



2024

Greenhouse Gas Emissions Inventory Report Summary

Implemented by:

Climate Innovation Consulting & Services **KLINOVA** JSC.

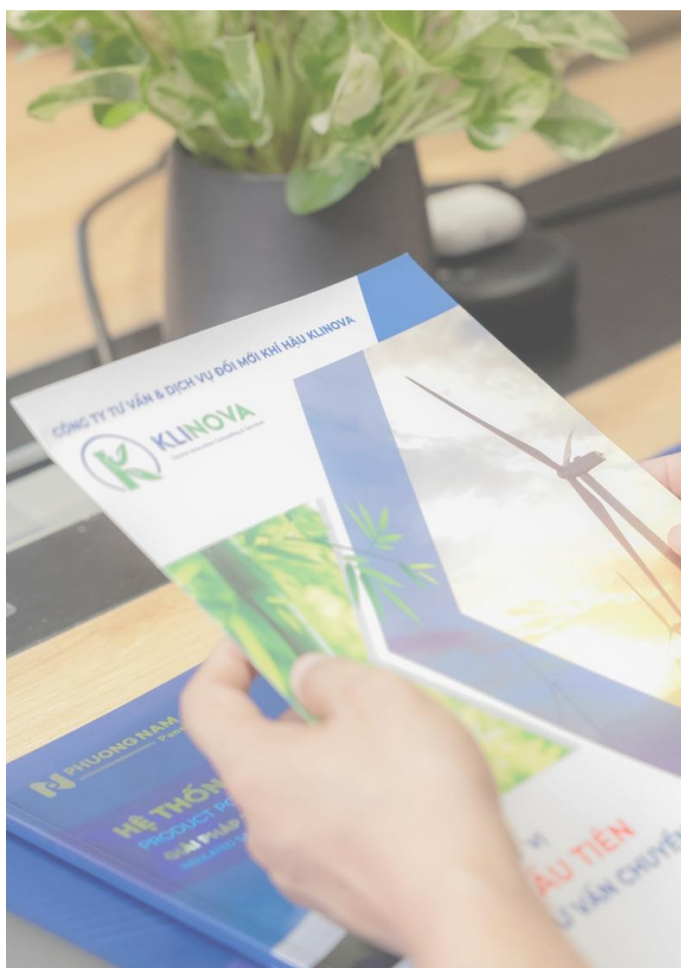
Hanoi, April 2025



INTRODUCTION

KLINOVA Climate Innovation Consulting & Services Joint Stock Company (**KLINOVA**), based in Hanoi, Vietnam, is a professional consulting company providing innovative and sustainable services and solutions within Renewable Energy, Energy Efficiency, Climate, Green Growth, Circular Economy, Carbon Credits Trading and, Environment sectors with highly qualified consultants and technical experts. Our company continues to take specific actions towards a greener world, reflecting its dedication to environmental sustainability and the reduction of greenhouse gas emissions.

EXECUTIVE SUMMARY



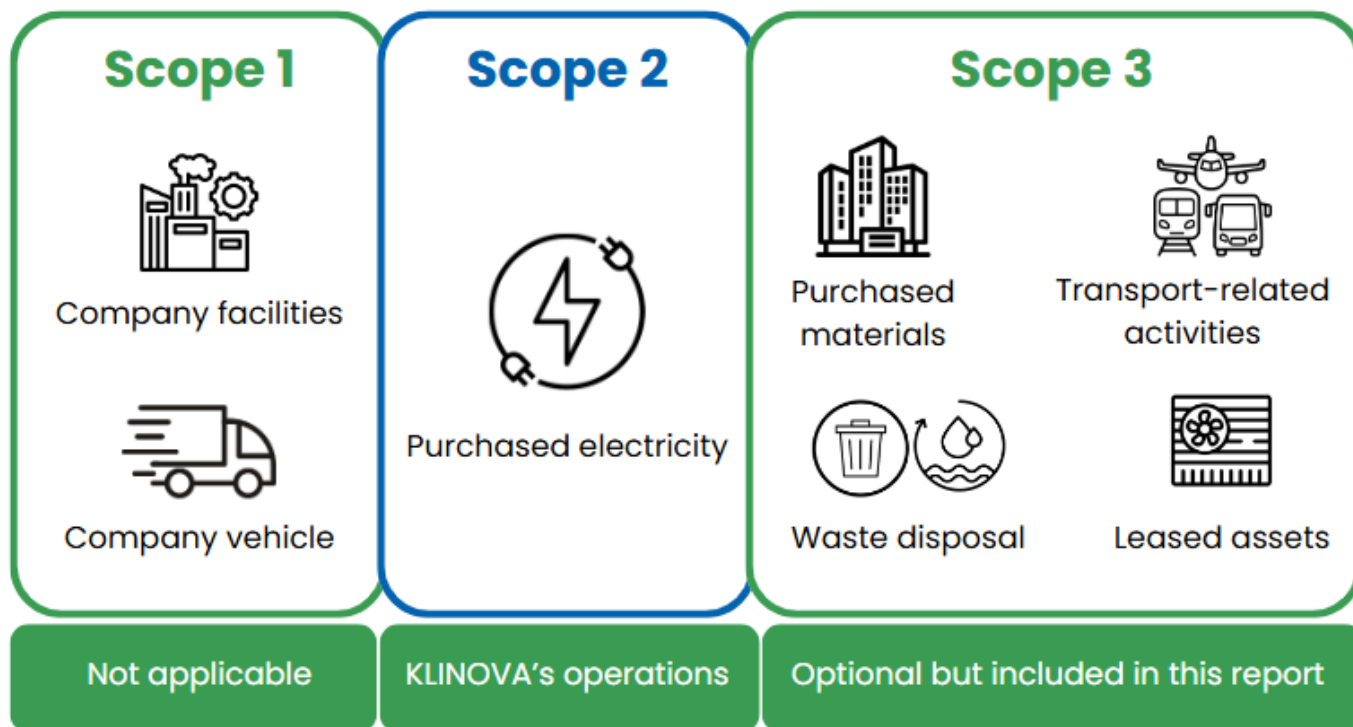
KLINOVA's Greenhouse Gas (GHG) Inventories have been conducted annually, starting from 2022. It will be important for us to reach our goals of green transformation and office greening.

This GHG Inventory describes **KLINOVA's** impact on the environment as measured in greenhouse gases (GHG) emitted in units of equivalent tons of carbon dioxide for the reporting year 2024, comprising the period from January 1, 2024, to December 31, 2024.

KLINOVA's organizational structure comprises one headquarters, one main office in Hanoi, and two representative offices in Central and Southern Vietnam. The main office houses most staff and key activities, making them central to operations. Thus, the emission inventory boundary includes only the main office for accuracy.

METHODOLOGY

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (2016)



$$\text{GHG Emissions} = \text{Activity Data (AD)} * \text{Emission Factor (EF)}$$

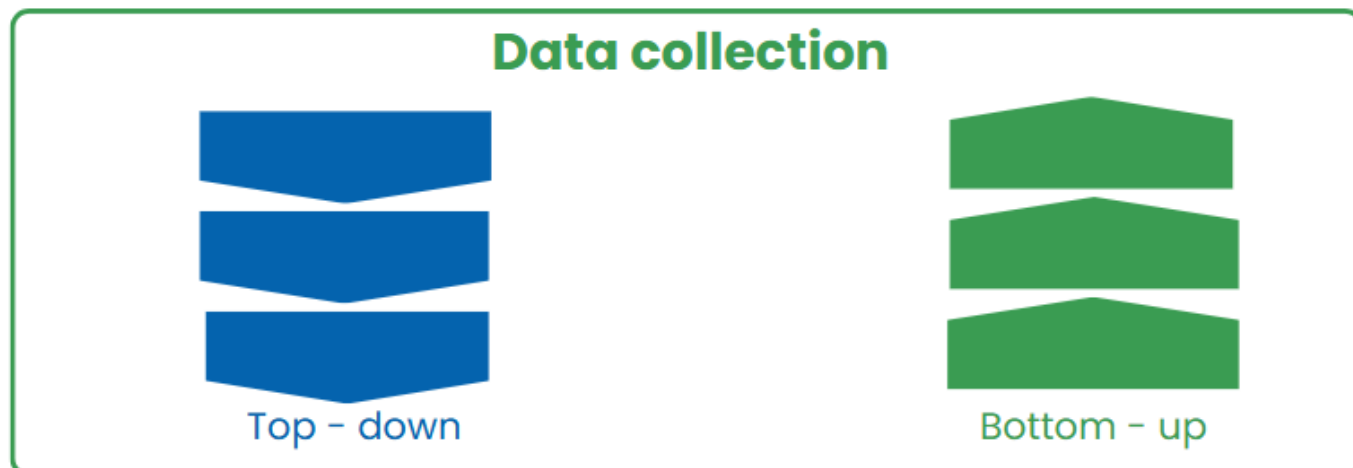


Figure 1: GHG Inventory methodology

RESULTS

In 2024, KLINOVA's total emissions reached **40.9 tCO₂eq**, marking a significant 436% increase from the previous year. This surge primarily stemmed from the company's expansions in operations and workforce.

Table: KLINOVA's GHG inventory results

Emissions	Scope 1	Scope 2	Scope 3
Total by scope (tCO ₂ eq)	4.06	4.72	32.12
Total (tCO ₂ eq)	40.9		

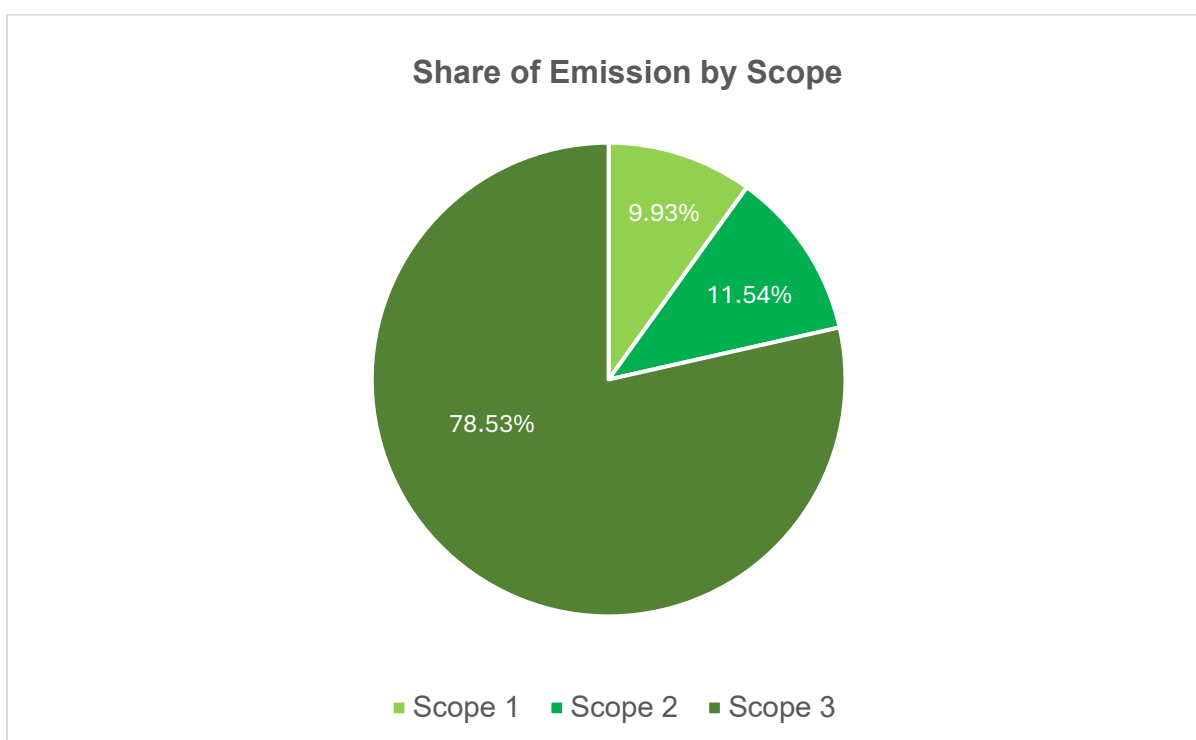


Figure 2: Share of emissions by scope (%)

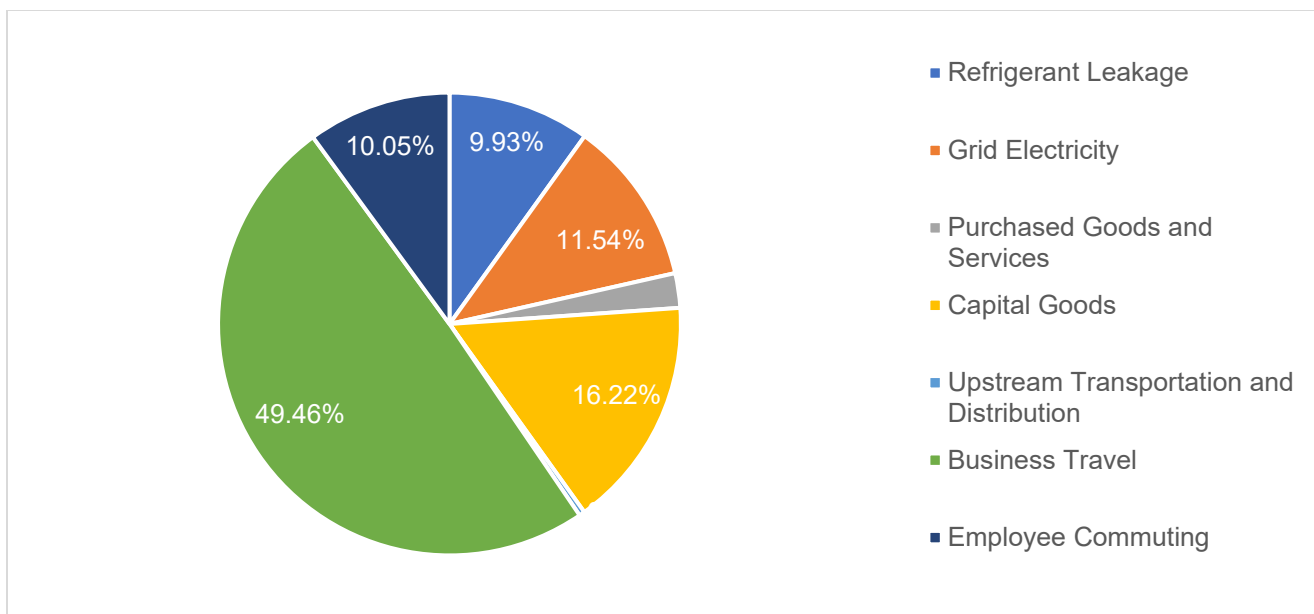


Figure 3: Share of emissions by sources (%)

A key category analysis of KLINOVA's GHG emissions identifies the major sources contributing most significantly to overall emissions. This analysis is crucial for prioritizing mitigation efforts and resource allocation. The key categories of KLINOVA's emissions in 2024 include:

- Employee business travel
- Grid electricity consumption
- Production of purchased capital goods
- Employee commuting
- Refrigerant leakage

Collectively, these categories account for over 97% of total emissions. This indicates that KLINOVA's carbon footprint is predominantly shaped by activities outside its direct operational control, which is typical for a consulting company or the service sector in general.

Uncertainty Assessment

To ensure the reliability of KLINOVA's emissions data, we conducted an uncertainty assessment for the year 2024. The uncertainty was assessed based on the IPCC Guidelines 2019 for the Tier 1 method in this report. In 2024, KLINOVA's total GHG emissions were recorded at **40.90 tCO₂eq**, with an uncertainty of **4.9%**. The most significant source of emissions was grid electricity consumption, which accounted for **4.72 tCO₂eq** with an uncertainty of **0.2%**.

CONCLUSION

In conclusion, to achieve our goals of green transformation and office greening, **KLINOVA** must focus on reducing transport-related emissions and enhancing energy efficiency within our operations. By addressing these key categories, we can make meaningful strides in reducing our environmental impact and contributing to global efforts to combat climate change.

KLINOVA remains dedicated to implementing innovative and sustainable solutions across all sectors, driving progress towards a greener and more sustainable future. Our commitment to environmental stewardship will continue to guide our actions as we work towards achieving our sustainability goals and fostering a positive impact on the environment.

This report was implemented by:




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