

# MicroHealth Greenhouse Gas Emissions Report

Calendar Year 2024

December 30, 2024

Version 1.0



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## 1.0 PURPOSE

The purpose of this report is to analyze MicroHealth's greenhouse gas (GHG) emissions in accordance with the requirements of the GHG Protocol: A corporate accounting and reporting standard.

# 2.0 SCOPE INFORMATION

#### 2.1. Emissions Reporting Year

Calendar Year 2024

#### 2.2. GHG Gases Reported

 $\Box$  CO2 only

☑ 7 GHGP GHGs (CO2, CH4, N2O, SF6, HFCs, PFCs, NF3)

#### 2.3. Organization Description

MicroHealth LLC (MicroHealth) specializes in information technology. We offer program management, research, business intelligence, systems engineering, software development, human factors, enterprise architecture, mobile technology, and electronic health records.

## 2.4. Operational Boundaries

MicroHealth reports direct emissions (Scope 1) and energy indirect emissions (Scope 2) of carbon dioxide, (CO2), methane (CH4), and nitrous oxide (N2O) associated with its occupancy of leased office space in Vienna, Virginia.

## 2.5. Exclusions

MicroHealth does not report Scope 3 emissions as this is out of scope.

#### 2.6. Emission Methodologies

MicroHealth reported our 2024 greenhouse gas (GHG) emissions in accordance with the requirements of the GHG Protocol: A corporate accounting and reporting standard, revised edition.

Emissions for 2024 were calculated based on activity data provided by building management for MicroHealth's leased office space. Total building consumption of natural gas and electricity were pro-rated in accordance with MicroHealth's proportionate share of total building office space. Fugitive emissions of the HFC refrigerant R134a from the building chiller were estimated and allocated proportionately to MicroHealth.

Emission factors (EFs) for the consumption of natural gas were obtained from in the 2023 GHG Emission Factors Hub, published by the US EPA. The EF for purchased electricity was sourced from the US EPA eGRID subregion SRVC (SERC Virginia/Carolina), which report emission rates. Global warming potentials were sourced from the Intergovernmental Panel on Climate Change Assessment. The annual rate for refrigerant fugitive emissions was sourced from data published by The Climate Registry.



## 3.0 **REPORTING**

Based off of previous GHG Inventory reports, the estimation of GHG emissions for 2024 was prepared on the basis of best available and historical data and is subject to quantification uncertainty.

#### 3.1. Facilities and Associated Emissions

| Source                      | Source Type                 | Emissions   | Metered? |
|-----------------------------|-----------------------------|-------------|----------|
| Office building<br>heating  | Boiler                      | Natural gas | Yes      |
| Office building cooling     | Chiller (Trane Series<br>R) | R134a       | No       |
| Office building electricity | Dominion Energy             | Electricity | Yes      |

Emissions for 2024 were calculated based on activity data provided by building management for the leased office space. Total building consumption of natural gas and electricity were pro-rated in accordance with MicroHealth's proportionate share of total building office space. Fugitive emissions of the HFC refrigerant R134a from one building chiller were estimated and allocated proportionately to MicroHealth.

#### 3.2. Inventory of Emissions

| Emission<br>Category           | GHG | M Tons     | tCO2-e     | Notes            |
|--------------------------------|-----|------------|------------|------------------|
| Direct stationary<br>emissions | CO2 | 8.93701703 | 8.9370     | From natural gas |
| Direct stationary<br>emissions | CH4 | 0.00016843 | 0.0047     | From natural gas |
| Direct stationary<br>emissions | N2O | 0.00001684 | 0.0046     | From natural gas |
| Direct mobile<br>emissions     | CO2 | 0.00       | 0.00       |                  |
| Direct mobile<br>emissions     | CH4 | 0.00       | 0.00       |                  |
| Direct mobile<br>emissions     | N2O | 0.00       | 0.00       |                  |
| Direct fugitive<br>emissions   | HFC | 0.02463048 | 7.3601     | R134A            |
| TOTAL DIRECT                   |     |            | 16.3064    |                  |
| Energy indirect<br>emissions   | CO2 | 44.0077203 | 44.0077203 | Location-based   |
| Energy indirect<br>emissions   | CH4 | 0.00357730 | 0.0998068  | Location-based   |



| Emission<br>Category         | GHG | M Tons     | tCO2-e     | Notes          |
|------------------------------|-----|------------|------------|----------------|
| Energy indirect<br>emissions | N2O | 0.00013759 | 0.0375617  | Location-based |
| Energy indirect<br>emissions | CO2 | 44.0077203 | 44.0077203 | Market-based   |
| Energy indirect<br>emissions | CH4 | 0.00357730 | 0.0998068  | Market-based   |
| Energy indirect<br>emissions | N2O | 0.00013759 | 0.0375617  | Market-based   |
| TOTAL ENERGY<br>INDIRECT     |     |            | 44.1450888 | Market-based   |
| Bioenergy combustion         | CO2 | N/A        | N/A        | Not Applicable |
| TOTAL<br>BIOENERGY           |     |            | N/A        |                |

#### 3.3. Summary of Emissions in Metric Tons per Greenhouse Gas

| Greenhouse Gas             | Emissions (Metric Tons) | Emissions (Metric Tons of<br>CO2e) |
|----------------------------|-------------------------|------------------------------------|
| Carbon dioxide (CO2)       | 52.94474                | 52.94474                           |
| Methane (CH4)              | 0.00375                 | 0.10451                            |
| Nitrous oxide (N2O)        | 0.00015                 | 0.04216                            |
| HFCs                       | 0.02463                 | 7.76668                            |
| PFCs                       | 0.00                    | 0.00                               |
| Sulfur hexafluoride (SF6)  | 0.00                    | 0.00                               |
| Nitrogen trifluoride (NF3) | 0.00                    | 0.00                               |
| TOTAL                      |                         | 60.45151                           |

# 4.0 SUMMARY

MicroHealth has demonstrated a strong commitment to environmental responsibility by implementing a comprehensive strategy to reduce its greenhouse gas emissions. MicroHealth's efforts have yielded impressive results, with emission numbers consistently remaining below industry averages. This achievement is the result of numerous initiatives designed to minimize the organization's carbon footprint.

One of the primary focuses has been on improving energy efficiency within MicroHealth's facilities. MicroHealth has replaced traditional halogen lighting with more energy-efficient LED alternatives, significantly reducing electricity consumption. Additionally, the installation of automatic motion detection lighting systems ensures that lights are only active when needed, further conserving energy. The Office Management Team has also implemented new procedures and checklists to monitor conference rooms and common areas, ensuring that monitors and other hardware are powered down when not in use.

MicroHealth has extended its environmental efforts beyond just lighting and equipment management. MicroHealth has invested in newer, more eco-friendly appliances that consume less power and operate more efficiently. To reduce emissions associated with commuting,



MicroHealth has embraced remote work opportunities and telework options for its employees. The Human Resources department has gone a step further by offering incentives through benefits packages for employees who choose to use public or shared transportation.

In line with its commitment to responsible resource management, MicroHealth has partnered with an eco-friendly external provider to collect and recycle obsolete hardware, ensuring that electronic waste is properly handled. MicroHealth has also undertaken a comprehensive overhaul of its heating and cooling systems, including duct work and equipment upgrades, to improve overall energy efficiency.

Collaboration with building management (Link Parks) has further enhanced MicroHealth's environmental initiatives. The logistics company overseeing the building has worked closely with tenants, including MicroHealth, to implement additional measures for reducing emissions and overall carbon footprint. These efforts include re-sealing the building's exterior to prevent air leakage and updating and maintaining building equipment to ensure optimal efficiency.

Through these concerted efforts, MicroHealth has positioned itself as a leader in corporate environmental responsibility, demonstrating that business success and ecological stewardship can go hand in hand. MicroHealth's ongoing commitment to reducing greenhouse gas emissions not only benefits the environment but also sets a positive example for other organizations in the industry.

# 5.0 GREENHOUSE GAS REDUCTION EFFORTS

#### 5.1. Greenhouse Gas Reduction Goals Approach

In efforts to continue to lower our emissions output, MicroHealth has set additional goals to meet within the next few years. Our main initiative will be downsizing MicroHealth's facility by eliminating the 7th floor offices once our lease expires, which is a significant opportunity to reduce energy costs and minimize MicroHealth's carbon footprint. This decision aligns well with our current hybrid work environment, where many employees split their time between remote and office location. By consolidating operations onto fewer floors and workspaces, MicroHealth can substantially decrease its overall energy consumption. The immediate impact would be seen in reduced heating, cooling, and lighting costs for the vacated space. This change would lower electricity usage for lighting, computer equipment, and other office machines, as well as decrease the demand on HVAC systems. Additionally, elevators would have reduced usage, further contributing to energy savings.

The decision to downsize by removing an entire floor from our footprint also opens up possibilities for more efficient space utilization in the remaining areas. MicroHealth could optimize its office layout to ensure its energy efficiency, potentially incorporating more openplan spaces that are easier to heat and cool. This consolidation could also provide an opportunity to upgrade to more energy-efficient lighting and equipment in the consolidated space. Furthermore, the reduction in overall square footage would likely result in lower maintenance costs and potentially reduced rent or lease expenses. This strategic downsizing not only contributes to MicroHealth's sustainability goals but also aligns with modern workplace trends that favor more compact, efficient, and collaborative office environments.



#### 5.2. Greenhouse Gas Reduction Goals

To achieve a quantitative measurable approach to reduce greenhouse gases, we are aiming to decrease our total office space by 40.24% through the elimination of the 7th floor once the lease has expired, which translates to approximately 11,167 square feet of reduced occupancy. This reduction in space could lead to a targeted 40.24% decrease in overall energy consumption, equivalent to saving roughly 60,000 kWh of electricity annually. This could in turn reduce our carbon emissions by 23 metric tons per year as a result of this downsizing.

Below are the listed goals and measures for when the 7<sup>th</sup> floor is no longer utilized to reduce emissions and carbon footprint which is set to be achieved by end of Quarter 1, 2026:

| Goal   | Description   | Quantitative Measure                       | Date to Achieve |
|--|---|--|-----------------|
| Decrease Energy<br>Consumption                   | Decreasing overall<br>energy consumption  | Reduce overall consumption by 40.24% total | April 2026      |
| Reduce Square<br>Foot Occupancy                  | Decreasing overall<br>space will reduce the<br>utilizes and energy<br>consumption | Reduce by 11,167 Square Feet<br>Total      | April 2026      |
| Reduce Annual<br>Average Kilowatt<br>Consumption | Decrease annual<br>electricity usage by<br>saving overall space                   | Reduce by 60,000 kWh<br>annually           | April 2026      |
| Reduce Annual<br>Average Carbon<br>Emissions     | Decrease annual<br>carbon emissions by<br>saving overall space                    | Reduce by 23 Metric Tons annually          | April 2026      |

Additionally, MicroHealth could also lower its utility costs by 40.24%, annually. By setting these quantifiable objectives, MicroHealth can more effectively measure the impact of its downsizing efforts and adjust strategies as needed to maximize energy and cost savings. To track progress, we will establish a baseline of current energy usage and costs, then monitor these metrics after the downsizing to ensure they're meeting or exceeding the set targets.



## 6.0 DECLARATION APPROVALS

By signing below, the parties attest that the information provided in this document is true, accurate, and complete to the best of their knowledge.

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Page McNall – Sr. Director of Organizational Performance