



Cryotech Deicing Technology

Sustainability Report

2024

About Cryotech

Cryotech Deicing Technology is an affiliate of General Atomics, a San Diego based company specializing in defense and diversified technologies. Cryotech is the North American market leader for acetate-based liquid and solid pavement deicers and propylene glycol-based aircraft deicing fluids. Its reliable delivery of high-quality products into the aviation industry allows airports, airlines and military installations to operate safely during winter weather events. Cryotech also serves the agriculture industry, leveraging its proximity to customers and expertise in chemical manufacturing to expand its product portfolio. Cryotech is focused on growth and the diversification of its products and services.

About General Atomics (GA)

General Atomics was conceived in 1955 at San Diego, California for the purpose of harnessing the power of nuclear technologies for the benefit of mankind. General Atomics' basic research into fission and fusion has matured into competence in many technologies, making GA and its affiliated companies one of the world's leading resources for high-technology systems development ranging from the nuclear fuel cycle to remotely operated surveillance aircraft, airborne sensors, and advanced electric, electronic, wireless and laser technologies.

Report Scope

Cryotech's 2024 Sustainability Report summarizes the sustainability performance of Cryotech Deicing Technology at the Fort Madison facility.

BUSINESS POLICY

VISION

We are committed to the prosperity of our customers, employees, and the planet by providing smart, innovative solutions.

MISSION

We responsibly formulate, manufacture, and deliver industry-leading products and resources with an exceptional customer experience.

CORE VALUES



COMMITMENT TO CUSTOMER

We honor our commitments and delight our customers, building trust through responsible actions and honest relationships.



RESPECT

We value everyone and treat people with dignity and professionalism, supporting the authentic self.



YIELD INNOVATIVE PRODUCTS

We embrace original thinking and passion to innovate new products, technology, and our future.



OPENNESS

We are each accountable and responsible for our words, our actions, and our results. We comply with all regulations, legal and other requirements.



TEAMWORK

We achieve more when we are engaged and collaborate and work as one. We are united in our vision, mission, and values, which serve as the framework to set business objectives.



ENVIRONMENTAL STEWARDSHIP

We respect the air, land, and water as we thoughtfully put earth's resources to good use.



CONTINUAL IMPROVEMENT

We constantly strive to improve products, processes, and services. We identify and invest in growth and diversification.



HEALTH AND SAFETY

We are committed to provide safe and healthy working conditions for all. We encourage worker consultation and participation to eliminate hazards and reduce risks in our workplace.



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Forward

With the increasing interest of Cryotech's customers and stakeholders in its sustainability reporting, Cryotech has initiated the publishing of its Sustainability Report on an annual basis. This change has brought some challenges. Namely, as a small company in a weather-dependent business, variations in weather and production levels affect many of the metrics commonly used to measure progress against long-term goals. Where appropriate, rather than use year-to-year comparisons excessively influenced by weather, comparisons are made to historical multi-year averages.

2024 also marks the first year Cryotech has reported Scope 3 CO₂ e emissions. After extensive analysis, Cryotech determined that four categories of Scope 3 emissions were significant and material to its operations: Purchased Goods and Services; Upstream Transportation; Downstream Transportation; and Purchase of Capital Goods. Other categories (Waste Generated in Operations, Business Travel, Employee Commuting, Processing of Sold Products, Use of Sold Products, End-of-Life Treatment of Sold Products, Downstream Leased Assets, Franchises, and Investments) consisted of less than 1% of total emissions and were immaterial to the scope of operations and therefore not reported.

Growth in diversified products that are not dependent on weather has bolstered Cryotech's sales and revenues in years with minimal winter weather, but these products also require a significant amount of energy to produce. As a result, Cryotech is reporting an increase in total energy intensity and CO₂ e emissions in 2024. Even with these increases, Cryotech compares favorably to its peers and is working aggressively to reduce the energy intensity of these new products.

Corporate Governance and Accountability

General Atomics International Services Corporation, dba Cryotech Deicing Technology is subject to and complies with General Atomics' Code of Business Ethics and Standards of Conduct.

It is the policy of Cryotech to comply with all laws governing its domestic and foreign operations and to conduct its affairs in keeping with the highest moral, legal, and ethical standards. This Code of Business Ethics and Standards of Conduct is endorsed by Cryotech's president and applies to all employees of Cryotech.

The policy specifically identifies requirements for its commitment to product quality and safety, fair business competition, maintenance of accurate business records, fair employment practices, legal and fair interactions with customers and suppliers, protection of the environment and employee safety and health, and maintenance of a position of trust. The policy also identifies procedures for reporting ethical violations both internally and externally and specifies that employees who report such irregularities are protected from adverse action or retribution.

The policy is available to employees on Cryotech's website.

Responsible Development

Cryotech's Responsible Development Team operates under the direction of Cryotech management and is responsible to develop and implement initiatives to improve the performance of Cryotech in the areas of environmental stewardship, sustainability, social governance, and corporate citizenship.

Employee Health & Safety

Cryotech has integrated protection of employee safety and health into its mission, as stated in the Company Business Policy. In addition, the company is subject to and complies with General Atomics' policy on Environmental Health & Safety.

The policy commits to protect the environment and promote the health and safety of employees, visitors, and communities in which the Company operates and to conduct its operations in full compliance with applicable environmental, health, and safety laws and regulations.

Cryotech's President is responsible for ensuring that all operations within Cryotech are conducted within applicable EH&S laws and regulations. Each Cryotech employee is responsible for EH&S programs and procedures and for attending EH&S training as necessary or appropriate with respect to each employee's job title and duties.

Cryotech's health and safety management system is certified to the ISO 45001 standard.

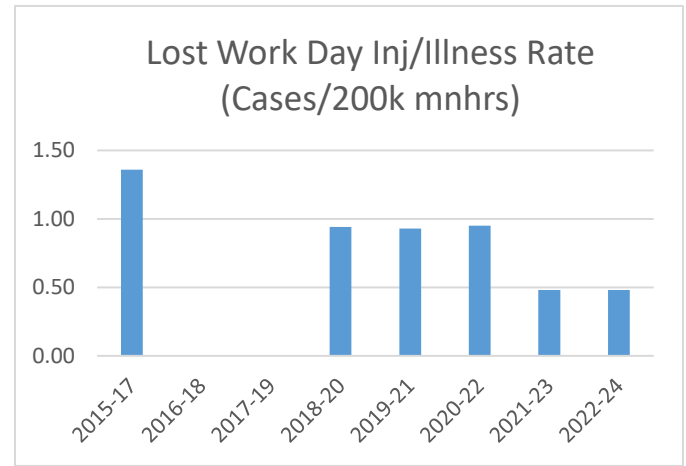
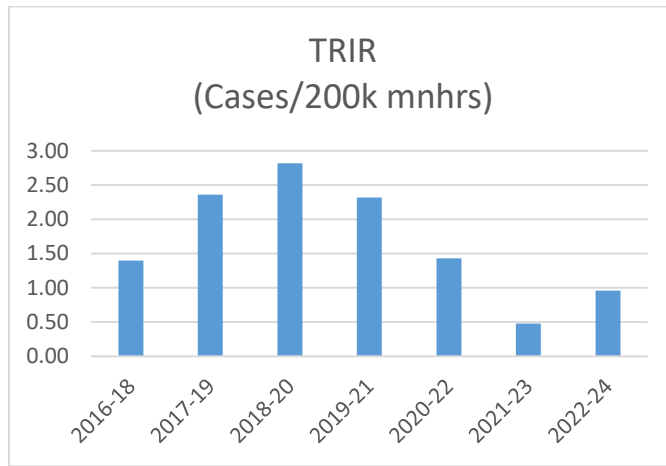
Safety Scorecard

- OSHA Recordable Injury Rate (TRIR)¹: 0.97
- DART Injury Rate²: 0.97

¹ Injuries recorded per U.S Occupational Safety & Health Administration rules. Recordable injury rate (TRIR) = Number of Recordable Injuries x 200, 000/Total Hours Worked (3-year avg.)

² DART Injury Rate = Number of Injury/Illness Cases Requiring Days Away from Work or Restricted Work Days x 200,000/Total Hours Worked. (3-year avg.)

- Lost Work Day Injury/Illness Rate³: 0.49
- Safety Training, 2024: 1673 Training Modules Assigned/1673 Training Modules Completed, 100% Completion



Objectives and Initiatives

- Achieve OSHA Recordable Injury Rate below industry average of 2.1.
- Maintain EH&S-required training at 100% completion.
- Complete EH&S Corrective/Preventive Actions On Time > 97%
- Achieve > 95% Avg Score on Facility EHS Inspections

Employee Engagement & Retention

Cryotech is supported by General Atomics' Human Resources Dept. for employee engagement and retention. Employees are offered opportunities for health, wellness, and professional development through GA programs.

- GA Learning & Organizational Development: General Atomics' Learning & Organizational Development team is committed to partner across the enterprise to provide high quality learning and organizational development services by offering:
 - Leadership development
 - Professional skills development
 - Enterprise learning support services
 - Talent management, assessments, and coaching
- Mission Excellence: Cryotech's and General Atomics' employee recognition program. The company encourages supervisors and peers to formally recognize the performance of team members who go above and beyond on a project or who consistently demonstrate the company's values through its Mission Excellence program. The program features a social sharing wall and monetary awards for excellence.

³ Lost Work Day Injury/Illness Rate= Number of Injury/Illness Cases Requiring Days Away from Work x 200,000/Total Hours Worked. (3-year avg.)

Environmental Performance

Environmental stewardship is a core value at Cryotech Deicing Technology. Cryotech's Environmental Management System has been certified to ISO 14001-2015 standards. The standards require regulatory compliance as well as continuous improvement with respect to the company's environmental aspects.

Significant Environmental Aspects

Cryotech has identified the following significant environmental aspects:

- Solid waste disposal (non-hazardous)
- Air emissions
- Water use
- Energy use
- Chemical spills (potential)

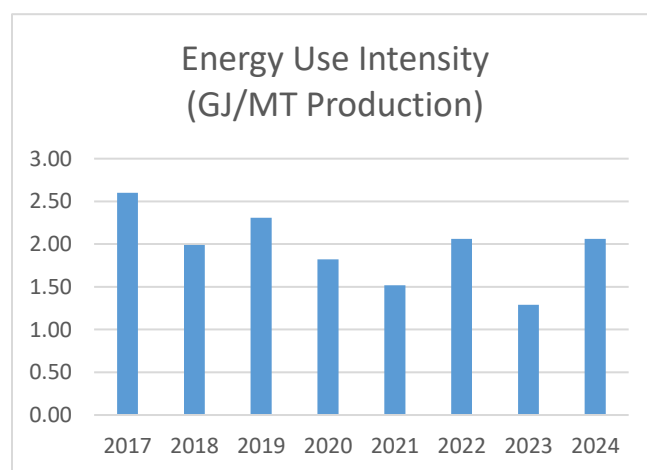
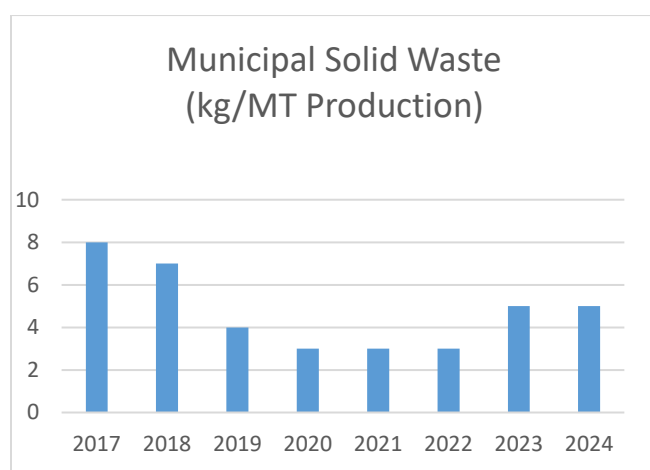
Cryotech has initiated monitoring and measurement systems to quantify these aspects and has established baselines to which the results of future improvement and reduction efforts may be compared.

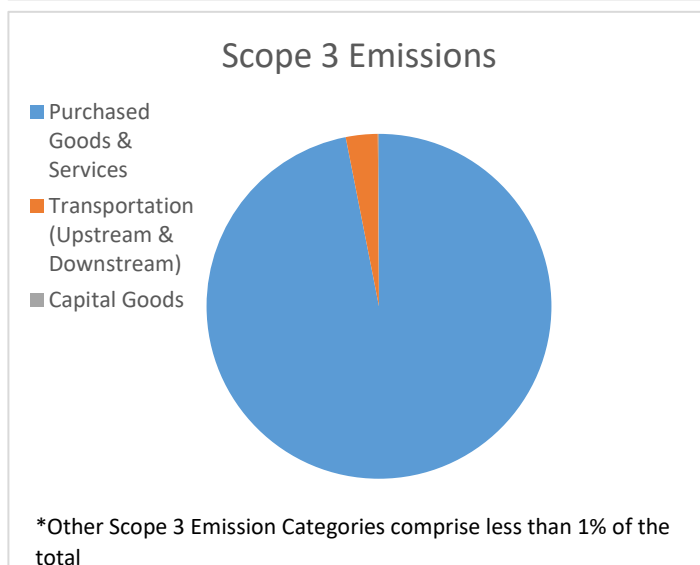
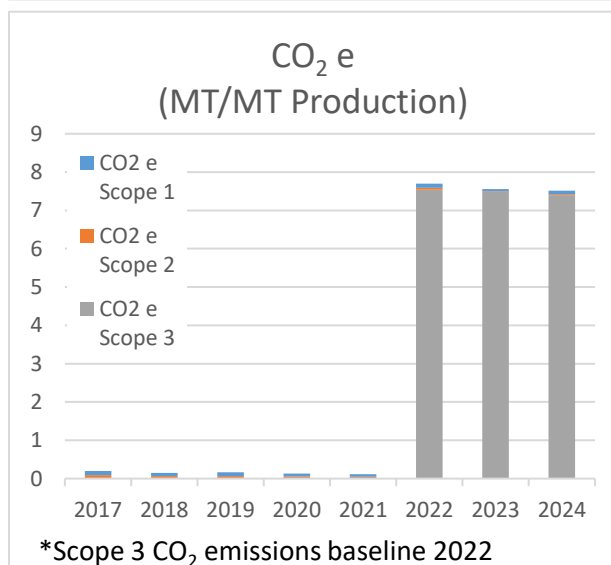
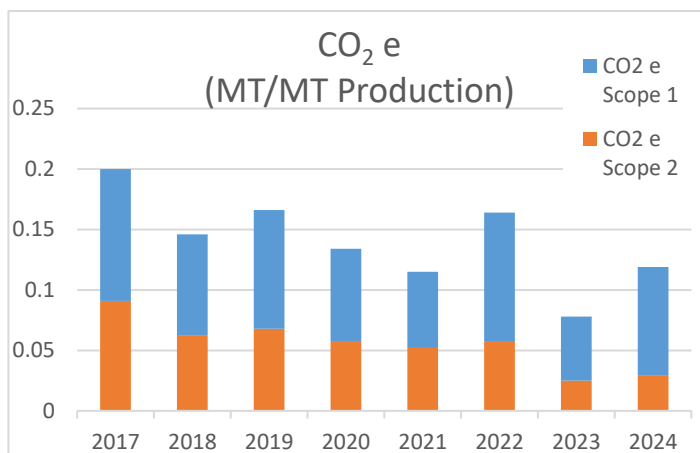
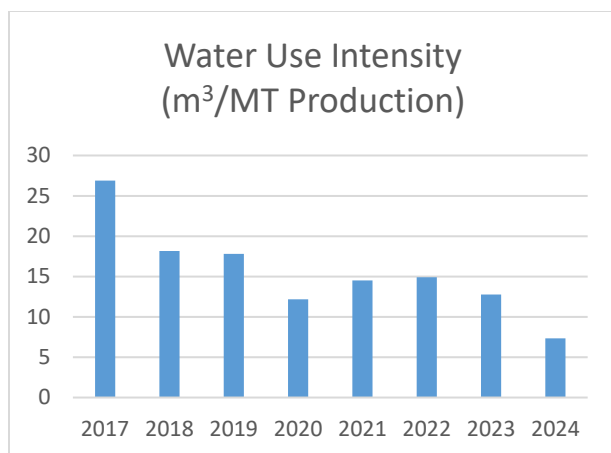
Environmental Scorecard

- Municipal Solid Waste: 5 kg/Metric Ton of Production
- Energy Use Intensity: 2.06 GJ/Metric Ton of Production
- Water Use Intensity: 7.33 m³/Metric Ton of Production
- CO₂ e (scope 1 & scope 2): 0.119 Metric Ton/Metric Ton of Production
- CO₂ e (scope 3): 7.48 Metric Ton/Metric Ton of Production
- Reportable Spills: 0
- NOV's: 0

Cryotech Sustainability in action:

- Cryotech's use of rail transportation for shipment of bulk products and raw materials saves over 8000 tons of CO₂e emissions each year.
- Upgraded equipment and improved processes last year improved the energy efficiency of solid deicer production by over 20%.
- Cryotech has reduced its water use for production and non-contact cooling water by over 2/3 since 2016.
- Cryotech has recycled enough steel to make about 1000 cars.





Scope 3 Emissions

Cryotech established a baseline for Scope 3 emissions for the year 2022.

- **Methodology:** Cryotech evaluated the scope 3 emissions of applicable items in all fourteen categories of scope 3 emissions. Where Cryotech could use primary data, those emission factors were used. Where primary data did not exist, secondary data were used.
- Items that were calculated to contribute less than 1% of the total of Scope 3 emissions were determined to be immaterial for purposes of this calculation.
- Emissions from four categories: Purchased Goods and Services; Upstream Transportation; Downstream Transportation; and Capital Goods were considered material to the operation.

Objectives and Initiatives

- Incorporate energy savings, water savings, and waste reduction elements when possible during planning of capital projects.
- Evaluate alternate raw materials from sustainable sources.

Community Relations

Cryotech strives to be a good neighbor and a good corporate citizen. Corporate sponsorship opportunities that align with the Cryotech Business policy are carefully chosen at the local and national level. Cryotech and its employees actively continue to support the local charities and activities listed below:

- CEO educational program for area high school students to learn about business
- Fort Madison Marina revitalization project
- Breakthrough T1D, to help fund its mission to end Type 1 Diabetes (T1D)
- United Way corporate campaign participant
- Coats for Kids Ride
- Relay for Life Employee campaign
- Toys for Tots collection site
- Parade of Lights event sponsor
- Member of Fort Madison Chamber of Commerce and Lee County Economic Development
- Living Lands & Waters Adopt a River Mile by reducing pollution in and around the river
- Donated to area youth programs and local school organizations, including STEM education opportunities and back-to-school supplies
- Donated to local Food Pantry

Key Performance Indicators

	2018	2019	2020	2021	2022	2023	2024	Δ% vs last 3 yr avg
Employee Health & Safety								
TRIR (inj/200,000 mnhrs)	1.40	2.36	2.82	2.32	1.43	0.48	0.96	-32%
DART Rt (DART case/200,000 mnhrs)	0.93	1.41	1.88	1.39	0.95	0.48	0.96	2%
DAFW Rt (DAFW case/200,000 mnhrs)	0.00	0.00	0.94	0.99	0.95	0.48	0.48	-39%
Work-Related Fatalities	0	0	0	0	0	0	0	--
EHS Training Cmpl Rt (completion %)		100%		100%		100%	100%	0%

Environmental								
Municipal Solid Waste (kg/MT Production)	7	4	3	3	3	5	5	36%
Energy Use Intensity (GJ/MT Production)	1.99	2.31	1.82	1.52	2.06	1.29	2.06	27%
CO ₂ e Intensity Scopes 1 & 2(MT/MT Production)	0.146	0.166	0.134	1.115	0.164	0.078	0.119	0%
CO ₂ e Intensity Scope 3 (MT/MT Production)					7.54	7.48	7.39	-1.60%*
Water Use Intensity (m ³ /MT Production)	18.15	17.81	12.19	14.5	14.92	12.78	7.33	-52.5%
Reportable Spills	0	0	0	0	0	0	0	--
NOV's	0	0	0	0	0	0	0	--

*2024 Scope 3 CO₂ e Intensity is compared to 2022-2023 average.

References for Scope 3 Emissions Calculations

CarbonCloud. (2025, 01 28). *ClimateHub*. Retrieved from <https://apps.carboncloud.com/climatehub>

EPA. (2025, 01 29). *Supply Chain Greenhouse Gas Emission Factors v1.2 by NAICS-6*. Retrieved from Science Inventory:
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