

Steps to Measuring and Managing GHG emissions





Define Scope and Boundaries

- i. Identify organizational boundaries (operational and geographic scope).
- ii. Define emission scopes: Scope 1 (direct emissions), Scope 2 (indirect emissions from energy use), and Scope 3 (other indirect emissions).

Set Baseline Year

- i. Choose a baseline year for comparison.
- ii. Ensure the baseline year data is reliable.

Identify Emission Sources

- i. List all possible sources of GHG emissions within the defined scope.
 - Categorize sources under Scope 1, Scope 2, and Scope 3 emissions.





Collect Data

- i. Gather activity data from all identified sources (e.g., fuel consumption, electricity usage, waste generation).
- ii. Ensure data accuracy and consistency by using reliable data collection methods.

Select GHG Emission Factors

- i. Use standardized emission factors to convert activity data to GHG emissions.
- ii. Refer to credible sources such as IPCC or local government guidelines.

Calculate Emissions

- i. Apply the chosen emission factors to your activity data.
 - Sum emissions across all sources to get total emissions for each scope.





Verify data quality

- i. Review data for accuracy, completeness, and consistency.
- ii. Conduct internal or external audits to ensure data reliability.

Report Findings

- i. Document the methodology, data sources, emission factors, and assumptions used.
- ii. Present GHG emissions by scope and source category.
- iii. Highlight year-on-year comparisons and trends.

Set Reduction Targets

- i. Based on the measured emissions, set realistic and achievable GHG reduction targets.
 - Align targets with international agreements (e.g., Paris Agreement) and industry benchmarks.





Implement reduction strategies

- Develop and implement strategies to reduce emissions (e.g., energy efficiency projects, renewable energy adoption).
- ii. Monitor progress and adjust strategies as necessary.

Review and Update

- i. Regularly review and update GHG emission measurements and strategies.
- ii. Adapt to changes in operations, technology, and regulations.

Communicate Results

- Share results with stakeholders through sustainability reports, company websites, and
 other communication channels.
 - Ensure transparency and accountability in reporting.



Contact us



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THANK YOU