

Greenhouse Gas (GHG) Inventory Management Plan (IMP)

Organization Information

ANALYGENCE, Inc.

8115 Maple Lawn Blvd., Suite 110, Fulton, MD 20759

Inventory Point of Contact: Tom Peitler, Chief Operating Officer (COO)

T 240.249.2743; tpeitler@analygence.com

SAM UEI: MBQDZE4WPVX5

Website: www.analygence.com

Boundary Conditions

Our base year for measuring greenhouse gas (GHG) emissions is 2022. This year represents the most appropriate baseline due to the relocation of the corporate headquarters and the implementation of post-COVID remote and hybrid work protocols, both of which materially affected electricity consumption, employee commuting, and business travel patterns. ANALYGENCE uses the operational control approach to determine which facilities and operations are included within its organizational boundary for the purposes of the GHG emissions inventory.

ANALYGENCE leases all facilities and does not own or operate corporate vehicle fleets or stationary combustion sources. As such, there are no Scope 1 emissions associated with company operations. For Scope 2 emissions, ANALYGENCE leased two facilities within its operational boundary during the 2022 base year. The corporate headquarters is a 9,054 square foot office in Fulton, Maryland (Bldg-01), and a regional office of approximately 2,000 square feet in Lakehurst, New Jersey (Bldg-02). In 2022, ANALYGENCE relocated its corporate headquarters to Fulton, Maryland, occupying an energy-efficient building designed to optimize electricity use, workspace utilization, and information technology infrastructure while enhancing physical and cybersecurity controls. The office incorporates high-efficiency HVAC systems, energy-efficient motion-sensor lighting, double-pane insulated glass, white Thermoplastic Polyolefin (TPO) roofing membranes, and low-flow water fixtures. Low-volatile organic compound (VOC) paints and adhesives were used during construction, and stormwater runoff is managed through a system designed to minimize environmental impact. The open workspace configuration supports flexible and remote work models. The building received LEED Gold certification, reflecting ANALYGENCE's commitment to sustainability and responsible facility design.

Since the year 2022, ANALYGENCE has expanded its operational footprint to support mission requirements by opening additional leased regional offices. A regional office in Hampton, Virginia (Bldg-03) was opened in 2023, followed by an office and secure workspace in San Antonio, Texas (Bldg-04) in 2025. The San Antonio facility is a newly constructed suite completed in accordance with applicable Texas energy efficiency codes. These facilities are included in the GHG inventory as Scope 2 electricity emissions and do not trigger a base year recalculation, as they do not represent a structural change to the organization's operational boundary.

Based on EPA data and location-based estimation methodologies, electricity consumption for leased facilities was estimated using EPA office-space intensity assumptions where tenant-level metered data was not available. For the 2022 base year, Bldg-01 was estimated to have used 139,431 kWh of electricity annually, and Bldg-02 was estimated to have used 27,600 kWh annually. Natural gas consumption is not directly metered or controlled by ANALYGENCE and is therefore not included within Scope 1 or Scope 2 emissions.

ANALYGENCE does not currently quantify Scope 3 indirect emissions associated with employee commuting or business travel due to limited data availability and the continued use of remote and hybrid work arrangements. The organization maintains data on employee work schedules and remote work eligibility, and since 2022 has maintained or increased remote work where permissible based on customer requirements. As a result, Scope 3 emissions related to commuting and travel are expected to remain limited. Government customer mission requirements ultimately dictate the extent of employee commuting and business travel.

Emissions Quantification

ANALYGENCE quantifies Scope 2 emissions using the U.S. Environmental Protection Agency (EPA) Simplified GHG Emissions Calculator (May 2023) and location-based electricity emission factors derived from the EPA eGRID2022 Summary Tables. Electricity consumption for each leased facility is estimated using EPA office-space electricity intensity assumptions where tenant-level metered data is not available. Emissions of carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) are calculated by applying the applicable eGRID subregion total output emission rates (expressed in pounds per megawatt-hour) to the estimated annual electricity consumption for each facility. Electricity consumption in kilowatt-hours (kWh) is converted to megawatt-hours (MWh) prior to calculation.

This approach is consistent with EPA guidance for organizational greenhouse gas inventories and provides a conservative, transparent, and repeatable method for estimating Scope 2 emissions associated with leased office facilities.

The resulting estimate of emissions from Scope 2 Offices is in Table 1:

ID	Description	Area (sq ft)	eGRID where Purchased	Purchased (kWh)	CO2 Emissions (lb)	CH4 Emissions (lb)	N2O Emissions (lb)
Bldg-01	Fulton, MD	9,054	RFCE (RFC East)	139,431	93,809.20	6.8	1
Bldg-02	Lakehurst, NJ	2,000	RFCE (RFC East)	27,600	18,569.30	1.4	0.2
Bldg-03	Hampton, VA	2,363	SRVC (SERC VA/NC)	35,445	22,082.20	1.7	0.2
Bldg-04	San Antonio, TX	3,114	ERCT (ERCOT)	38,925	30,015.10	1.9	0.03
Total Emissions for All Sources				241,401	161,903.50	11.1	1.5

The total estimated Scope 2 greenhouse gas emissions associated with purchased electricity across all leased facilities is approximately 73.4 metric tons of CO₂-equivalent (CO₂e). This total reflects emissions of CO₂, CH₄, and N₂O converted to CO₂e using EPA global warming potential factors and rounded for reporting consistency. No Scope 1 emissions were identified during the reporting period.

Data Management

The data for emissions was estimated using the “Help – Data Management” tab in the EPA Simplified GHG Emissions Calculator (May 2023). Electricity consumption estimates were developed using EPA office-space electricity intensity assumptions where tenant-level utility data was not available. Bldg-01 (Fulton, MD) and Bldg-02 (Lakehurst, NJ) were categorized in the South and Northeast regions, respectively, for estimation purposes, consistent with EPA guidance. Bldg-03 (Hampton, VA) was categorized within the Southeast region, and Bldg-04 (San Antonio, TX) was categorized within the South Central region. All facilities fall within the Office category of Principal Building Activity.

Emissions of carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) were calculated using location-based electricity emission factors sourced from the EPA eGRID2022 Summary Tables. These emission factors are reviewed annually to ensure continued alignment with EPA-recommended datasets and methodological consistency.

Base Year Adjustments

There are no base year adjustments for 2022. Since the 2022 base year, ANALYGENCE has added leased regional office facilities in Hampton, Virginia and San Antonio, Texas. These additions have been incorporated into the greenhouse gas inventory as Scope 2 electricity emissions and do not trigger a base year recalculation, as they do not represent a structural change to the organization’s operational boundary.

Management Tools

The COO is responsible for monitoring new Scope 1 or Scope 2 elements and updating the GHG estimates annually. All data pertaining to facilities are maintained by the COO’s office. The files are posted to the ANALYGENCE web site as well as on an internal SharePoint site where the COO, CEO, and administrative personnel have access.

Auditing and Verification

The COO prepares the estimate using corporate records and GHG Calculator, which is downloaded annually. The Director of the Program Management Office (PMO) reviews the records and calculations for:

- **Relevance:** Annually review all facilities, vehicles, and other emission elements using an EPA checklist. Organizational and operational boundaries are reviewed across all categories.
 - **Completeness:** Ensure that all sources are accounted for and reported within the inventory boundary.
 - **Consistency:** Ensure meaningful comparisons of emissions over time and document all changes to data, inventory boundary, methods, or other factors.
 - **Transparency:** Maintain a clear audit trail and disclose all relevant assumptions and identify references.
 - **Accuracy:** Ensure the quantifications are accurate enough to permit executive decision making on additional steps that can be taken to reduce emissions.
-

Collectively, ANALYGENCE's current activities demonstrate the importance of sustainability. However, we know there is room for improvement. While many of the ongoing efforts encourage sustainability, we continue to move ANALYGENCE in a direction that furthers new sustainable efforts.

Moving forward, we will translate our ongoing efforts into specific actionable items that can be monitored and measured so that we can more readily demonstrate the value of sustainability to our Team Members, clients, and communities. We will build on the success of existing forums and tools within ANALYGENCE to ensure

continuity and establish new tools to facilitate open communication and transparency.
