

Greenhouse Gas Inventory Report (GHG Protocol)

- January 2025 to October 2025

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Executive Summary

This GHG carbon emissions report presents a comprehensive analysis of greenhouse gas emissions for covering the period from January 2025 to October 2025. Total emissions reached 39872.45 kg CO2e across 58 emission records. The report follows GHG standards and provides actionable insights for emission reduction strategies. Key focus areas include energy efficiency improvements and sustainable operational practices to achieve carbon reduction goals.

Key Metrics

Metric	Value
Total Emissions	39872.45 kg CO2e
Average Monthly	3987.24 kg CO2e/month
Reporting Period	01 January 2025 - 11 October 2025
Record Count	58

Emissions by Scope (GHG Protocol)

Scope	Emissions (kg CO2e)	Percentage
Scope 1	22415.03	56.2%
Scope 2	17457.42	43.8%

Scope 1: Direct greenhouse gas emissions from sources owned or controlled by the organization (fuels, refrigerants, combustion)

Scope 2: Indirect greenhouse gas emissions from purchased electricity

Key Findings

- Total emissions: 39872.45 kg CO2e
- Reporting period: January 2025 to October 2025
- Number of emission records: 58
- Primary emission source: grid_electricity
- Number of emission categories: 9
- Scope 1: 56.2% of total emissions
- Scope 2: 43.8% of total emissions

Recommendations

1. Prioritize reduction strategies for grid_electricity emissions
2. Implement comprehensive energy management system
3. Conduct regular energy audits to identify efficiency opportunities
4. Consider renewable energy procurement options
5. Establish emission reduction targets and monitoring procedures
6. Develop employee awareness programs for carbon reduction

Trend Analysis

Emissions showed an increasing trend over the reporting period, rising from 0.0 to 22945.9 kg CO₂e. Compared to 2024 (5860.0 kg CO₂e), emissions increased by 580.4% in 2025. This indicates a need for enhanced emission reduction measures and closer monitoring of emission sources.

Emissions Breakdown

The emissions breakdown analysis reveals that total emissions of 39872.45 kg CO₂e originated from multiple sources. The primary emission sources are grid electricity (43.8%), diesel household (35.3%), gasoline 2s household (8.5%). Emissions are categorized according to the GHG Protocol as Scope 1 (direct emissions) 22415.03 kg CO₂e and Scope 2 (indirect energy emissions) 17457.42 kg CO₂e. Understanding this breakdown is essential for targeting effective emission reduction strategies.

Methodology

This report complies with the GHG Protocol Corporate Accounting and Reporting Standard. Emissions are classified according to Scope 1, 2, and 3 categories as defined by the GHG Protocol. Calculation methodologies follow GHG Protocol guidance for corporate inventories. Data quality and uncertainty are managed according to GHG Protocol requirements.

Data Quality Statement

Data quality in this report is assured through systematic data collection processes and verification procedures. All emission data has been recorded and validated according to established standards. Data completeness is high for the reporting period, covering all material emission sources. Continuous improvements in data management systems will enhance accuracy and reliability in future reports.

Conclusion

This carbon emissions report demonstrates 's commitment to transparent measurement and management of carbon impacts. Total emissions of 39872.45 kg CO₂e during the reporting period provide a foundation for setting future reduction targets and strategies. The organization is committed to continuous environmental performance improvement and contributing to the fight against climate change. Regular monitoring and reporting will ensure progress toward sustainability goals.