

The logo for Sigma Tech, Inc. features a red Greek letter sigma symbol (Σ) with a registered trademark symbol (®) to its right, followed by the text "TECH, INC." in a bold, red, sans-serif font. The entire logo is contained within a white oval with a black border.

**Σ<sup>®</sup> TECH, INC.**

**SIGMATECH, INC.**

***Green House Gas (GHG)  
Inventory***

**Sigmattech Proprietary**

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# Inventory Boundary

## **Organizational Boundary**

- Corporate Enterprise
  - Space & Air Enterprises Division (SAED)
  - Army Enterprises Division (AED)

## **Consolidation Approach**

- 100% of emissions from operations for which Sigmatech has operational control
- Scope 1 & 2 emissions

## **Covered Activities**

- Stationary Combustion
- Refrigeration and AC
- Electricity

## **Excluded Activities (N/A in Sigmatech facilities)**

- Mobile Sources
- Fire Suppression
- Purchased Gases
- Steam

**Reporting Period – CY22 (NOTE: This is the Baseline Year)**



# Inventory Considerations/Methods

Sigmattech is a Department of Defense service provider proven in it's capability to deliver management, technical, engineering, E-learning and training solutions. Sigmattech is **NOT** a manufacturer.

### Sigmattech Facilities

- Owned- None
- Leased- 9 total (7 in boundary / 2 not in boundary)
- Facilities not in the defined Boundary (No Operational Control)
  - Clark St Arlington STE 1200 (KLO)
  - 4590 Corporate Dr HSV (KLO)

### Sigmattech Mobile Sources

- Owned- None
- Leased- None

EPA GHG Emissions Calculator Boundary  
 Questions Input provided by facility  
 Managers/Owners

In Boundary Leased Facilities - ID	Description	Sigmattech Leased SF	Facility Total SF	% SF
HQ 1-O	4901 Corporate Dr-C HSV	15,168		
HQ 1a-O	*4901 Corporate Dr-A HSV	8,037		
C1	5030 Edison Ave CoS	9,000	9,000	100%
C2	5050 Edison Ave CoS	5,570	36,431	15.29%
C3	12325 Oracle Blvd CoS	2,937	20301	14.5%
NCR	Clark St Arlington	7,427	335,926	2.21%
CC	Cape Canaveral	286	3,178	9.00%
APG	Belcamp MD	2,392	100,379	2.38%

# Emissions Summary

<b>Scope 1 Emissions</b>	<b>Emissions CO<sub>2</sub>-e (metric tons)</b>
Stationary Combustion	90
Mobile Sources	0
Refrigeration/AC	28
Fire Suppression	0
Purchased Gases	0
<b>Location-Based Scope 2 Emissions</b>	<b>Emissions CO<sub>2</sub>-e (metric tons)</b>
Purchased and Consumed Electricity	524
Purchased and Consumed Steam	0
<b>Market-Based Scope 2 Emissions</b>	<b>Emissions CO<sub>2</sub>-e (metric tons)</b>
Purchased and Consumed Electricity	524
Purchased and Consumed Steam	0
<b>Total Organizational Emissions</b>	<b>Emissions CO<sub>2</sub>-e (metric tons)</b>
Total Scope 1 & Location-Based Scope 2	642
Total Scope 1 & Market-Based Scope 2	642
<b>Reductions</b>	<b>Emissions CO<sub>2</sub>-e (metric tons)</b>
Offsets	0
<b>Net Scope 1 and 2 Location-Based Emission</b>	<b>642</b>
<b>Net Scope 1 and 2 Market-Based Emission</b>	<b>642</b>

# Supplemental Information

	Co2-e (metric tons)
Biomass CO2 Emissions from Stationary Sources	0
Biomass CO2 Emissions from Mobile Sources	0

Sigmattech utilized the EPA Center for Corporate Climate Leadership  
U.S. Environmental Protection Agency – EPA Simplified GHG Emissions  
Calculator (August 2022)



# Scope 1 Emissions Stationary Combustion

Source ID	Source description	Source Area (SF)	Fuel Combusted	QTY Combusted	Units
HQ 1-O	*4901 Corporate Dr-C HSV	15,168	Natural Gas	0	SCF
HQ 1a-O	4901 Corporate Dr-A HSV	8,037	Natural Gas	198,900	SCF
C1	5030 Edison Ave CoS	9,000	Natural Gas	244,900	SCF
C2	5050 Edison Ave CoS	5,570	Natural Gas	407,200	SCF
C3	12325 Oracle Blvd CoS	2,937	Natural Gas	715,100	SCF
APG	Belcamp MD	2,392	Natural Gas	82,046	SCF
NCR	Clark St Arlington		N/A		
CC	Cape Canaveral		N/A		

Fuel Type	CO <sub>2</sub> (kg)	CH <sub>4</sub> (g)	N <sub>2</sub> O (g)
Natural gas	89,725.0	1,697.6	164.8
<b>Total Fossil Fuel Emissions</b>	<b>CO2 (kg)</b>	<b>CH4 (g)</b>	<b>N2O (g)</b>
	89,725.0	1,697.6	164.8
<b>Total Fossil Fuel Emissions</b>	<b>CO2 (kg)</b>	<b>CH4 (g)</b>	<b>N2O (g)</b>
	0	0	0
<b>Total Emission All Fuels</b>	<b>CO2 (kg)</b>	<b>CH4 (g)</b>	<b>N2O (g)</b>
	89,725.0	1,697.6	164.8

- \*Suite not separately billed/metered for gas
- Based on % total facility SF



# Scope 1 Emissions Refrigeration/AC

Source ID	Source description	Type of Equipment	Gas	New Units Charged (kg)	Operating Units (kg)	Disposed Units (kg)	Co2 Equivalent Emissions (kg)
HQ 1-O	4901 Corporate Dr-C HSV	Res/Comm A/C	R-422D	N/A	59	0	16,092.4
HQ 1a-O	*4901 Corporate Dr-A HSV	Res/Comm A/C	N/A	N/A	0	0	
C1	5030 Edison Ave CoS	Res/Comm A/C	R-410A	N/A	40.0	0	8,352.0
C2	5050 Edison Ave CoS	Res/Comm A/C	R-422D	N/A	2.8	0	750.5
C2	5050 Edison Ave CoS	Res/Comm A/C	R-422D	N/A	2.8	0	750.5
C2	5050 Edison Ave CoS	Res/Comm A/C	R-410A	N/A	2.8	0	574.2
C3	12325 Oracle Blvd CoS	Res/Comm A/C	R-422D	N/A	0.0	0	5.5
NCR	Clark St Arlington	Chillers	HFC-134a		0.1	0	24.7
CC	Cape Canaveral	Res/Comm A/C	R-422D	N/A	3.1	0	846.0
APG	Belcamp MD	Res/Comm A/C	R-422D	N/A	0.6	0	161.0
<b>Total CO2 Equivalent Emission – Refrigerant and AC Equipment</b>							<b>Metric Tons</b>
							66.0

- \*Suite not separately serviced
- Based on % total facility SF
- Gases not listed are N/A



# Scope 2 Emissions Electricity

Source ID	Source Description	Source Area (sq ft)	eGRID Subregion <i>where electricity is consumed</i>	Electricity Purchased (kWh)	Market-Based Emissions						Location-Based Emissions		
					CO <sub>2</sub> Factors (lb/MWh)	CH <sub>4</sub> Factors (lb/MWh)	N <sub>2</sub> O Factors (lb/MWh)	CO <sub>2</sub> Emissions (lb)	CH <sub>4</sub> Emissions (lb)	N <sub>2</sub> O Emissions (lb)	CO <sub>2</sub> Emissions (lb)	CH <sub>4</sub> Emissions (lb)	N <sub>2</sub> O Emissions (lb)
HQ 1-O	4901 Corporate Dr C HSV	15,168	SRTV (SERC Tennessee Valley)	892,540	834.2	0.075	0.011	744,556.9	66.9	9.8	744,556.9	66.9	9.8
HQ 1a-O	4901 Corporate Dr A HSV	8,037	SRTV (SERC Tennessee Valley)	248,880	834.2	0.075	0.011	207,615.7	18.7	2.7	207,615.7	18.7	2.7
C1	5030 Edison Ave CoS	9,000	NWPP (WECC Northwest)	40,253	600	0.056	0.008	24,151.8	2.3	0.3	24,151.8	2.3	0.3
C 2	5050 Edison Ave CoS	5,570	NWPP (WECC Northwest)	91,129	600	0.056	0.008	54,677.4	5.1	0.7	54,677.4	5.1	0.7
C 3	Oracle Blvd CoS	2,937	NWPP (WECC Northwest)	145,960	600	0.056	0.008	87,576.0	8.2	1.2	87,576.0	8.2	1.2
NCR	1235 Clark Arlington	7,427	RFCE (RFC East)	174	652.5	0.045	0.006	113.6	0.0	0.0	113.6	0.0	0.0
CC	Cape Canaveral	286	FRCC (FRCC All)	4,592	835.1	0.049	0.006	3,834.8	0.2	0.0	3,834.8	0.2	0.0
APG	Belcamp MD	2,392	RFCE (RFC East)	40,903	652.5	0.045	0.006	26,689.3	1.8	0.2	26,689.3	1.8	0.2
<b>Total Emissions All Sources</b>				<b>1,464,431</b>				<b>1,149,215.4</b>	<b>103.2</b>	<b>15.0</b>	<b>1,149,215.4</b>	<b>103.2</b>	<b>15.0</b>



No facility uses Steam as a fuel