



2022 Greenhouse Gas Inventory

**Greenhouse Gas Inventory Report for the 2022 Emissions Year**

Prepared By: Futurepast Inc.

**Organization Name:** MicroHealth LLC

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**Emissions Reporting Year:** 2022

**GHG Gases Reported (check one):**

- CO<sub>2</sub> only
- 7 GHGP GHGs (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, SF<sub>6</sub>, HFCs, PFCs, NF<sub>3</sub>)

**Criteria:** MicroHealth reported their 2022 greenhouse gas (GHG) emissions in accordance with the requirements of the GHG Protocol: A corporate accounting and reporting standard, revised edition.

**Base Year 2022:** MicroHealth LLC first reported its GHG emissions in 2022 and has no prior emissions profile to report. MicroHealth occupies 27,755 square feet (2759 square meters) of office space in the Tysons Corporate Office building.

**Organizational Description:** MicroHealth LLC specializes in health information technology. The Company offers program management, research, business intelligence, systems engineering, software development, human factors, enterprise architecture, mobile technology, and electronic health records.

**Establishment of Organizational Boundaries (check one):**

- Control Approach with Equity Share - Operational Control Criteria
- Control Approach with Equity Share - Financial Control Criteria
- Control Approach - Operational Control Criteria
- Control Approach - Financial Control Criteria

**Operational Boundaries:** MicroHealth LLC reports direct emissions (Scope 1) and energy indirect emissions (Scope 2) of carbon dioxide, (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) associated with its occupancy of leased office space in Vienna, Virginia.

**Summary of 2022 Emissions in Metric Tons per Greenhouse Gas**

Greenhouse Gas	Emissions (Metric Tons)	Emissions (Metric Tons of CO <sub>2</sub> e)
Carbon dioxide (CO <sub>2</sub> )	52.94474	52.94474
Methane (CH <sub>4</sub> )	0.00375	0.10451
Nitrous oxide (N <sub>2</sub> O)	0.00015	0.04216
HFCs	0.02463	7.76668

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PFCs	0.00	0.00
Sulfur hexafluoride (SF <sub>6</sub> )	0.00	0.00
Nitrogen trifluoride (NF <sub>3</sub> )	0.00	0.00
<b>TOTAL</b>		60.45151

### 2022 Inventory of Emissions

Emission Category	GHG	M Tons	tCO <sub>2</sub> -e	Notes
Direct stationary emissions	CO <sub>2</sub>	8.93701703	8.9370	From natural gas
Direct stationary emissions	CH <sub>4</sub>	0.00016843	0.0047	From natural gas
Direct stationary emissions	N <sub>2</sub> O	0.00001684	0.0046	From natural gas
Direct mobile emissions	CO <sub>2</sub>	0.00	0.00	
Direct mobile emissions	CH <sub>4</sub>	0.00	0.00	
Direct mobile emissions	N <sub>2</sub> O	0.00	0.00	
Direct fugitive emissions	HFC	0.02463048	7.3601	R134A
<b>TOTAL DIRECT</b>			<b>16.3064</b>	
Energy indirect emissions	CO <sub>2</sub>	44.0077203	44.0077203	Location-based
Energy indirect emissions	CH <sub>4</sub>	0.00357730	0.0998068	Location-based
Energy indirect emissions	N <sub>2</sub> O	0.00013759	0.0375617	Location-based
Energy indirect emissions	CO <sub>2</sub>	44.0077203	44.0077203	Market-based
Energy indirect emissions	CH <sub>4</sub>	0.00357730	0.0998068	Market-based
Energy indirect emissions	N <sub>2</sub> O	0.00013759	0.0375617	Market-based
<b>TOTAL ENERGY INDIRECT</b>			<b>44.1450888</b>	Market-based
Bioenergy combustion	CO <sub>2</sub>	NA	NA	Not Applicable
<b>TOTAL BIOENERGY</b>		NA	NA	

### Emissions Methodologies

Emissions for 2022 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.

Emission factors (EFs) for the consumption of natural gas were obtained from tables 1 and 6 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 reported emission rates for the year 2021. Global warming potentials were sourced from the Intergovernmental Panel on Climate Change Assessment Report 6. The annual rate for refrigerant fugitive emissions was sourced from a table published by The Climate Registry.

The estimation of GHG emissions for 2022 was prepared on the basis of best available data and is subject to quantification uncertainty.

### Facilities and Associated Emissions

Source	Source Type	Emissions	Metered?
Office building heating	Boiler	Natural gas	Yes
Office building cooling	Chiller (Trane Series R)	R134a	No



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Office building electricity	Dominion Energy	Electricity	Yes
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**Exclusions:** MicroHealth LLC is not reporting Scope 3 emissions for 2022.

**Verification:** This emissions report was not third-party verified.