

Reporting Period:

January 1, 2023 thru December 31, 2023

Organizational Boundary

Site(s): Applied Research Solutions Inc. (ARS), Corporate Headquarters, 51 Plum Street, Suite 240, Beavercreek, OH, 45440,

Description of Activities: 10,946 Sq Ft Leased Office, Corporate office location for the administration of staff functions, including marketing communications, business development, information technologies, facilities security, human resource management, recruiting, purchasing, accounting, contracts administration, and program management.

Operational Boundary

Scope 1 – Direct Emissions

- **Stationary Combustion** – Natural gas provided by CenterPoint Energy for heat is distributed through and allocated by the Greene Town Center Management Office (Landlord, LL); Stationary combustion equipment is owned by the LL and is dedicated to ARS office facilities. The equipment is controlled/operated by ARS personnel via thermostat device. Natural gas consumption is reported in CCF units, which are converted to SCF units to calculate CO₂ emissions.
- **Mobile Source Emissions** – ARS does not own or operate fleet vehicles; therefore, mobile source emissions are **excluded** from its GHG Inventory.
- **Refrigeration and AC** – Dedicated refrigeration and AC units are owned by the LL and controlled and operated by ARS. Currently the units cool with R22 refrigerant. R22 emissions are reported internationally and are therefore **excluded** from its GHG Inventory.
- **Fire Suppression Systems** – ARS maintains (7) dry chemical fire extinguishers, which are inspected and serviced on an annual basis. The chemical formulation of the suppressing agent and the propellant used are characteristically inert and are therefore **excluded** from its GHG Inventory.
- **Purchased Gases** – ARS does not procure or utilize any unique gasses for its productive efforts; therefore, purchase gasses are **excluded** from its GHG Inventory.

Scope 2 – Indirect Emissions

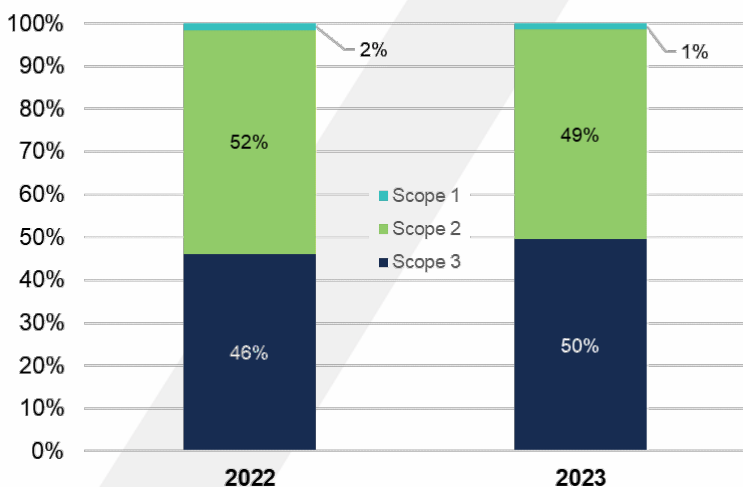
- **Purchases of Electricity** – Electricity is supplied by AES-Ohio and delivered to ARS via the LL’s infrastructure. Consumption is recorded in KWH units and usage estimated by SqFt of occupancy.
- **Purchases of Steam or Heat** – ARS does not utilize steam or heat from other sources; therefore, such purchases are **excluded** from its GHG Inventory.

Scope 3 – Indirect Emissions

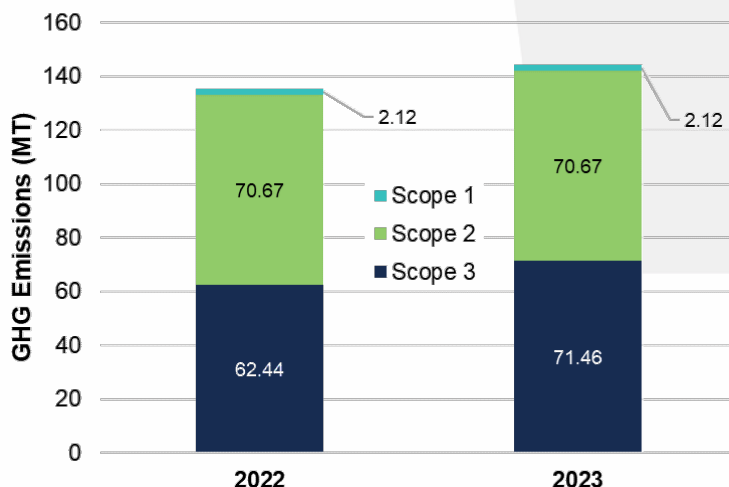
- **Business Travel** – ARS considers emissions generated by employees when they travel for business, such as attending meetings, conferences, or client visits, as part of its GHG Inventory.
- **Commuting** – ARS considers the emissions generated by employees during their commute to and from work as part of its GHG Inventory.

Combined Scope 1, 2 & 3 GHG Emissions – Base Year January 2022 thru December 2023

Corporate GHG Emissions Breakdown by Year



Corporate GHG Emissions Breakdown by Scope



The ARS GHG Emissions Report is prepared on an annual basis IAW WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard (GHG Protocol) tailored for Low Emitters as described in the US EPA’s Simplified Guide to Greenhouse Gas Management for Organizations and the ARS GHG Inventory Management Plan. This report is a voluntary Public Disclosure, and is maintained on File with ARS, Inc.