



SIGMATECH, INC.

***Green House Gas (GHG)
Inventory 2025***

Sigmattech Proprietary

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Organizational Boundary

- Corporate Enterprise
 - Space Western Division (SWD)
 - Space Central Division (SCD)
 - Space Eastern Division (SWD)
 - Systems Analysis and Engineering Division (SAED)

Consolidation Approach

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

Covered Activities

- Stationary Combustion
- Refrigeration and AC
- Mobile Sources
- Electricity

Excluded Activities (N/A in Sigmatech facilities)

- Fire Suppression
- Purchased Gases
- Steam

Reporting Period – CY25

Targets

- Reduce scope 1 and 2 (market-based) GHG emissions by 20% by 2035 from a 2022 baseline
- Reduce scope 3 emissions (purchased good and services, business travel, commuter travel, capital goods, waste generated, and fuel and energy consumption) by 30% by 2035 from a 2022 baseline
- Reduce emissions across our Value Chain by 30% by 2035
- Commit to better understand GHG emissions associated our business operations and collaborate with customers and partners to improve data collection while ensuring data is integrated into business decision making.

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- 1 Dodge Ram

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	631 Discovery Dr. HSV	26,500	26,500	100%
C1	5030 Edison Ave CoS	9,000	9,000	100%
C2	5050 Edison Ave CoS	6922*	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	3403*	3,178	9.00%
APG	Belcamp MD	2,392	100,379	2.38%

*Increased SF at C2 and CC

Emissions Summary

Scope 1 Emissions	Emissions CO₂-e (metric tons)
Stationary Combustion	65
Mobile Sources	1
Refrigeration/AC	280
Fire Suppression	0
Purchased Gases	0
Location-Based Scope 2 Emissions	Emissions CO₂-e (metric tons)
Purchased and Consumed Electricity	365
Purchased and Consumed Steam	0
Market-Based Scope 2 Emissions	Emissions CO₂-e (metric tons)
Purchased and Consumed Electricity	437
Purchased and Consumed Steam	0
Total Organizational Emissions	Emissions CO₂-e (metric tons)
Total Scope 1 & Location-Based Scope 2	711
Total Scope 1 & Market-Based Scope 2	783
Reductions	Emissions CO₂-e (metric tons)
Offsets	0
Net Scope 1 and 2 Location-Based Emission	711
Net Scope 1 and 2 Market-Based Emission	783

	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*	631 Discovery Dr. HSV	26,500	N/A	0	SCF
C1	5030 Edison Ave CoS	9,000	Natural Gas	118,707	SCF
C2	5050 Edison Ave CoS	6,922	Natural Gas	989,000	SCF
C3	12325 Oracle Blvd CoS	2,937	Natural Gas	88,511	SCF
APG	Belcamp MD	3,403	Natural Gas	9	SCF
NCR	Clark St Arlington	7,427	N/A	0	SCF
CC	Cape Canaveral	3,403	N/A	0	SCF

Fuel Type	CO ₂ (kg)	CH ₄ (g)	N ₂ O (g)
Natural gas	65,122.6	1,232.1	119.6
Total Fossil Fuel Emissions	CO2 (kg)	CH4 (g)	N2O (g)
	65,122.6	1,232.1	119.6
Total Fossil Fuel Emissions	CO2 (kg)	CH4 (g)	N2O (g)
	0	0	0
Total Emission All Fuels	CO2 (kg)	CH4 (g)	N2O (g)
	65,122.6	1,232.1	119.6

- Based on % total facility SF
- Additional space added at C2

Scope 1 Emissions Mobile Sources

Source ID	Source description	On-Road / Off0Road	Vehicle Type	Year	Fuel usage	Units	Miles Traveled
HQ1	Corporate Vehicle	On-Road	Light-Duty Trucks - Gasoline	2022	61	gal	680

Fuel Type	Fuel Usage (Gal)	CO ₂ (kg)	CO ₂ (metric tons)
Motor Gasoline	61	536.6	0.5

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	631 Discovery Dr. NW HSV	Med/Lg Comm.	R-422D	N/A	59.0	0	56,353.9
C1	5030 Edison Ave CoS	Med/Lg Comm.	R-410A	N/A	40.0	0	29,232.0
C2	5050 Edison Ave CoS	Med/Lg Comm.	R-422D	N/A	54.4	0	51,990.7
C2	5050 Edison Ave CoS	Med/Lg Comm.	R-422D	N/A	54.4	0	51,990.2
C2	5050 Edison Ave CoS	Med/Lg Comm.	R-422D	N/A	54.4	0	51,960.2
C3	12325 Oracle Blvd CoS	Med/Lg Comm.	R-422D	N/A	8.2	0	9,273.2
NCR	Clark St Arlington	Chillers	HFC-134a		23.1	0	4,946.4
CC	Cape Canaveral	Med/Lg Comm.	R-422D	N/A	14.8	0	10,815.8
APG	Belcamp MD	Med/Lg Comm.	R-422D	N/A	11.4	0	10,907.8
Leased Truck	Corporate vehicle	Light-Duty Truck A/C units	HFC-134a	N/A	10.0		2,860.0
Total CO2 Equivalent Emission – Refrigerant and AC Equipment							Metric Tons
							280.3

- Based on % total facility SF
- Gases not listed are N/A
- Adjusted Res/Comm/AC to Medium/Large Comm based on capacity – **significant impact**
- Belcamp office actual reporting vice market average – **significant impact**

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 ₂ Factors (lb/MWh)	CH ₄ Factors (lb/MWh)	N ₂ O Factors (lb/MWh)	CO ₂ Emissions (lb)	CH ₄ Emissions (lb)	N ₂ O Emissions (lb)	CO ₂ Emissions (lb)	CH ₄ Emissions (lb)	N ₂ O Emissions (lb)
					HQ	631 Discovery Dr NW HSV	26,500	SRTV (SERC Tennessee Valley)	463,826	895.7		0.383	415,448.9
C1	5030 Edison Ave CoS	9,000	NWPP (WECC Northwest)	149,270	600		0.568	89,562.0	8.4	84.8	89,562.0	8.4	1.2
C 2	5050 Edison Ave CoS	5,570	NWPP (WECC Northwest)	197,515	600		0.568	118,509.0	11.1	112.2	118,509.0	11.1	1.6
C 3	Oracle Bldv CoS	2,937	NWPP (WECC Northwest)	20,424	600		0.568	12,254.4	1.1	11.6	12,254.4	1.1	0.2
NCR	1235 Clark Arlington	7,427	RFCE (RFC East)	149,308	652.5		0.202	97,423.2	6.7	30.2	97,423.2	6.7	0.9
CC	Cape Canaveral	3403	FRCC (FRCC All)	26,358	835.1		0.248	22,011.4	1.3	6.5	22,011.4	1.3	0.2
APG	Belcamp MD	2,392	RFCE (RFC East)	113,887	652.5		0.202	74,311.3	5.1	23.0	74,311.3	5.1	0.7
Total Emissions All Sources				922,512				695,678.8	58.0	370.9	668,411.2	58.0	8.3

- Based on % total facility SF
- New CC facility w/3117 increase in SF – **significant impact**
- Belcamp office actual reporting vice market average – **significant impact**

No facility uses Steam as a fuel