



TRANSGUARD GROUP L.L.C.



# GHG EMISSIONS

Form No	Issue No	Rev No	Date
Transguard/ESG/F-610	01	00	29 <sup>th</sup> April, 2025





# Company Overview

Transguard, headquartered in the UAE, is a leading provider of Labour Supply, Security Services, Cash Management Services, Security Solutions, Facilities Management, and Catering Services. The company has embedded Environmental, Social, and Governance (ESG) principles across its operations to deliver services responsibly while strengthening stakeholder trust and long-term value creation. Recognizing its role in supporting the UAE's sustainability agenda, Transguard is committed to reducing its environmental footprint and improving operational efficiency through innovative and sustainable practices. The company has completed a comprehensive assessment of its greenhouse gas emissions and is aligning its climate strategy with the Science Based Targets initiative (SBTi) to set credible and measurable reduction targets. With a dedicated management team, investment in low-carbon technologies, and structured action plans, Transguard is actively working to transition toward cleaner energy, lower emissions, and greater resource efficiency, ensuring business growth is aligned with national climate objectives.







# GHG Emissions Summary

## Organizational Boundaries

Name of the Location	Address
<b>TRANSGUARD GROUP L.L.C DUBAI</b>	Head Office:Emirates Group Security Building,Dubai Airport Free Zone,P.O. Box 22630, Dubai,United Arab Emirates
<b>TASTE OF HOME CATERING SERVICES (BR OF TRANSGUARD GROUP L.L.C)</b>	2 Street 4, Dubai Investments Park 2 , P.O. Box 31304, Dubai , United Arab Emirates
<b>TRANSGUARD GROUP L.L.C AJMAN BRANCH</b>	Horizon Towers , Building D, 8 <sup>th</sup> Floor,Unit 804 , P.O. Box No.22630,Ajman , United Arab Emirates
<b>TRANSGUARD GROUP L.L.C AL AIN BRANCH</b>	Al Markhaniya, Sector Muaifaa, Street No. 09, Property Number PRP24044, P.O.Box No.87193, Al Ain , United Arab Emirates
<b>TRANSGUARD GROUP L.L.C BRANCH OF ABU DHABI 1</b>	Sector 32/1, Flat No. 26, Mussafah Industrial, P.O. Box 38897, Abu Dhabi , United Arab Emirates
<b>TRANSGUARD GROUP L.L.C FUJAIRAH BRANCH</b>	Al nebras Building , Room No 102, Khorfakkan Road, Qidfa, P.O. Box 22630, Fujairah, United Arab Emirates
<b>TRANSGUARD GROUP L.L.C RAK BRANCH</b>	Mohd ormran Building, Room 104B, Al Nahda Road, Opp. Ministry of Labour Office , P.O. Box No. 22630, Ras Al Khaimah, United Arab Emirates
<b>TRANSGUARD GROUP L.L.C SHARJAH BRANCH</b>	AL Marsa Plaza Building, Office No. 04, Al Qasimia Street, P.O.Box 586, Sharjah, United Arab Emirates



# Reporting Boundary & Scope Definition

Scope	Included Activities	Justification
<b>Scope 1 – Direct Emissions</b>	Combustion of diesel in company vehicles and generators; refrigerant leakage from HVAC systems	Emissions occur from sources owned or directly controlled by Transguard under operational control.
<b>Scope 2 – Indirect Energy Emissions</b>	Purchased grid electricity for offices, accommodations, kitchens, and service facilities	Electricity consumed within Transguard’s boundary for service operations; part of indirect controlled emissions.
<b>Scope 3 – Upstream</b>	Extraction, production, and transportation of purchased goods/services; upstream transportation; waste disposal; business travel	Occur outside direct operations but as a consequence of procurement and operational needs.
<b>Scope 3 – Downstream</b>	Transportation and distribution of products to customers; end-of-life treatment of materials where applicable	Emissions occur after Transguard’s operational phase; influenced by service delivery and product handling.



# Scope 3 Category Inclusion Table

Scope 3 Category	Included? (Yes/No)	Justification
Purchased Goods & Services	Yes	Significant upstream emissions from uniforms, equipment, food, and supplies.
Capital Goods	Yes	Emissions from purchase of fleet vehicles and equipment.
Fuel- & Energy-Related Activities	No	Covers extraction and transmission of purchased fuels and electricity.
Upstream Transportation & Distribution	Yes	Movement of materials from suppliers to Transguard facilities.
Waste Generated in Operations	Yes	Waste disposal and treatment from service sites.
Business Travel	Yes	Staff travel for training, audits, and client meetings.
Employee Commuting	Yes	Minimal compared to other categories; data not yet available.
Downstream Transportation & Distribution	Yes	Movement of goods, cash, or food items to clients.
Other categories (Processing, Use, End-of-Life, Franchises, Investments)	No	Not material to Transguard's services.



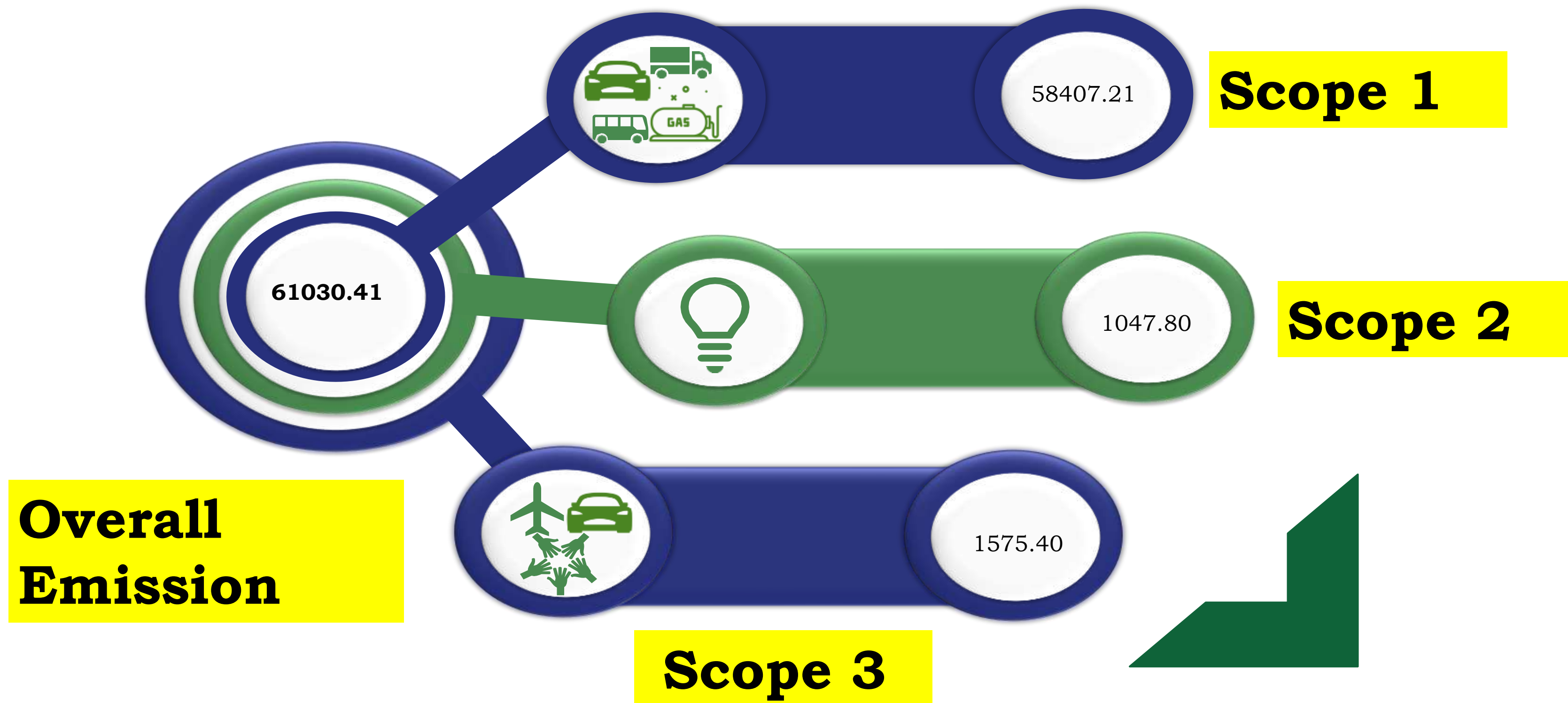
# Breakdown of GHG Scope 1 Emission

Gas	Source	Emission Factor	GWP100	Emissions (tCO <sub>2</sub> e)
CO <sub>2</sub>	Diesel combustion in company fleet	2.68 kg CO <sub>2</sub> /L	1	58,407.21
CH <sub>4</sub>	Diesel combustion	0.00014 kg CH <sub>4</sub> /L	27.9	— <i>(included in total)</i>
N <sub>2</sub> O	Diesel combustion	0.000022 kg N <sub>2</sub> O/L	273	— <i>(included in total)</i>
HFC-134a	Refrigerant leakage from AC units	-	1430	,079.63 <i>(derived from Scope 1 split)</i>
<b>Total</b>	-	-	-	58,486.84



## Summary of GHG Emissions (All values in MT CO<sub>2</sub>e)

Emission	Baseline 2023	Current Year 2024
Scope 1	1721	58,407.21
Scope 2	12204	1,047.80
Scope 3 Upstream	Nil	1,528.31
Scope 3 Downstream	Nil	47.09
<b>Total Scope 3</b>	Nil	1,575.40
<b>Total GHG Emission</b>	-	61,030.41







# SBTi-Based GHG Emission Reduction Targets

Scope Category	Baseline Emission (tCO <sub>2</sub> e)	FY2028 Milestone	FY2030 Near-Term Target	FY2050 Long-Term (Net-Zero ≥90% cut)
Scope 1	1,721	1,377 (20% cut)	1,205 (30% cut)	≤172 (~90% cut)
Scope 2	12,204	9,763 (20% cut)	8,543 (30% cut)	≤1,220 (~90% cut)
Scope 1+2 Combined	13,925	1,140 (20% cut)	9,748 (30% cut)	≤1,392 (~90% cut)
Scope 3 Upstream	Nil	-	Target once baseline available	Net-zero aligned (≥90% cut)
Scope 3 Downstream	Nil	-	Target once baseline available	Net-zero aligned (≥90% cut)
Total Scope 3	Nil	-	Target once baseline available	Net-zero aligned (≥90% cut)
Renewable Electricity (Scope 2 alt.)	Nil	25% share of Scope 2	50% share of Scope 2	100% renewable (zero Scope 2)
Supplier Engagement (Scope 3)	Nil	50% key suppliers engaged	80% suppliers engaged	100% suppliers net-zero aligned



# Statement of Uncertainty

- Fuel consumption based on purchase invoices; uncertainty <3%.
- Refrigerant leakage based on maintenance logs; uncertainty ~15%.
- Scope 2 electricity from utility bills; uncertainty <2%.
- Scope 3 relies on spend-based or industry-average emission factors; uncertainty can be >30%.





## Emission Factors & References

GHG	Factor Used	Source
CO <sub>2</sub> (Carbon Dioxide)	2.68 kg CO <sub>2</sub> per litre of diesel combusted	PCC Guidelines / DEFRA Emission Factors
CH <sub>4</sub> (Methane)	0.00014 kg CH <sub>4</sub> per litre of diesel combusted	IPCC Guidelines (AR5, GWP100 = 27.9)
N <sub>2</sub> O (Nitrous Oxide)	0.000022 kg N <sub>2</sub> O per litre of diesel combusted	IPCC Guidelines (AR5, GWP100 = 273)
HFC-134a (Refrigerant)	kg HFC-134a = 1,430 kg CO <sub>2</sub> e (GWP100 = 1430)	IPCC Guidelines (AR5, GWP100 = 273)
GHG	Factor Used	Source





# Quantification

## SCOPE 2 QUANTIFICATION

Scope 2 emissions from purchased electricity are determined by multiplying the company's annual metered electricity consumption by the UAE grid emission factor [tCO<sub>2</sub>e/MWh]. This method ensures that indirect emissions from electricity use are accurately quantified in line with the Greenhouse Gas Protocol. By tracking and reporting these emissions, Transguard can identify opportunities to improve energy efficiency, transition to renewable electricity, and implement measures that reduce the overall carbon footprint of its operations.

## SCOPE 3 QUANTIFICATION

Category-wise Scope 3 emissions are calculated using spend-based, activity-based, and distance-weighted approaches, applying DEFRA 2023 emission factors and other relevant data sources. The assessment encompasses upstream activities, including purchased goods and services, capital goods, upstream transport, waste, and business travel, as well as downstream activities, specifically transportation associated with client deliveries. This methodology ensures a comprehensive understanding of indirect emissions, enabling Transguard to identify key reduction opportunities across the value chain.



## Conclusion

Transguard is committed to minimizing greenhouse gas emissions across all scopes. By integrating energy efficiency measures, adopting low-carbon technologies, increasing renewable energy usage, and engaging supply-chain partners, the company aims to achieve sustained reductions aligned with SBTi standards. Continuous monitoring, transparent reporting, and adherence to international protocols will guide progress and support UAE's national climate goals.



# References for GHG Emissions Summary & Reduction Plan

**1.Greenhouse Gas Protocol (GHG Protocol)** – World Resources Institute (WRI) & World Business Council for Sustainable Development (WBCSD).

1. *Corporate Standard and Corporate Value Chain (Scope 3) Standard.*
2. URL: <https://ghgprotocol.org>

**2.Science-Based Targets initiative (SBTi)** – Guidance for setting science-based GHG emission reduction targets.

1. URL: <https://sciencebasedtargets.org>

**3.ISO 14064-1:2018** – Greenhouse gases — Specification with guidance at the organization level for quantification and reporting of GHG emissions and removals.

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

**4.CDP (Carbon Disclosure Project)** – Global disclosure system for companies to report environmental impact, including GHG emissions.

1. URL: <https://www.cdp.net>

**5.IPCC Guidelines for National Greenhouse Gas Inventories (2006, 2019 Refinement)** – Methodologies for calculating GHG emissions.

1. URL: <https://www.ipcc-nggip.iges.or.jp>

**6.UAE National Climate Change Plan 2050** – Provides UAE-specific guidance for corporate sustainability and GHG reduction.

1. URL: <https://www.moei.gov.ae>

**7.International Finance Corporation (IFC) ESG Guidelines** – Guidance on integrating ESG and GHG management in operations.

1. URL: <https://www.ifc.org/ESG>

**8.Task Force on Climate-related Financial Disclosures (TCFD)** – Recommendations on climate-related reporting and risk management.

1. URL: <https://www.fsb-tcfd.org>

