sustainability requirements.
- Support ESG reporting and disclosure.
- Establish a baseline year for future comparison.

GHG EMISSION REPORT

- Identify emission reduction opportunities.
- Improve environmental performance.
- Enhance transparency in climate-related reporting.
- Support long-term Net Zero planning.

3. GHG EMISSIONS SUMMARY

3.1 Organizational Boundaries

This GHG Emission Report covers all activities under Urban Landscapes LLC operational control, including:

P. O Box: 213690, Al Joud Center, Office-112 Shk, Zayed Road, 15A Street, Al Quoz Ind. Area-01, Dubai,
United Arab Emirates.

3.2 Reporting Boundary & Scope Definition

Scope	Included Activities	Justification
Scope 1 – Direct Emissions	Fuel used in company vehicles, landscaping equipment, tractors, generators, and refrigerant leakage from air-conditioning systems.	These emissions are generated from sources owned or controlled by Urban Landscapes LLC and are reported as Scope 1 emissions.
Scope 2 – Indirect Energy Emissions (Location-based)	Purchased electricity used in offices, plant nursery, warehouses, workshops, and operational facilities.	Emissions are calculated using the Location-based method, which applies the average UAE national grid electricity emission factor to all purchased electricity consumed by Urban Landscapes LLC. The reported Location-based Scope 2 emissions are 34.45 tCO ₂ e.
Scope 2 – Indirect Energy Emissions (Market-based)	Purchased electricity used in offices, plant nursery, warehouses, workshops, and operational facilities.	Emissions are calculated using the Market-based method, which reflects emissions associated with contractual electricity purchasing instruments such as supplier-specific emission factors, Renewable Energy Certificates (RECs/I-RECs), or renewable electricity purchase agreements. During the reporting period, Urban Landscapes LLC did not purchase renewable electricity or Energy Attribute Certificates and generated 0 kWh of on-site solar electricity. Therefore, the Market-based Scope 2 emissions are 34.45 tCO ₂ e, which are identical to the Location-based emissions.

Scope 3 – Other Indirect Emissions	Purchased goods and services, transportation, waste disposal, employee commuting, business travel, and product distribution.	These emissions occur from activities within the company's value chain but are outside its direct operational control.
Scope 3 – Upstream Activities	Purchased materials, supplier transportation, employee commuting, business travel, fuel-related activities, and operational waste.	These activities occur before products and services reach the company and contribute to indirect emissions.
Scope 3 – Downstream Activities	Delivery of products and services to customers and end-of-life treatment of packaging materials.	These emissions occur after products and services leave the company's operational control and are included as downstream Scope 3 emissions.

3.3 Scope 3 Category Inclusion Table

Sl. No.	Scope 3 Category	Included (Yes/No)	Justification
1	Purchased Goods & Services	Yes	Procurement of landscaping materials, ornamental plants, tree seedlings, irrigation equipment, fertilizers, agricultural tools, machinery, and other operational supplies contributes significantly to upstream GHG emissions.
2	Capital Goods	No	No significant purchase of new buildings, heavy construction equipment, or major capital assets occurred during the reporting period that would materially impact the GHG inventory.
3	Fuel & Energy-Related Activities (Not Included in Scope 1 & 2)	Yes	Includes upstream emissions associated with the extraction, production, transportation, and distribution of fuels consumed by company vehicles and equipment, as well as transmission and distribution losses from purchased electricity.
4	Upstream Transportation & Distribution	Yes	Transportation of landscaping materials, plants, irrigation components, agricultural equipment, and other purchased goods from suppliers to Urban Landscapes LLC facilities contributes to indirect emissions.
5	Waste Generated in Operations	Yes	Disposal and treatment of green waste, packaging materials, plastic pots, irrigation pipes, scrap materials, office waste, and other operational waste generate indirect GHG emissions.
6	Business Travel	Yes	Business travel by management and employees for client meetings, supplier visits, project inspections, training, and business development contributes to Scope 3 emissions.
7	Employee Commuting	Yes	Daily commuting of employees using private vehicles, company transport, buses, and shared transportation contributes to indirect greenhouse gas emissions.
8	Upstream Leased Assets	No	Urban Landscapes LLC does not operate significant upstream leased assets outside its operational control during the reporting period.
9	Downstream Transportation & Distribution	Yes	Transportation and delivery of landscaping materials, plants, agricultural equipment, and related products to customers and project sites generate downstream transportation emissions.

10	Processing of Sold Products	No	Landscaping services, irrigation installations, and traded products do not require additional processing by customers that would result in material greenhouse gas emissions attributable to the organization.
11	Use of Sold Products	No	The normal use of sold landscaping materials, ornamental plants, agricultural tools, and irrigation equipment does not generate direct greenhouse gas emissions attributable to Urban Landscapes LLC.
12	End-of-Life Treatment of Sold Products	Yes	Disposal or recycling of packaging materials, plastic containers, irrigation components, and other product packaging at the end of their useful life contributes to indirect emissions.
13	Downstream Leased Assets	No	Urban Landscapes LLC does not own or operate downstream leased assets that fall within the Scope 3 reporting boundary.
14	Franchises	No	The organization does not operate under a franchise business model.
15	Investments	No	No investment-related activities requiring Scope 3 greenhouse gas accounting were identified during the reporting period.

4. ORGANIZATION DESCRIPTION

4.1 Company Profile

Urban Landscapes LLC is a UAE-based company providing landscaping works, irrigation system installation and maintenance, land preparation, agricultural equipment and machinery trading, tree seedlings, ornamental plants, annual flowers, agricultural tools, and landscape maintenance services.

The company serves commercial, residential, industrial, and government clients while integrating Environmental, Social, and Governance (ESG) principles into its operations to promote sustainable landscaping and environmental responsibility.

4.2 Organizational Structure

Urban Landscapes LLC operates through the following departments:

- Managing Director
- General Manager
- ESG & Sustainability
- Finance & Administration
- Human Resources
- Procurement
- Projects
- Landscaping Operations
- Irrigation Division
- Plant Nursery
- Agricultural Equipment Trading
- Fleet Management
- Stores & Warehouse
- Maintenance
- HSE
- Quality Assurance

These departments support GHG data collection through fuel records, electricity bills, procurement records, fleet information, and operational data.

4.3 Operations, Facilities and Boundaries

This GHG inventory covers all operations under the operational control of Urban Landscapes LLC in the UAE.

Included facilities and operations:

- Head Office
- Operational Offices
- Plant Nursery

- Warehouses
- Maintenance Workshop
- Equipment Storage Areas
- Company Vehicle Fleet
- Landscaping and Irrigation Project Sites

The inventory includes emissions from fuel consumption, electricity use, company vehicles, landscaping equipment, procurement, transportation, waste management, employee commuting, and other relevant operational activities.

5. REPORTING BOUNDARY

5.1 Organizational Boundary

Urban Landscapes LLC has adopted the Operational Control Approach in accordance with ISO 14064-1 and the GHG Protocol Corporate Standard. Under this approach, the organization accounts for 100% of greenhouse gas emissions arising from operations over which it has operational control, regardless of ownership. Activities performed by contractors or subcontractors that are not under the company's operational control are excluded unless specifically accounted for under applicable Scope 3 categories.

5.2 Operational Boundary

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

Scope	Included Activities
Scope 1	Diesel consumption by company vehicles, construction and landscaping equipment, mobile generators, refrigerant leakage from HVAC systems
Scope 2 (Location-based)	Purchased electricity consumed in offices, warehouses, nurseries, workshops, and operational facilities, quantified using the average UAE national grid electricity emission factor.
Scope 2 (Market-based)	Purchased electricity consumed in offices, warehouses, nurseries, workshops, and operational facilities, quantified using contractual electricity purchasing instruments where applicable. During the reporting period, no renewable electricity, Renewable Energy Certificates (RECs/I-RECs), or other contractual instruments were purchased, and no on-site solar electricity was generated (0 kWh). Therefore, the Market-based Scope 2 emissions are identical to the Location-based emissions.
Scope 3	Purchased goods and services, transportation, logistics, waste disposal, employee commuting, business travel, upstream fuel activities, downstream transportation, and end-of-life treatment of products where applicable

5.3 Entities and Locations Covered

This report includes all facilities and operations that are under the operational control of Urban Landscapes LLC during the reporting period.

Entity	Included
Corporate Head Office	✓
Landscape Operations	✓
Irrigation Division	✓
Plant Nursery	✓
Agricultural Equipment Warehouse	✓
Maintenance Workshop	✓
Company Vehicle Fleet	✓
Landscaping Project Sites	✓
Temporary Operational Facilities	✓

6. REPORTING PERIOD

6.1 Reporting Period

This Greenhouse Gas (GHG) Emission Report covers the period from 1 January 2025 to 31 December 2025. The reporting period represents a complete calendar year and includes all operational activities undertaken by Urban Landscapes LLC within its defined organizational and operational boundaries. All greenhouse gas emissions generated from direct fuel consumption, purchased electricity, and relevant value chain activities during this period have been quantified and reported in accordance with ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

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

6.2 Frequency of Reporting

Urban Landscapes LLC prepares and maintains its organizational greenhouse gas inventory on an annual basis. Annual reporting enables the organization to evaluate year-on-year emission trends, assess the effectiveness of emission reduction initiatives, support ESG reporting, respond to customer sustainability requirements, and facilitate continual improvement in environmental performance. The annual reporting cycle also supports future third-party verification and benchmarking against industry best practices.

7. GHG ACCOUNTING METHODOLOGY

7.1 Standards Followed

The GHG inventory has been developed using internationally recognized greenhouse gas accounting principles to ensure consistency, transparency, completeness, relevance, and accuracy.

The following standards and guidance documents were used:

- ISO 14064-1:2018 – Greenhouse Gases – 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 Corporate Value Chain (Scope 3) Standard.
- IPCC 2006 Guidelines for National Greenhouse Gas Inventories.
- IPCC AR5/AR6 Global Warming Potential (GWP) values where applicable.
- DEFRA Greenhouse Gas Conversion Factors.
- UAE National Grid Electricity Emission Factor.

7.2 GHG Accounting Principles

The GHG inventory has been prepared using the following accounting principles:

- Relevance
- Completeness
- Consistency
- Accuracy
- Transparency
- Conservativeness

These principles ensure that reported emissions appropriately represent Urban Landscapes LLC's greenhouse gas performance.

7.3 Calculation Approach

Greenhouse gas emissions were calculated using the activity-based approach:

$$\text{GHG Emissions (tCO}_2\text{e)} = \text{Activity Data} \times \text{Emission Factor} \div 1,000$$

Where:

Activity Data = Fuel, electricity, transportation, material consumption, waste generation, etc.

Emission Factor = Published emission factor from approved references.

Result = Metric tonnes of carbon dioxide equivalent (tCO₂e).

7.4 Global Warming Potentials (GWP)

The inventory includes the greenhouse gases covered under the Kyoto Protocol and converted to carbon dioxide equivalent (CO₂e) using applicable Global Warming Potentials (GWPs).

Greenhouse Gas	Chemical Formula
Carbon Dioxide	CO ₂
Methane	CH ₄
Nitrous Oxide	N ₂ O
Hydrofluorocarbons	HFCs
Perfluorocarbons*	PFCS*
Sulphur Hexafluoride*	SF ₆ *
Nitrogen Trifluoride*	NF ₃ *

*No emissions from these gases were identified during the reporting period.

7.5 Data Collection Methodology

Activity data were collected from various operational departments, including:

- Fleet fuel records
- Fuel purchase invoices
- Electricity bills
- Maintenance records
- Procurement records
- Logistics records
- Waste disposal records
- HR employee database
- Site operational records
- Vendor information
- Transportation documentation

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

7.6 Tools Used

The greenhouse gas inventory was prepared using spreadsheet-based emission calculation models supported by:

- Microsoft Excel
- Approved emission factor databases
- Internal ESG data collection templates
- Corporate activity records

7.7 Scope 2 Accounting Approach

Urban Landscapes LLC reports Scope 2 greenhouse gas emissions using both the **Location-based** and **Market-based** methods in accordance with the GHG Protocol Scope 2 Guidance.

- **Location-based method:** reflects emissions from the average UAE electricity grid emission factor.
- **Market-based method:** reflects emissions associated with supplier-specific emission factors or contractual instruments such as Renewable Energy Certificates (RECs), International Renewable Energy Certificates (I-RECs), or Power Purchase Agreements (PPAs).

For the 2025 reporting period:

Item	Value
Purchased Renewable Electricity	0 kWh
Renewable Energy Certificates	None
On-site Solar Generation	0 kWh
Location-based Scope 2	34.45 tCO ₂ e
Market-based Scope 2	34.45 tCO ₂ e

8. EMISSION SOURCES IDENTIFICATION

8.1 Direct & Indirect Sources

Scope	Sources Included
Scope 1 – Direct Emissions	Diesel consumption in company vehicles, landscaping machinery, agricultural tractors, mobile generators, and refrigerant leakage from office and facility HVAC systems.
Scope 2 – Indirect Energy Emissions (Location-based)	Purchased electricity used in the corporate office, plant nursery, warehouses, maintenance workshop, irrigation facilities, lighting, and air-conditioning systems, calculated using the average UAE national grid electricity emission factor.
Scope 2 – Indirect Energy Emissions (Market-based)	Purchased electricity used in the corporate office, plant nursery, warehouses, maintenance workshop, irrigation facilities, lighting, and air-conditioning systems, calculated using supplier-specific emission factors or contractual electricity instruments where applicable.

	During the reporting period, Urban Landscapes LLC did not purchase renewable electricity, Renewable Energy Certificates (RECs/I-RECs), or other contractual instruments, and no on-site solar electricity was generated (0 kWh). Therefore, the Market-based Scope 2 emissions are identical to the Location-based Scope 2 emissions.
Scope 3 – Other Indirect Emissions	Purchased goods and services, landscaping materials, ornamental plants, irrigation equipment, supplier transportation, employee commuting, business travel, waste disposal, downstream transportation and distribution, and end-of-life treatment of packaging materials.

8.2 GHG Emission Baseline & Targets

Category	2024 Baseline (tCO ₂ e)	Target 2025	Target 2030
Scope 1 – Direct Emissions	2,561.78	3% Reduction	42% Reduction
Scope 2 (Location-based)	34.45	5% Reduction	42% Reduction
Scope 2 (Market-based)	34.45	5% Reduction	42% Reduction
Scope 3 – Upstream Emissions	2,113.11	3% Reduction	25% Reduction
Scope 3 – Downstream Emissions	259.89	3% Reduction	25% Reduction
Total Scope 3 Emissions	2,373.00	3% Reduction	25% Reduction
Total GHG Emissions (All Scopes)	4,969.23	3% Reduction	20% Reduction

8.3 Mapping to Facilities

The following facilities and operational activities are included within the organizational boundary of the GHG inventory:

Facility / Location	Major Emission Sources
Corporate Head Office	Purchased electricity, HVAC refrigerants, employee commuting
Operational Offices	Electricity, office equipment, employee commuting
Plant Nursery	Electricity, irrigation pumps, landscaping equipment
Landscaping Project Sites	Diesel-powered machinery, vehicles, portable generators
Irrigation Operations	Company vehicles, irrigation equipment, electricity (where applicable)
Maintenance Workshop	Diesel equipment, maintenance activities, electricity
Warehouse & Stores	Lighting, forklifts (if applicable), electricity
Company Fleet	Diesel consumption from vehicles and tractors
Temporary Site Offices	Electricity (where available), portable diesel generators

8.4 Emission Sources Identification (Section 8)

Source	Status
Purchased Electricity	Included
On-site Solar Generation	0 kWh
Renewable Electricity Purchase	None
Renewable Energy Certificates	None

9. GHG SCOPE CLASSIFICATION

9.1 Scope 1 – Direct Emissions

Scope 1 emissions arise from sources owned or controlled by Urban Landscapes LLC.

Sources Included

- Diesel combustion in company vehicles
- Diesel consumption in landscaping machinery
- Diesel consumption in tractors and heavy equipment
- Diesel generators
- Refrigerant leakage from office and warehouse HVAC systems
- No industrial process emissions were identified.

Total Scope 1 Emissions

2,561.78 tCO₂e

Scope 1 Gas-wise Contribution

GHG Gas	Source	Emissions (tCO ₂ e)
CO ₂	Diesel combustion	2,422.50
CH ₄	Diesel combustion	42.80
N ₂ O	Diesel combustion	31.48
HFCs	Refrigerant leakage	65.00
Total Scope 1		2,561.78

9.2 Scope 2 – Indirect Energy Emissions

Purchased electricity is consumed for offices, workshops, nurseries, warehouses, lighting, irrigation control systems, and administrative operations.

No purchased steam, heating, or cooling is utilized.

Total Scope 2 Emissions

34.45 tCO₂e

Scope 2 (Location-based) – Gas-wise Contribution

GHG Gas	Source	Emissions (tCO ₂ e)
CO ₂	Purchased electricity	30.65
CH ₄	Electricity generation	1.70
N ₂ O	Electricity generation	2.10
Total Scope 2 (Location-based)		34.45

Scope 2 (Market-based) – Gas-wise Contribution

GHG Gas	Source	Emissions (tCO ₂ e)
CO ₂	Purchased electricity	30.65
CH ₄	Electricity generation	1.70
N ₂ O	Electricity generation	2.10
Total Scope 2 (Market-based)		34.45

9.3 Scope 3 – Other Indirect Emissions

Scope 3 emissions include upstream and downstream activities occurring outside the direct operational control of Urban Landscapes LLC but associated with its business activities.

Sources Included

- Purchased landscaping materials
- Tree seedlings
- Ornamental plants
- Fertilizers
- Irrigation materials
- Agricultural equipment
- Supplier transportation
- Waste disposal
- Employee commuting
- Business travel
- Downstream transportation
- Packaging disposal

Total Scope 3 Emissions

2,373.00 tCO₂e

Scope 3 Gas-wise Contribution

GHG Gas	Source	Emissions (tCO ₂ e)
CO ₂	Materials, logistics, commuting	2,245.20
CH ₄	Waste management & transport	52.30
N ₂ O	Transportation activities	35.50
HFCs & Others	Supply chain activities	40.00
Total Scope 3		2,373.00

9.4 Overall Gas-wise Emission Summary

Scope	CO ₂ (tCO ₂ e)	CH ₄ (tCO ₂ e)	N ₂ O (tCO ₂ e)	HFCs (tCO ₂ e)	Total (tCO ₂ e)
Scope 1	2,422.50	42.80	31.48	65.00	2,561.78
Scope 2 (Location-based)	30.65	1.70	2.10	–	34.45
Scope 2 (Market-based)	30.65	1.70	2.10	–	34.45
Scope 3	2,245.20	52.30	35.50	40.00	2,373.00

10. GHG DATA COLLECTION & QUALITY

10.1 Data Sources and Collection Method

Urban Landscapes LLC established a structured greenhouse gas data collection process to ensure the accurate identification, measurement, and reporting of greenhouse gas emissions across all operational activities. Data were collected from operational departments using standardized data collection templates and verified against supporting documentation wherever available.

Primary activity data were obtained from internal records, while secondary data and engineering estimates were used only where direct measurements were unavailable. The collected information was consolidated by the ESG function and reviewed before being incorporated into the corporate GHG inventory.

Primary Data Sources

Activity	Data Source	Frequency
Diesel Consumption	Fuel invoices, fleet logs	Monthly
Company Vehicles	Vehicle fuel records	Monthly
Generators	Fuel purchase records	Monthly
Refrigerant Top-up	HVAC maintenance records	Annual
Electricity Consumption	Utility bills	Monthly
Employee Data	HR records	Annual
Procurement	Purchase records	Monthly
Waste Disposal	Waste contractor records	Monthly
Transportation	Logistics records	Monthly
Business Travel	Finance records	As applicable
Employee Commuting	HR survey and estimates	Annual

10.2 Data Collection Process

The greenhouse gas inventory was developed through a systematic process consisting of:

- Identification of emission sources.
- Collection of activity data from responsible departments.
- Verification of operational records.
- Selection of appropriate emission factors.
- Calculation of emissions.
- Internal technical review.

- Management approval.
- Compilation of the organizational GHG inventory.

10.3 Data Quality Assessment

Urban Landscapes LLC has adopted data quality principles consistent with ISO 14064-1 to improve the reliability and transparency of its GHG inventory.

Data Quality Parameter	Assessment
Accuracy	High
Completeness	Medium-High
Consistency	High
Transparency	High
Reliability	High
Timeliness	High

10.4 Data Management Procedure and Controls

The organization has implemented internal controls to maintain data integrity throughout the reporting process.

These controls include:

- Departmental data ownership.
- Monthly fuel reconciliation.
- Utility bill verification.
- Review of procurement records.
- Vehicle fuel consumption monitoring.
- Internal arithmetic checks.
- Cross-functional ESG review.
- Management validation before report issuance.
- Secure electronic storage of supporting documents.
- Annual review of calculation methodology.

11. EMISSION FACTORS

11.1 Emission Factor Sources

Emission factors were selected from internationally recognized references to ensure consistency with ISO 14064-1 and the GHG Protocol.

Activity	Reference Source
Diesel Combustion	IPCC 2006 Guidelines
Refrigerants	IPCC AR5 / AR6 GWP Values
Electricity	UAE National Grid Emission Factor
Transport	DEFRA Conversion Factors
Employee Commuting	DEFRA Conversion Factors

Waste Disposal	DEFRA Conversion Factors
Purchased Materials	GHG Protocol Scope 3 Guidance
Upstream Transport	DEFRA Conversion Factors
Downstream Transport	DEFRA Conversion Factors

11.2 Typical Emission Factors Applied

Source	Unit	Emission Factor
Diesel	litre	2.68 kg CO ₂ e/litre
Electricity (UAE Grid)	kWh	Applicable UAE Grid Factor
Refrigerant	kg	GWP-based factor
Heavy Vehicle Transport	tonne-km	DEFRA Factor
Employee Vehicle Travel	km	DEFRA Factor
Waste to Landfill	tonne	DEFRA Factor

11.3 Justification

The selected emission factors represent internationally accepted methodologies and are considered appropriate for the operational profile of Urban Landscapes LLC. Where UAE-specific emission factors were available, they were applied. In the absence of country-specific values, DEFRA and IPCC default factors were used.

12. CALCULATION RESULTS

12.1 Total GHG Emissions by Scope

The organizational greenhouse gas emissions for the reporting year are summarized below.

Scope	Emissions (tCO ₂ e)	Percentage
Scope 1	2,561.78	51.6%
Scope 2 – Location-based	34.45	0.7%
Scope 2 – Market-based	34.45	0.7%
Scope 3	2,373.00	47.7%
Total	4,969.23	100%

12.2 Emission Intensity Indicators

To evaluate carbon efficiency, Urban Landscapes LLC has calculated greenhouse gas emission intensity indicators based on organizational activity.

Employee-Based Intensity

Total Employees = **608**

Total GHG Emissions = **4,969.23 tCO₂e**

Emission Intensity

$$= 4,969.23 \div 608$$

= **8.17 tCO₂e per employee per year**

Fleet-Based Intensity

Indicator	Value
Total Scope 1 Emissions	2,561.78 tCO ₂ e
Total Organizational Emissions	4,969.23 tCO ₂ e
Fleet Contribution	51.6%

Operational Intensity

Urban Landscapes LLC performs numerous landscaping, irrigation, maintenance, and agricultural support projects annually. The organization will continue enhancing operational data collection to establish future intensity indicators such as:

- tCO₂e per landscaping project completed.
- tCO₂e per hectare of landscaped area maintained.
- tCO₂e per kilometre travelled by company fleet.
- tCO₂e per AED million revenue.
- tCO₂e per tonne of landscaping materials handled.
- tCO₂e per irrigation system installed.

12.3 Emission Breakdown by Scope

Scope	Emissions (tCO ₂ e)
Scope 1 – Direct Emissions	2,561.78
Scope 2 – Indirect Energy Emissions (Location-based)	34.45
Scope 2 – Indirect Energy Emissions (Market-based)	34.45
Scope 3 – Other Indirect Emissions	2,373.00

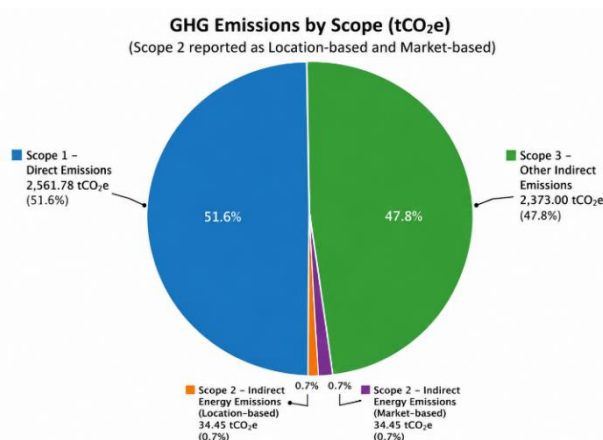


Figure 12.3: GHG Emissions by Scope (Location-based Inventory)

Note: Market-based Scope 2 emissions are also 34.45 tCO₂e because Urban Landscapes LLC did not purchase renewable electricity, Renewable Energy Certificates (RECs)/i-RECs, or generate on-site solar electricity (0 kWh). Therefore, the Market-based pie chart is identical to the Location-based inventory.

13. BASE YEAR & TREND ANALYSIS

13.1 Base Year Selection

Urban Landscapes LLC has selected 2025 as the organizational base year for greenhouse gas accounting. The base year serves as the reference for measuring future GHG performance and tracking emission reductions. It was established using the requirements of ISO 14064-1:2018 and the GHG Protocol Corporate Accounting and Reporting Standard.

Particular	Details
Base Year	2025
Reporting Year	2025
Reporting Standard	ISO 14064-1:2018
Inventory Approach	Operational Control
Purpose	Establish Corporate Carbon Baseline

13.2 Historical Comparison

As **2025** is the first reporting year, no historical comparison is available. Future GHG reports will compare annual emissions with the base year to measure performance improvements and emission reduction achievements.

13.3 Base Year Recalculation Policy

The base year inventory will be recalculated whenever significant organizational or operational changes occur, such as acquisitions, divestments, new facilities, boundary changes, major methodological improvements, or the availability of more accurate activity data.

13.4 Future Trend Monitoring

Urban Landscapes LLC will monitor the following key performance indicators annually to evaluate progress toward its greenhouse gas reduction objectives.

Indicator	Frequency
Total GHG Emissions	Annual
Scope 1 Emissions	Annual
Scope 2 (Location-based) Emissions	Annual
Scope 2 (Market-based) Emissions	Annual
Scope 3 Emissions	Annual
Fuel Consumption	Monthly
Electricity Consumption	Monthly
Renewable Electricity Purchased	Monthly (where applicable)
Solar Electricity Generation	Monthly (where applicable)
Carbon Emission Intensity	Annual

13.5 Emission Reduction Targets

Urban Landscapes LLC is committed to continually reducing its greenhouse gas emissions through improved energy efficiency, fleet optimization, sustainable procurement, renewable energy adoption, and responsible landscaping practices. Progress against reduction targets will be reviewed annually as part of the organization's ESG and climate change management program.

14. UNCERTAINTY ASSESSMENT

14.1 Sources of Uncertainty

Although every effort has been made to ensure data accuracy, certain uncertainties are inherent in greenhouse gas inventories due to estimation techniques, emission factor selection, and data availability.

The principal sources of uncertainty include:

- Estimated employee commuting distances.
- Supplier transportation information.
- Scope 3 purchased goods and services.
- Waste treatment assumptions.
- Refrigerant leakage estimation.
- Industry-average emission factors.
- Incomplete supplier-specific emission data.
- Temporary project site fuel estimates.
- Vehicle fuel allocation among projects.

14.2 Uncertainty Estimation Method

Urban Landscapes LLC adopted a qualitative uncertainty assessment considering:

- Quality of activity data.
- Source of emission factors.
- Frequency of data collection.
- Reliability of supporting documentation.
- Engineering judgement.
- Materiality of each emission source.
- Each emission source was assigned a qualitative confidence rating.

14.3 Confidence Level

Scope	Confidence Level
Scope 1	High
Scope 2 (Location-based)	High
Scope 2 (Market-based)	High
Scope 3	Medium
Overall Inventory (Location-based)	Medium-High
Overall Inventory (Market-based)	Medium-High

Scope 1 emissions and both Scope 2 (Location-based) and Scope 2 (Market-based) emissions are supported primarily by measured fuel and electricity consumption records. Scope 3 emissions rely partly on supplier information, secondary emission factors, and reasonable assumptions, resulting in comparatively higher uncertainty. During the reporting period, no renewable electricity, Renewable Energy Certificates (RECs/I-RECs), or on-site solar electricity generation were reported; therefore, the Location-based and Market-based Scope 2 emissions are identical.

15. DATA QUALITY ASSESSMENT

15.1 Activity Data Quality

Parameter	Rating	Remarks
Fuel Consumption	High	Based on purchase and fleet records
Electricity Consumption	High	Based on utility bills
Refrigerant Records	Medium	Maintenance-based estimates
Employee Information	High	HR records
Procurement Data	High	ERP/Purchase records
Waste Data	Medium	Contractor records and estimates
Transportation Data	Medium	Logistics records and assumptions
Business Travel	High	Finance records

15.2 Emission Factor Quality

Emission Source	Rating
Fuel Combustion	High
Electricity	High
Refrigerants	High
Transportation	High
Waste	Medium
Purchased Goods	Medium
Scope 3 Factors	Medium

15.3 Overall Data Quality Rating

Assessment Area	Rating
Completeness	High
Consistency	High
Accuracy	High
Transparency	High
Reliability	Medium-High
Overall Quality	High

16. GHG REDUCTION INITIATIVES

Urban Landscapes LLC is committed to reducing greenhouse gas emissions through continuous operational improvements, sustainable procurement, and resource-efficient landscaping practices.

16.1 Energy Efficiency Initiatives

- Replacement of conventional lighting with LED lighting.
- Installation of occupancy sensors in offices and warehouses.
- Preventive maintenance of HVAC systems.
- Energy-efficient office equipment procurement.
- Optimization of irrigation pump operation.
- Smart scheduling of outdoor operations to reduce idle equipment usage.

16.2 Fleet and Fuel Management

- Preventive maintenance of vehicles and machinery.
- Driver eco-driving training.
- Route optimization using GPS.
- Reduction of engine idling.
- Monitoring fuel consumption through fleet management systems.
- Gradual transition to hybrid and electric vehicles where operationally feasible.

16.3 Sustainable Landscaping Practices

- Promotion of native and drought-tolerant plant species.
- Installation of smart irrigation controllers.
- Drip irrigation systems to reduce water use.
- Soil moisture monitoring.
- Organic soil improvement practices.
- Reduction in chemical fertilizer use.
- Increased use of compost and organic mulch.

16.4 Waste Management

- Segregation of recyclable waste.
- Composting of green waste from landscaping activities.
- Recycling of plastic pots, irrigation pipes, and packaging.
- Reduction of paper consumption through digital documentation.
- Responsible disposal of hazardous waste through licensed contractors.

16.5 Sustainable Procurement

- Preference for environmentally responsible suppliers.
- Procurement of recycled and recyclable materials.
- Selection of low-carbon landscaping materials.

- Local sourcing to reduce transportation emissions.
- Supplier engagement on ESG and carbon reporting.

16.6 Employee Awareness

- Climate change awareness programs.
- Energy conservation campaigns.
- Sustainable driving awareness.
- Waste reduction initiatives.
- Paperless office practices.
- Employee participation in tree-planting and environmental programs.

16.7 Future Sustainability Goals

Target	Target Year
Reduce Scope 1 emissions by 42%	2030
Reduce Scope 2 (Location-based) emissions by 42%	2030
Reduce Scope 2 (Market-based) emissions by 42%	2030
Reduce Scope 3 emissions by 25%	2030
Source renewable electricity where feasible	2030
Install on-site solar photovoltaic (PV) systems where technically and economically feasible	2030
Improve fleet fuel efficiency by 15%	2030
Increase recycling rate above 90%	2030
Expand native plant landscaping projects	Ongoing
Achieve continual reduction in carbon intensity	Annual

17. CONCLUSIONS

- Urban Landscapes LLC completed its 2025 GHG inventory in accordance with ISO 14064-1:2018 and the GHG Protocol.
- The total greenhouse gas emissions for the reporting year were 4,969.23 tCO₂e.
- Scope 1 emissions were the highest, mainly due to fuel used in company vehicles and landscaping equipment.
- Scope 3 emissions were mainly generated from purchased goods, transportation, employee commuting, and waste management.
- The GHG inventory provides a baseline for monitoring and reducing future greenhouse gas emissions.
- The company will continue improving energy efficiency, fleet management, waste reduction, and sustainable procurement practices.
- Urban Landscapes LLC is committed to annual GHG reporting and continual improvement to support its ESG and sustainability objectives.

18. APPENDICES

18.1 Appendix A – Activity Data Summary

Parameter	Unit	Scope
Number of Employees	Persons	Organizational
Diesel Consumption	Litres	Scope 1
Refrigerant Top-up	kg	Scope 1
Purchased Electricity	kWh	Scope 2 (Location-based)
Purchased Electricity	kWh	Scope 2 (Market-based)
Renewable Electricity Purchased	kWh	Scope 2 (Market-based)
Solar Electricity Generation	kWh	Scope 2
Purchased Landscaping Materials	Tonnes	Scope 3
Agricultural Equipment Procurement	Tonnes	Scope 3
Employee Commuting	km	Scope 3
Business Travel	km	Scope 3
Supplier Transportation	km	Scope 3
Customer Deliveries	km	Scope 3
Waste Generated	Tonnes	Scope 3

18.2 Appendix B – GHG Calculation Summary

Source Category	Activity Data	Emission Factor	Calculation Method
Diesel Combustion	Litres	IPCC Factor	Activity × EF
Refrigerants	kg	GWP Factor	Activity × GWP
Purchased Electricity (Location-based)	kWh	UAE National Grid Emission Factor	Activity × EF
Purchased Electricity (Market-based)	kWh	Supplier-specific Factor or Residual Mix Factor (where applicable)	Activity × EF
Renewable Electricity Purchased	kWh	Renewable Electricity Factor (0 tCO ₂ e where certified)	Activity × EF
Solar Electricity Generation	kWh	Zero Operational Emission Factor	Activity × EF
Purchased Electricity (Location-based)	kWh	UAE National Grid Emission Factor	Activity × EF
Transportation	km / tonne-km	DEFRA Factor	Activity × EF
Waste Disposal	Tonnes	DEFRA Factor	Activity × EF
Purchased Goods	Tonnes	GHG Protocol Factors	Activity × EF

18.3 Appendix C – Emission Factor References

Category	Reference
Fuel Combustion	IPCC 2006 Guidelines
Refrigerants	IPCC AR5 / AR6 GWP Values

Electricity (Location-based)	UAE National Grid Electricity Emission Factor
Electricity (Market-based)	GHG Protocol Scope 2 Guidance / Supplier-specific Emission Factors (where applicable)
Renewable Electricity	GHG Protocol Scope 2 Guidance
Solar Electricity Generation	Zero Operational Emission Factor
Electricity (Location-based)	UAE National Grid Electricity Emission Factor
Transportation	DEFRA GHG Conversion Factors
Waste	DEFRA GHG Conversion Factors
Scope 3	GHG Protocol Corporate Value Chain Standard

18.4 Appendix D – Definitions and Abbreviations

Term	Definition
GHG	Greenhouse Gas
CO ₂	Carbon Dioxide
CH ₄	Methane
N ₂ O	Nitrous Oxide
HFC	Hydrofluorocarbons
CO ₂ e	Carbon Dioxide Equivalent
GWP	Global Warming Potential
Scope 1	Direct GHG Emissions
Scope 2 (Location-based)	Indirect emissions from purchased electricity calculated using the average UAE grid emission factor
Scope 2 (Market-based)	Indirect emissions from purchased electricity calculated using supplier-specific emission factors or contractual instruments such as RECs/I-RECs, where applicable
Scope 3	Other Indirect Emissions
ESG	Environmental, Social and Governance
IPCC	Intergovernmental Panel on Climate Change
DEFRA	UK Department for Environment, Food & Rural Affairs
ISO 14064-1	International Standard for Organizational GHG Quantification and Reporting

18.5 Core GHG Accounting Standards

a) Core GHG Accounting Standards

ISO 14064-1:2018 — Greenhouse Gases Standard

Official title: *Greenhouse gases — Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.*

Official ISO publication (summary and purchase information):

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

GHG Protocol – Corporate Accounting and Reporting Standard

Primary international framework for organizational greenhouse gas accounting and reporting developed by the World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD).

Official guidance:

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

GHG Protocol – Corporate Value Chain (Scope 3) Standard

Guidance for accounting and reporting indirect greenhouse gas emissions occurring across the value chain (upstream and downstream activities).

Official guidance:

<https://ghgprotocol.org/standards/scope-3-standard>

b) IPCC Standards & Global Warming Potential (GWP) Guidance

IPCC 2006 Guidelines for National Greenhouse Gas Inventories

Primary international methodology for greenhouse gas inventory preparation.

Official repository:

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

2019 Refinement to the 2006 IPCC Guidelines

Updated methodologies and emission estimation guidance published by the Intergovernmental Panel on Climate Change (IPCC).

Official publication:

<https://www.ipcc-nggip.iges.or.jp/public/2019rf/>

IPCC AR6 Global Warming Potential (100-year GWP) Values

Global Warming Potential values used for conversion of greenhouse gases into carbon dioxide equivalent (CO₂e), based on the IPCC Sixth Assessment Report (AR6).

Reference:

<https://ghgprotocol.org/global-warming-potential-values>

IPCC Emission Factor Database (EFDB)

International database containing default emission factors and supporting documentation used where organization-specific emission factors are unavailable.

<https://www.ipcc-nggip.iges.or.jp/EFDB/main.php>

c) Emission Factors & Energy Data

UK Government (DEFRA) Greenhouse Gas Conversion Factors

Official greenhouse gas conversion factors for company reporting, widely adopted internationally where country-specific factors are unavailable.

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

International Energy Agency (IEA) Emission Factors

Annual electricity emission factors and energy statistics used for estimating indirect emissions from purchased electricity.

<https://www.iea.org/data-and-statistics/data-product/emissions-factors>

Applicable UAE Electricity Grid Emission Factors

National or regional electricity grid emission factors applicable to the United Arab Emirates, obtained from the latest available government publications, utility data, or internationally recognized databases.

d) Supplementary Standards & References

ISO 14067 — Carbon Footprint of Products

Provides principles, requirements, and guidelines for quantification and reporting of product carbon footprints, referenced where applicable for product life-cycle considerations.

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

World Bank ESG and Climate Data

Reference database for national greenhouse gas indicators, emissions intensity, and climate-related datasets.

<https://data.worldbank.org/>

United Nations Framework Convention on Climate Change (UNFCCC)

International framework supporting greenhouse gas accounting, climate reporting, and global climate action.

<https://unfccc.int/>

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 : 

Name : Mediha Zafar

Designation : HR Manager

Date : 04th February, 2026



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