



PEREGRINE GUARDING PVT LTD

Plot No.13, Tenon Lane, Sector 18, Gurugram, Haryana
122015



**TENON FACILITY MANAGEMENT INDIA
PVT LTD**

A: Plot No. 13, Tenon Lane, Phase IV, Udyog Vihar,
Gurugram, Haryana, India – 122015.



SOTERIA COMMAND CENTER PVT.LTD.

Plot No. 13, Sector-18, Electronic City,
Gurgaon-122015, Haryana, India.

GHG EMISSION REPORT

Form No: TENON GROUP/ESG/F-110


Issue No : 01

Rev No : 00

Date of Report : 07th April, 2025

Prepared By: General Manager

Approved By: Managing Director

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1. Introduction

TENON GROUP is a leading facility management service provider in India, committed to integrating Environmental, Social, and Governance (ESG) principles across all operations. Recognizing the importance of climate action, the company has conducted a comprehensive assessment of its greenhouse gas (GHG) emissions, covering Scope 1, Scope 2, and Scope 3 categories. This report presents TENON GROUP's carbon footprint for the period April 2024–March 2025, including reporting boundaries, emission factors, and global warming potential (GWP) references. The assessment establishes a robust baseline for monitoring, managing, and reducing emissions, aligning with international standards and best practices for sustainable operations.

2. GHG Emission Overview

Organizational Boundaries

TENON GROUP

Location Covered

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Calculation Period: April 2024 – March 2025

All values in: MT CO₂e

GHG Emission Reporting Frequency: Annually

3. Reporting boundary & justification

Boundary Element	Choice Made (Operational / Organizational)	Specific Items Included	Justification	Suggested Evidence
Organizational Boundary	Operational Control	All sites and activities managed directly by TENON GROUP	Captures emissions from operations under TENON's direct control	Organizational chart, site listings, operational contracts
Scope 1 (Direct)	Operational	Fuel combustion in company vehicles, onsite generators, refrigerant losses	Directly controlled and material for operational emissions	Fuel invoices, vehicle logs, HVAC/refrigerant records

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Scope 2 (Indirect)	Operational	Purchased electricity at administrative and client sites	Material indirect emissions associated with energy consumption	Electricity bills, meter readings, supplier certificates
Scope 3 – Upstream	Operational	Purchased goods/services, upstream transport	Material supply-chain emissions affecting service delivery	Purchase orders, supplier invoices, freight records
Scope 3 – Downstream	Operational	Transportation and operational activities at client sites	Downstream emissions from service delivery are material for Scope 3 reporting	Client service agreements, delivery logs, service reports
Exclusions	Operational	Employee commuting, minor non-material activities	Data unavailable or immaterial relative to total inventory	Justification note, management approval
Standards Used	Operational	GHG Protocol Corporate Standard, Scope 3 Standard; ISO 14064; IPCC Guidelines	Ensures compliance with recognized GHG reporting standards	Reference documents, internal reporting policies

4. GHG Emissions Summary (MT CO₂e)

Calculation Period: April 2024 – March 2025


All values in: MT CO₂e

Category	CURRENT YEAR (April 2024 – March 2025)
Scope 1 (Direct)	1,052
Scope 2 (Purchased electricity)	1,416.81
Scope 3 – Upstream	942
Scope 3 – Downstream	2,212
Total Scope 3	3,462
Total (Scope 1+2+3)	5,930.81

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5. SBTi-Based Targets

S.No.	SBTi-Based Target Scope	Current Emissions (tCO ₂ e, Apr 2024–Mar 2025)	Proposed Target for TENON GROUP (SSCI), Target Year	Reduction Goal by Year	Key Strategy (Summary)
1	Scope 1 – Direct emissions	1,052	Reduce 40% by 2030	40% reduction	Transition to electric/hybrid vehicles, improve fuel efficiency, maintain low-GWP refrigerants
2	Scope 2 – Purchased electricity	1,416.81	Reduce 50% by 2030	50% reduction	Install on-site renewable energy, procure green power, improve energy efficiency at facilities
3	Scope 3 – Upstream	942	Engage suppliers covering 70% of upstream emissions by 2028	30% reduction	Low-carbon procurement, supplier engagement, ESG evaluation of vendors
4	Scope 3 – Downstream	2,212	Reduce emissions intensity per service unit by 25% by 2030	25% reduction	Optimize logistics, improve client site energy efficiency, minimize operational waste
5	Total GHG Emissions	5,930.81	Net-Zero by 2050; interim 35% reduction by 2030	100% reduction (Net-Zero)	Phased decarbonisation roadmap, renewable energy adoption, supplier collaboration, ESG integration


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6. Notes & Caveats

The reported GHG emissions for TENON GROUP cover the period April 2024–March 2025 and represent the best available data. Scope 1 and 2 emissions are based on fuel invoices, vehicle logs, and electricity meter readings, while Scope 3 emissions rely on spend-based or proxy data where direct measurements were unavailable. Minor sources may be excluded due to immateriality or lack of reliable data. Emission factors are sourced from DEFRA 2024, IPCC Guidelines, and GHG Protocol, with GWP values from IPCC AR5. Uncertainty arises from data gaps, estimation methods, and regional variability, with overall uncertainty estimated at $\pm 5\text{--}15\%$.

7. Scope 3 Categories: Reporting Boundary & Justification

S.No.	Scope 3 Category	Included? (Yes/No)	Reporting Boundary	Justification
1	Purchased goods & services	Yes	Cleaning materials, consumables, outsourced services	Material upstream emissions from supply chain affecting service delivery
2	Fuel- and energy-related activities (not in Scope 1/2)	Yes	Extraction, production, and transport of fuels & electricity	Captures upstream emissions associated with energy use
3	Upstream transportation & distribution	Yes	Freight and transport of purchased goods to TENON GROUP sites	Significant for supply chain footprint; outside direct control
4	Waste generated in operations	Yes	Disposal of waste from managed facilities	Waste treatment (landfill/incineration) produces GHGs; material for operations
5	Business travel	Yes	Employee flights, rail, taxi travel for business purposes	Material contributor to Scope 3 emissions
6	Downstream transportation & distribution	Yes	Transport of services or materials to client sites	Influences Scope 3 downstream emissions due to service delivery


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8. Scope 3 Quantification Table

S.No.	Scope 3 Category	Activity Data (Examples)	Methodology Used (Emission Factor Source / Tool)	Remarks
1	Purchased goods & services	Quantity/weight of cleaning chemicals, consumables, outsourced services	Spend-based or quantity-based EF; DEFRA 2024, GHG Protocol	Covers upstream supply-chain emissions from procured goods and services
2	Fuel- and energy-related activities	Diesel, LPG upstream EF, electricity T&D losses	IPCC 2006 Guidelines, GHG Protocol Scope 3	Emissions from fuel and electricity production & transport
3	Upstream transportation & distribution	Freight km, weight of goods transported	DEFRA 2024 EF tables, GHG Protocol	Outsourced transport of materials to TENON sites
4	Waste generated in operations	Waste kg per facility, type of disposal (landfill, incineration, recycling)	DEFRA 2024 / IPCC EF	Covers GHGs from treatment/disposal of operational waste
5	Business travel	Employee flights, rail, taxi km	DEFRA 2024 / ICAO carbon calculator	Emissions from employee business travel only
6	Downstream transportation & distribution	Transport of services/materials to clients, km x weight	DEFRA 2024 / GHG Protocol	Captures emissions from delivery of TENON services to client sites

9. GHG Emission Factor & GWP Reference Table

- Global Warming Potentials (GWP100, AR5):** CO₂ = 1, CH₄ = 28, N₂O = 265. Source: IPCC Fifth Assessment Report (AR5), 2014; aligned with GHG Protocol guidelines.
- Stationary Combustion EF:** Diesel, petrol, LPG, and natural gas emission factors from GHG Protocol Cross-Sector EF Workbook 2024 and DEFRA 2024, covering CO₂, CH₄, and N₂O per unit of fuel.
- Mobile Fuel / Vehicle EF:** Emissions from company vehicles based on DEFRA 2024 and EPA EF hub; includes CO₂, CH₄, N₂O per litre or per km, depending on fuel type.

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4. **Electricity Grid EF:** India-specific grid emission factor for purchased electricity sourced from Central Electricity Authority (CEA) CO₂ Baseline Database 2024–25, covering location-based and market-based approaches.
5. **Scope 3 EF Sources:** Upstream and downstream activities including purchased goods, freight, waste, and business travel; sourced from DEFRA 2024, IPCC 2006 Guidelines, ICAO Carbon Calculator, and GHG Protocol Scope 3 guidance.

10. Statement of Uncertainty


The reported GHG emissions for TENON GROUP are subject to uncertainties arising from data quality, emission factors, and methodological assumptions. Scope 1 and 2 emissions, derived from fuel invoices, vehicle logs, and electricity meter readings, carry relatively low uncertainty (<5%). Scope 3 emissions, calculated using spend-based or proxy data, have higher uncertainty (10–30%) due to data gaps, estimation methods, and variability across suppliers. Emission factors for fuels, electricity, refrigerants, and transportation may vary regionally or temporally. Combined inventory uncertainty is estimated at ±5–15%, and all figures should be interpreted within these bounds.

11. Conclusion

The GHG inventory for TENON GROUP reflects a comprehensive assessment of emissions across Scopes 1, 2, and 3 for FY 2024–25, aligning with the GHG Protocol and IPCC guidelines. The analysis highlights key emission sources from fuel use, electricity consumption, and value chain activities. Through continuous monitoring, energy efficiency initiatives, and supplier engagement, TENON GROUP aims to progressively reduce its carbon footprint and align with national sustainability goals. The data serves as a foundation for setting Science-Based Targets, integrating ESG strategies, and driving transparent environmental performance reporting across operations and client facilities.

12. References

1. Greenhouse Gas Protocol (2015) – Corporate Accounting and Reporting Standard (Revised Edition), World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD).
2. Greenhouse Gas Protocol (2013) – Corporate Value Chain (Scope 3) Accounting and Reporting Standard.
3. Intergovernmental Panel on Climate Change (IPCC) – Fifth Assessment Report (AR5), Global Warming Potential (GWP) Values.
4. Intergovernmental Panel on Climate Change (IPCC) – 2006 Guidelines for National Greenhouse Gas Inventories.
5. DEFRA (2024) – UK Government GHG Conversion Factors for Company Reporting.

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6. Bureau of Energy Efficiency (BEE), Government of India – Energy Efficiency and Conservation Guidelines.
7. ISO 14064-1:2018 – Specification with Guidance at the Organization Level for Quantification and Reporting of GHG Emissions and Removals.
8. Central Electricity Authority (CEA), India – CO₂ Baseline Database for the Indian Power Sector (Version 18).
9. Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India – National Action Plan on Climate Change (NAPCC).

