VSolvit Greenhouse Gas Emissions Report

Scope One

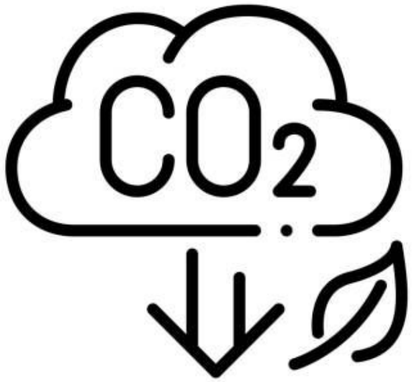
Q4 2024

Executive Summary

- **Overview:**
  - Assessment of Scope 1 greenhouse gas (GHG) emissions for VSolvit, LLC.
  - Focused on emissions from refrigeration and air conditioning equipment.
  - Other Scope 1 sources (e.g., stationary combustion, fire suppression, purchased gases, mobile sources) are not utilized by VSolvit.
- **Goals:** Reduce emissions by implementing energy-efficient practices, monitoring refrigerant usage efficiently, and adopting greener technologies to further reduce environmental impact.

Introduction: Understanding Greenhouse Gas (GHG) Emissions

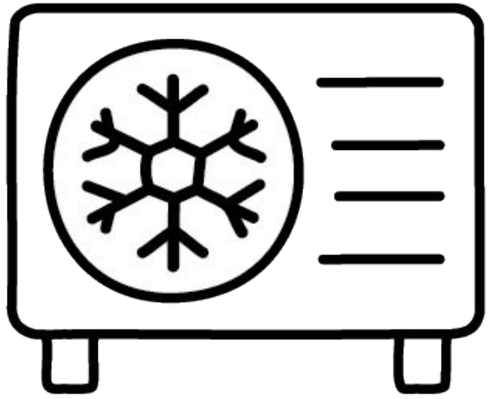
- Greenhouse gases, including CO_2, CH_4, and N_2O, contribute to the greenhouse effect by trapping heat in the Earth's atmosphere.
- Importance of monitoring and managing Scope 1 emissions, which cover direct emissions from company-owned equipment (like refrigeration systems).
- Aligning with regulatory and sustainability standards by focusing on emissions reduction in refrigeration systems, a key source of Scope 1 emissions for VSolvit.



Introduction to Scope 1 Emissions

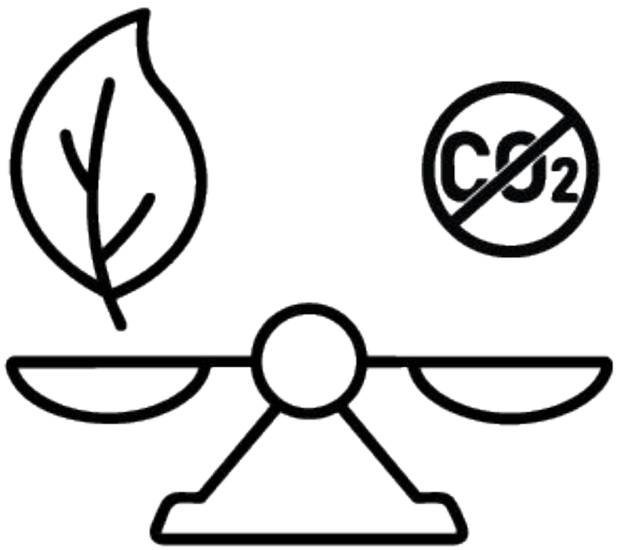
Scope 1 Emissions Categories:

- **Refrigeration/AC Equipment Use:** (Primary focus) Onsite Emissions.
- **Stationary Combustion:** (N/A) Emissions from on-site fuel combustion.
- **Fire Suppression:** (N/A) Potential GHGs from fire suppression systems.
- **Purchased Gases:** (N/A) Emissions from gases used in operations.
- **Mobile Sources:** (N/A) Emissions from company vehicles.



Significance: Emphasizes that Refrigeration/AC emissions are a substantial portion of Scope 1, and thus are prioritized for reduction.

GHG Inventory Methodology



- Data collection from refrigerant usage records using the EPA's Climate Leaders Simplified GHG Emissions Calculator.
- Calculation of CO_2 emissions based on refrigerant type, usage frequency, and leakage data.
- This methodology ensures accurate tracking by using verified refrigerant data and emissions factors.

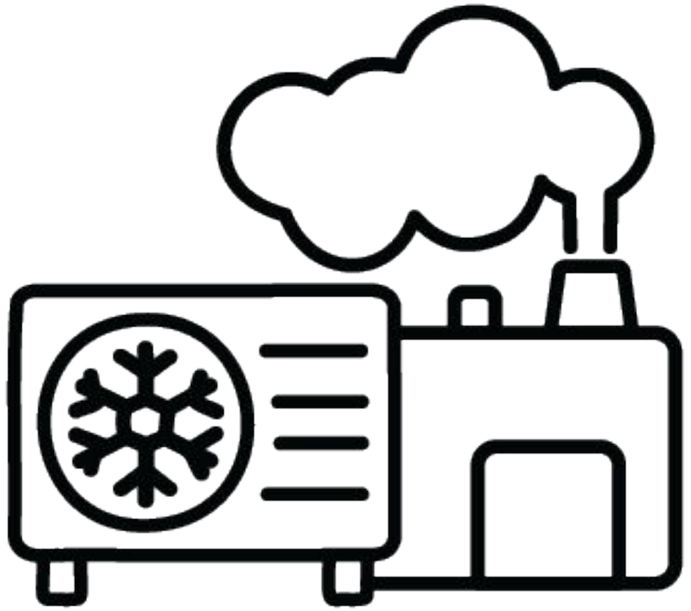
Emissions Data Overview

Breakdown:

- Total CO_2 emissions from refrigeration systems amounted to 68 metric tons.
- Data derived from actual refrigerant usage records, ensuring reliable measurements.

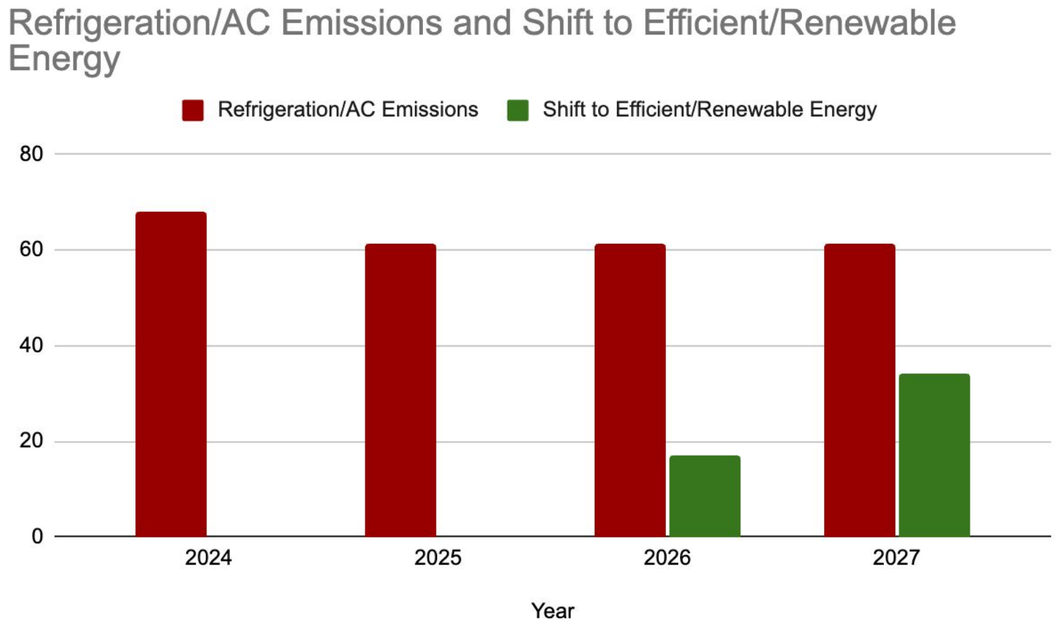
Summary:

- Refrigeration systems represent a significant portion of Scope 1 emissions, highlighting the need for targeted reduction efforts.



Scope 1 Emissions Reduction Goals

- **By 2025:** Achieve a 10% Year-Over-Year (YOY) reduction in Scope 1 emissions, focusing exclusively on Refrigeration/AC.
- **By 2026:** Continue the 10% YOY reduction in Refrigeration/AC emissions and shift 25% of total energy use to efficient practices across facilities.
- **By 2027:** Further reduce Refrigeration/AC emissions by 10% while transitioning 50% of total energy use to renewable sources, significantly lowering overall emissions.



Emissions Reduction Goals

VSolvit aims to reduce total GHG emissions by 10% year over year for the next five years through:

- Upgrade Refrigeration/AC systems to energy-efficient models with eco-friendly refrigerants.
- Prevent refrigerant leaks through regular maintenance and monitoring.

Target Goals

- Emissions reduction through optimized refrigerant management, reduction of leakage, and potential equipment upgrades.

Long-Term Vision

- VSolvit's commitment to sustainability includes continuous improvement in refrigeration system efficiency to minimize GHG emissions.

Emissions Reduction Action Plan

The Emissions Reduction Action Plan for Scope 1 refrigeration emissions includes the following key actions:

1. **Equipment Upgrades:** Replace older refrigeration units with high-efficiency models that use eco-friendly refrigerants to lower emissions.
2. **Regular Maintenance:** Implement rigorous maintenance schedules to prevent refrigerant leaks, ensuring optimal system performance.
3. **Employee Training:** Educate facility staff on sustainable refrigeration management practices to minimize energy use and reduce emissions.

Prepared by VSolvit LLC

If you have any questions or concerns, please contact us at: info@vsolvit.com