

BioSpectra Inc.

Annual Corporate Sustainability Report 2023

Sustainability Report Background

Sustainability Program

BioSpectra Inc. has established a sustainability program that has undergone rapid development over the past two years. With the growing need to emphasize environmental protection, we understand our role as a manufacturer to minimize our carbon footprint. We have established processes and procedures that are executed by our Product Portfolio and Sustainability Department and the Department of Environmental, Health, and Safety to ensure the sustainability of our organization and this Program.

We currently track Scope 1, 2, and upstream Scope 3 emissions data with set reduction targets on scopes 1 and 2. One of our goals is to set targets for Scope 3 reduction.

The Annual Sustainability Report covers data between the 1 January 2023 to 31 December 2023 period. This report focuses mainly on the Environmental, Social and Governance (ESG) topics as presented in our Materiality Assessment. This disclosure is made public on our website in support of our policy of transparency in reporting.

We strive to improve our reporting tactics as we further our ongoing effort to strengthen and expand our Sustainability Program.

For further information please see our complete CSR found in the first section of our Sustainable Web Page.

Sustainability Report Background

Background Data for Environmental Reporting

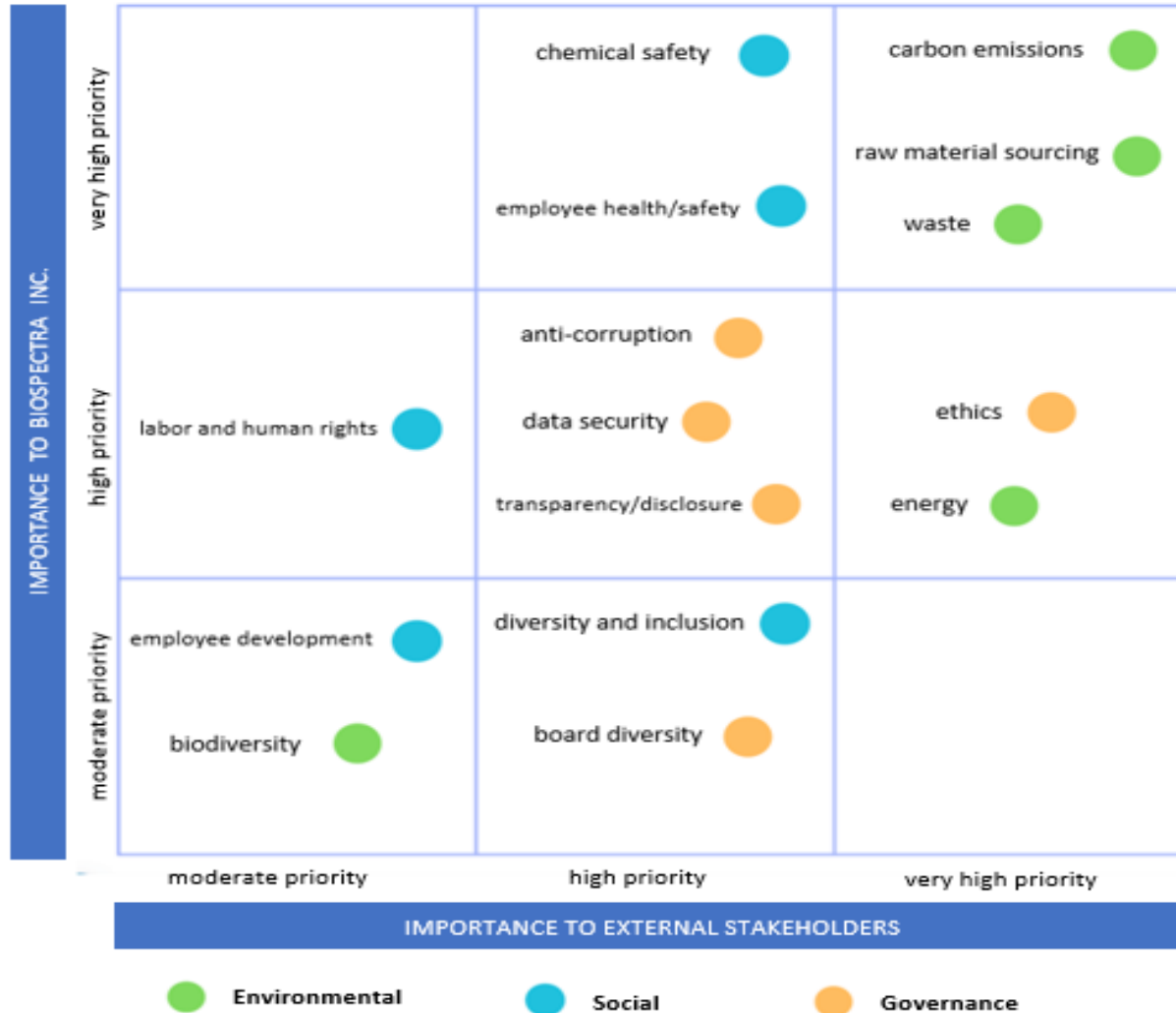
All greenhouse gas calculations are made in collaboration with the M2030 and Emitwise platforms. These third-party verifications enable us to fully understand our emissions scope and further set our materiality goals. We openly track and report on air emissions in compliance with our air permit exemption determined by Pennsylvania's Department of Environmental Protection.

Direct Scope 1 emissions are primarily emitted through Mobile Sources. With the development of our sustainability program, we intend to track more aspects of our Scope 1 emissions.

Our Scope 2 emissions are produced primarily from purchased electricity. BioSpectra, Inc. is currently in the process of shifting to clean energy sources through the purchase of Renewable Energy Credits (RECs) and Carbon Offsets. All energy used in our facility will be renewable by the 2029 reporting year.

We recognize that the bulk of our emissions come from upstream Scope 3 categories. Included in our future goals will be focused on setting Scope 3 emission reduction targets. This includes efforts to include waste reduction and circularity regarding our product stream.

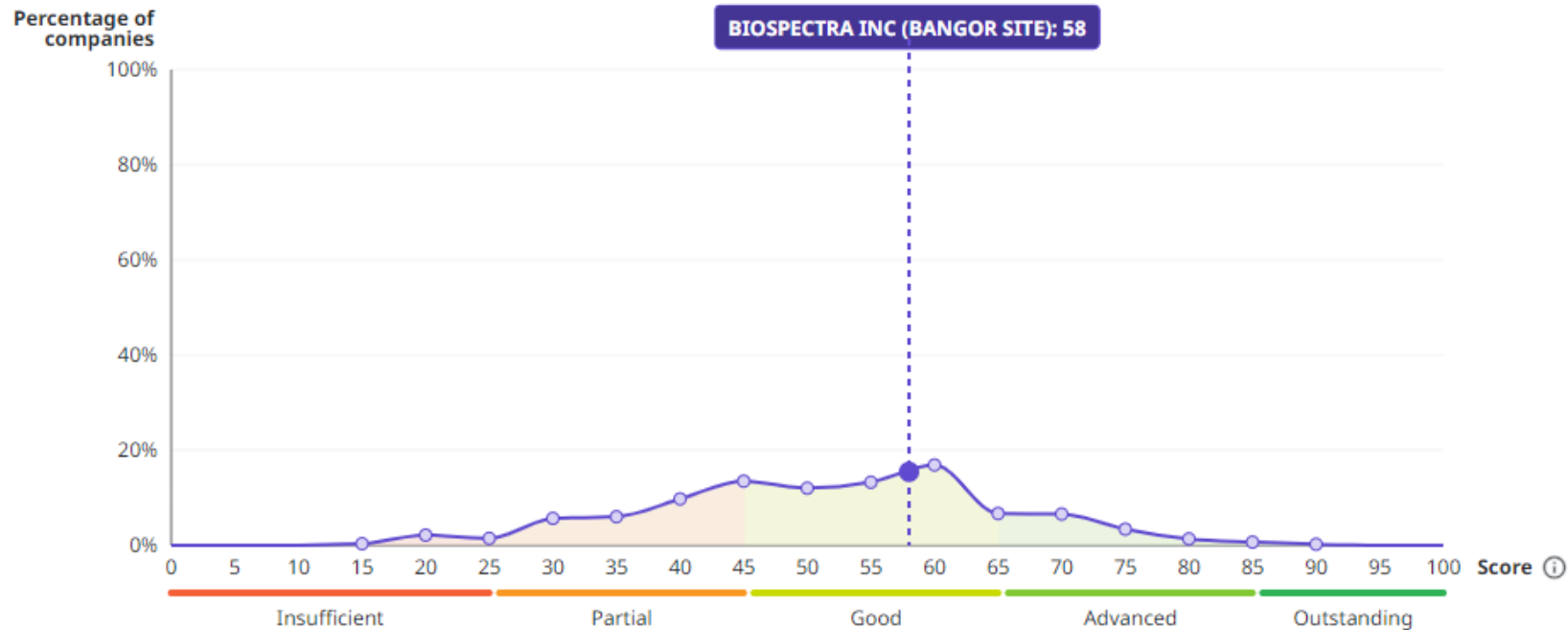
BioSpectra's Materiality Assessment



- BioSpectra's materiality assessment was created to identify the Environmental, Social, and Governance topics that are most relevant towards our company.
- Understanding our sustainability priorities has aided the organization to tackling environmental concerns and draw attention to the necessary implementations needed.
- Ongoing analysis of relevant financial and impact data aids in developing future regulations and internal policy for our operations is part of this effort.

Our EcoVadis Score

Please note: A new assessment was completed in August of 2024 and hope to a score of 65 or higher with our inclusion of carbon reduction data and other key (heavily weighted) initiatives that was not part of our previous assessment.



Data covers a 12-month period ⓘ

● BIOSPECTRA INC (BANGOR SITE)

○ Other companies (251 - 1000) ⓘ

Our Role in the Value Chain:

- We understand the significance of our emissions as a manufacturer, this is why we track Scope 1, Scope 2, and Scope 3 emissions.

Scope 1 Emissions

Stationary Combustion	0	CO ₂ -e (metric tons)
Mobile Sources	171	CO ₂ -e (metric tons)
Refrigeration / AC Equipment Use	0	CO ₂ -e (metric tons)
Fire Suppression	0	CO ₂ -e (metric tons)
Purchased Gases	0	CO ₂ -e (metric tons)

Location-Based Scope 2 Emissions

Purchased and Consumed Electricity	1,212	CO ₂ -e (metric tons)
Purchased and Consumed Steam	0	CO ₂ -e (metric tons)

Market-Based Scope 2 Emissions

Purchased and Consumed Electricity	1,212	CO ₂ -e (metric tons)
Purchased and Consumed Steam	0	CO ₂ -e (metric tons)

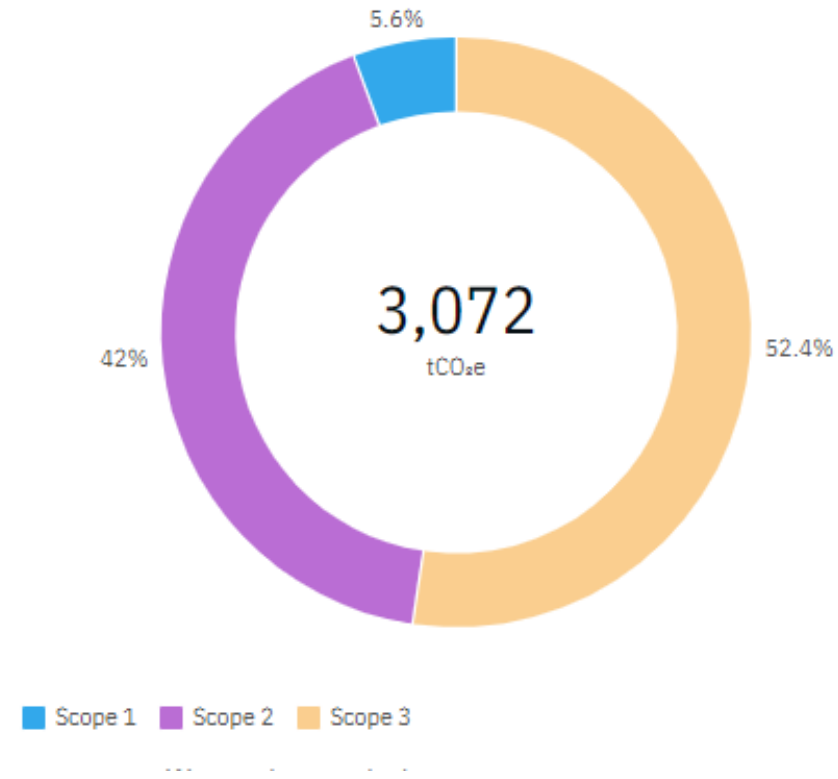
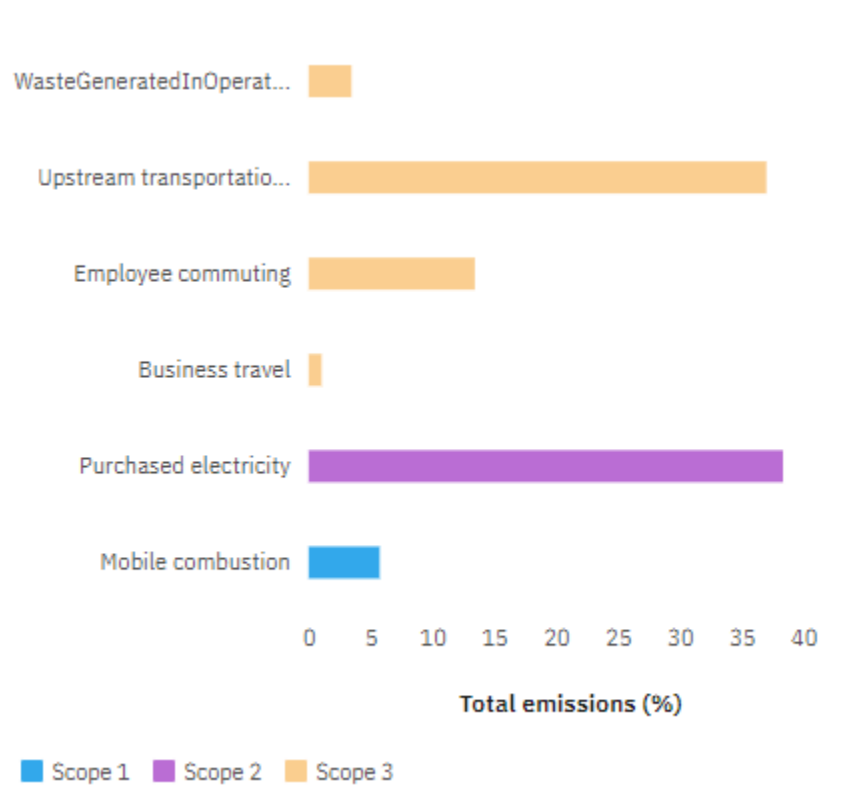
Total organization Emissions

Total Scope 1 & Location-Based Scope 2	1,383	CO ₂ -e (metric tons)
Total Scope 1 & Market-Based Scope 2	1,383	CO ₂ -e (metric tons)

Scope 3 Emissions

Employee Business Travel	35	CO ₂ -e (metric tons)
Employee Commuting	394	CO ₂ -e (metric tons)
Upstream Transportation and Distribution	1,077	CO ₂ -e (metric tons)
Waste	126	CO ₂ -e (metric tons)

Our Emissions by Scope Category:



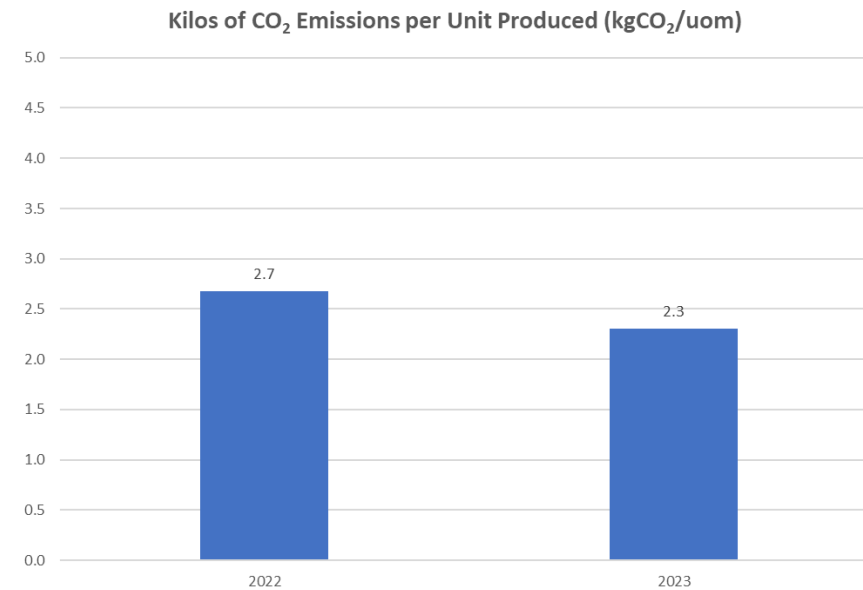
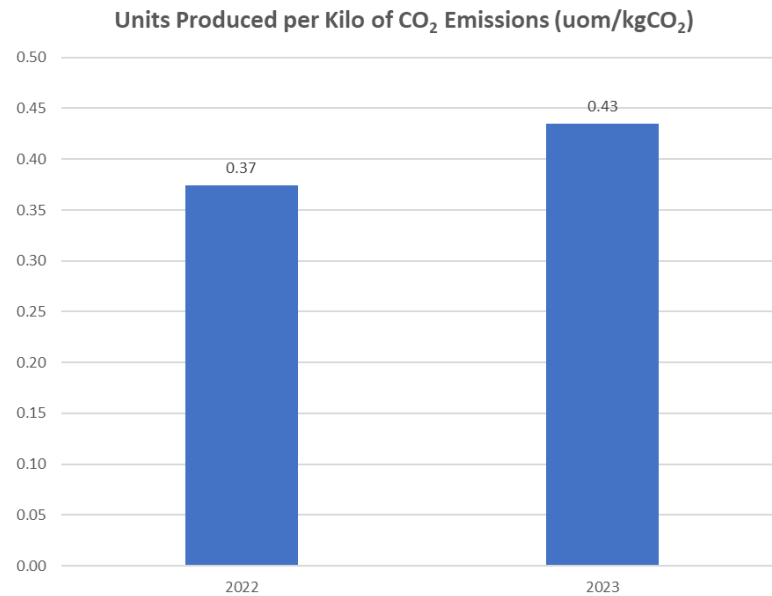
Greenhouse Gas Reduction Goals:

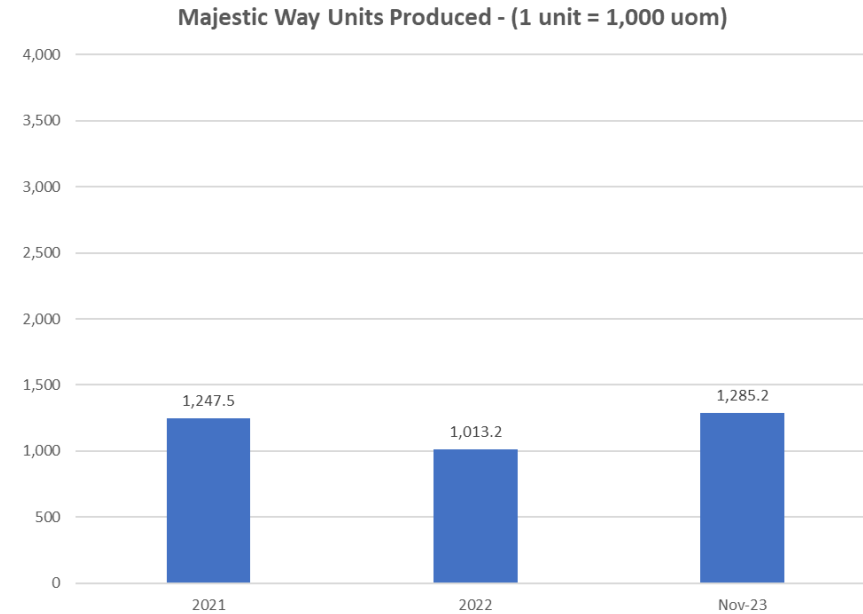
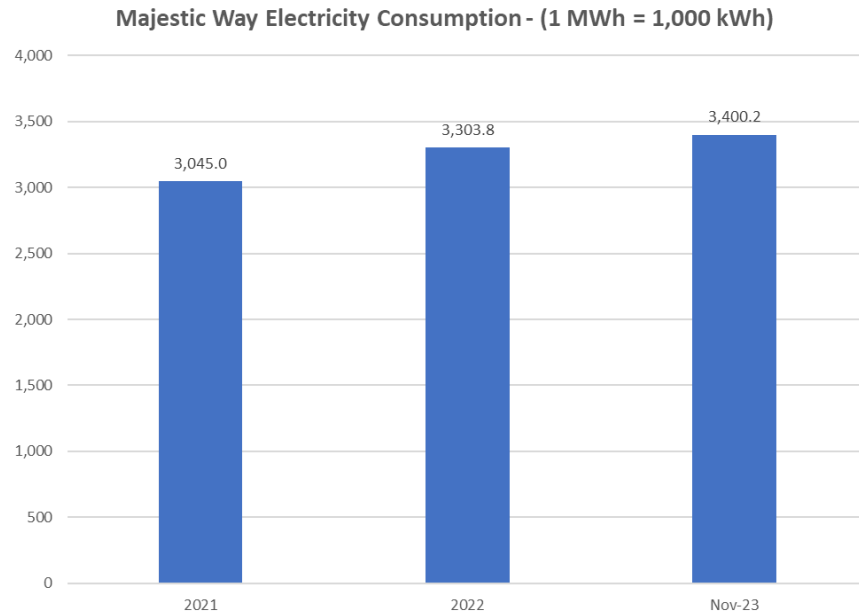
- We have committed to reducing our Scope 1 and Scope 2 carbon emissions by 42% by 2028 from a baseline year of 2022 in accordance with the Paris Protocols and Agreement.
- We have further set an Organizational goal of reducing emissions by 50% by 2030.
- Our GHG emissions are third party verified by Emitwise.
- Our reduction goals are SBTi certified, meaning our set targets are aligned with international, science-based standards for limiting climate change.

Tracking Air Emissions – GHG's

2. CO₂ Separately – ratio to outputs

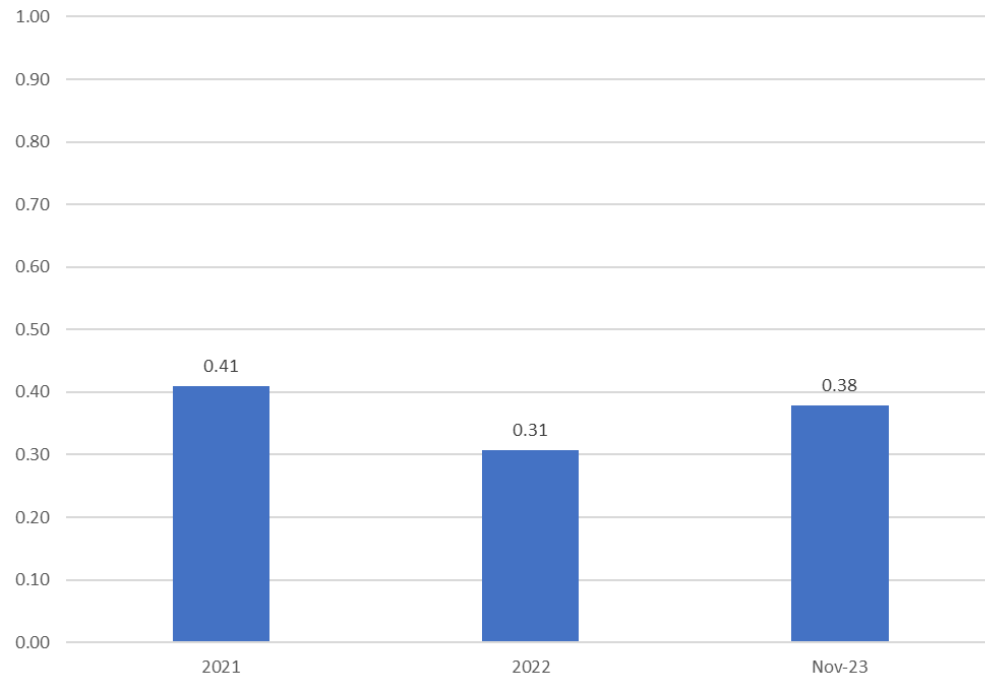
Data Used – 2022 & 2023 M2023 Calculated Baselines, SAGE- ZMFGITMTRK reports



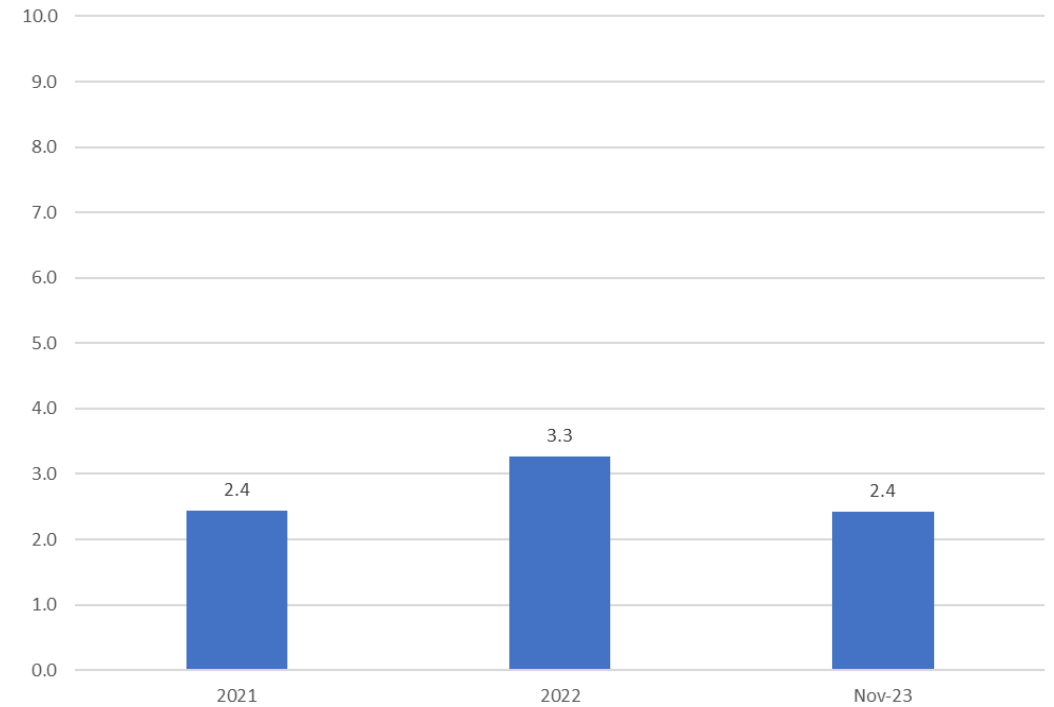


November 2023 – Currently using 0% renewable energy. Renewable Energy has been purchased through our Vendor via Renewable Energy Credits (RECs) and Carbon Offsets. The platforms supporting for our future reduction in energy consumption are M2030 and SBTi.

Majestic Way Units Produced per KWh Consumed (uom/KWh)

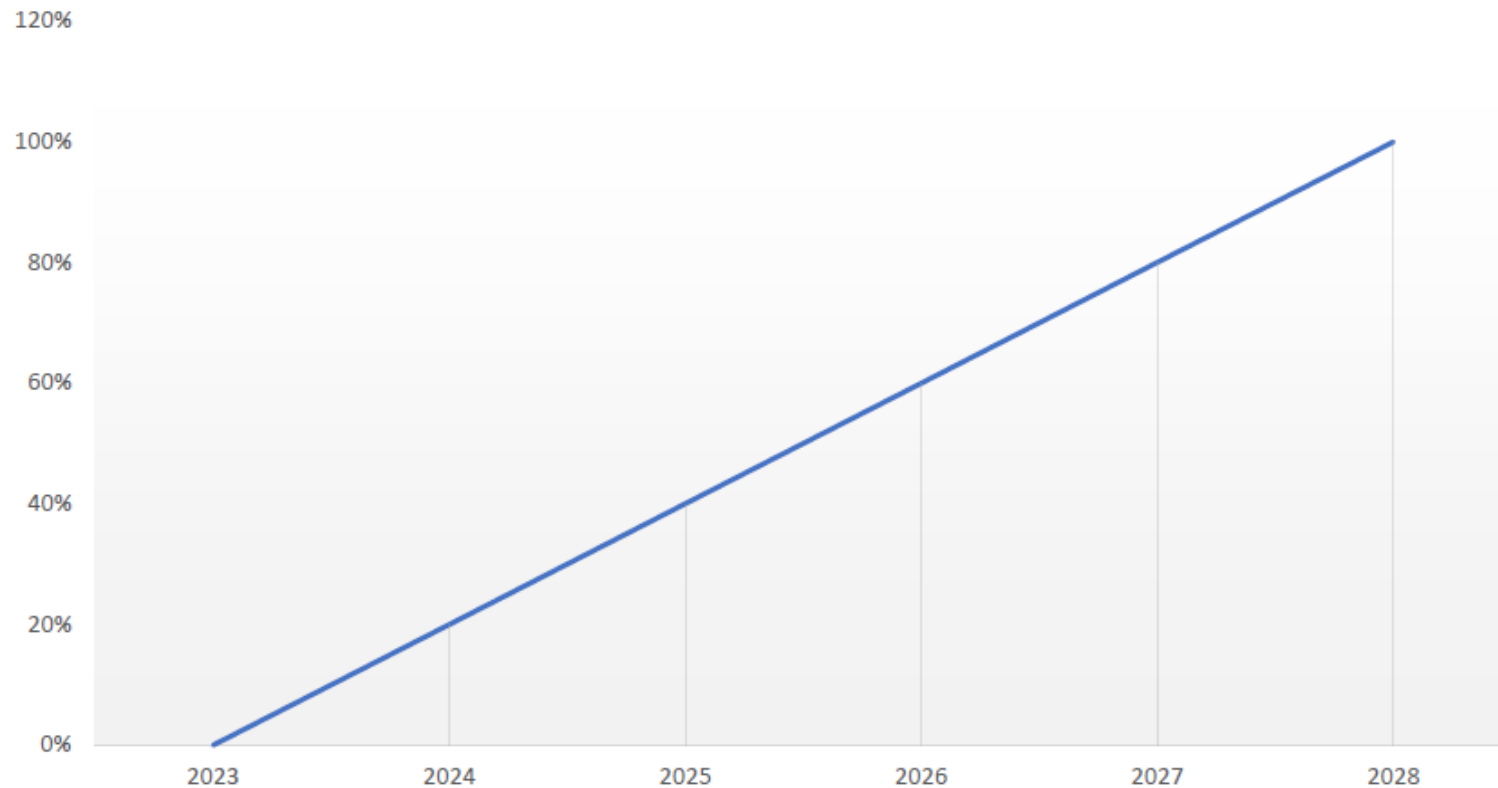


Majestic Way KWh Consumed per Units Produced (KWh/uom)



Reduction of Climate Impact

Projected Percentage of Renewable Energy Used in Bangor Facility



- Energy and Electricity:

- Our facilities will gradually switch to renewable energy throughout the span of 5 years until our all energy is sourced entirely from clean and renewable sources.
- Credits will be integrated by an additional 20% each year significantly reducing our Scope 2 emissions in order for us to achieve our established goals.

Carbon Offsets

- As natural gases can not be generated from a renewable source, BioSpectra has invested in Carbon Offsets.
- Our natural gas consumption is neutralized by our verified emission reduction purchase.
- Our ongoing collaboration with IGS Energy will work to fund green infrastructure and renewable energy projects.

Upstream Scope 3 Emissions Tracking

- Our upstream transportation and distribution is divided into three areas, land, sea, and air transport.
- The waste generation of our Bangor facility is categorized by material, disposal method, and weight. Our recycled materials include glass and HDPE.
- Business travel is divided into three areas, vehicle-miles, rail or bus passenger-miles, and air passenger-miles. The miles traveled for vehicles are tracked and converted into CO2 emissions, measured in kilograms.
- We report on employee commuting by vehicle-miles which are converted to CO2 emissions in kilograms. Personal employee vehicles are the means of transportation for all employees due to the lack of public transportation resources in our geographical location.

Upstream Scope 3 Emissions Reduction Efforts:

- Product End-Of-Life
 - BioSpectra has plans to implement a Product Carbon Footprint analysis for all high demand produced materials.
- Supplier engagement plays a crucial role in understanding our upstream emissions.
 - Our aim is to collect data from our direct suppliers through supplier-specific methods. We intend to collect all comprehensive data from suppliers that contributes to our operations.

Air Pollution and Waste Water Treatment

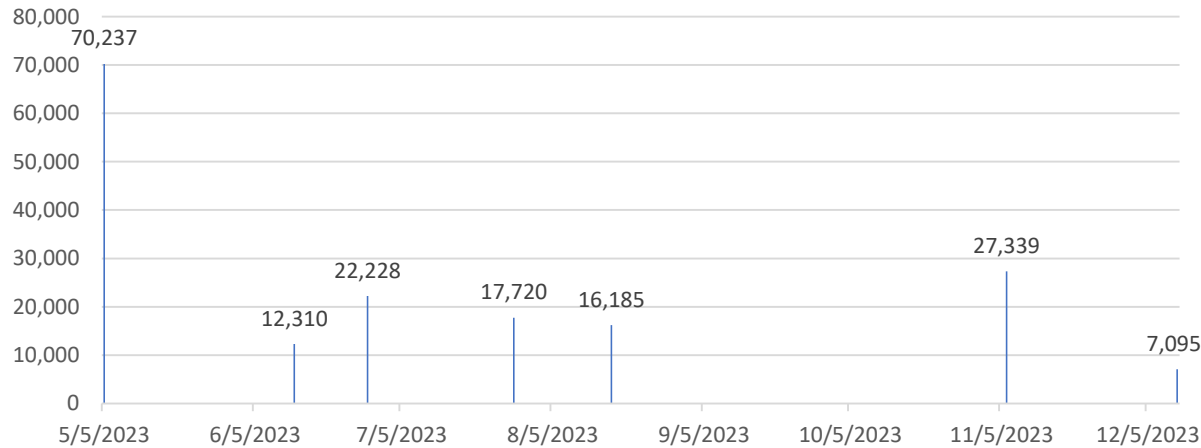
- BioSpectra, Inc. has been approved for determination of requirement for plan approval/operating permit regarding air quality. As enforced by the Commonwealth of Pennsylvania Department of Environmental Protection, PADEP, a plan approval is not required for this source.
 - Within the 2023 reporting year, only 17.287 tons of air pollutants were released from our Bangor facility.
- BioSpectra, Inc. aims to leave no trace of waste in water utilized during our production processes. All water waste produced by the company will adhere to Environmental Protection Agency (EPA) standards and be managed as per state laws and regulations entail.
 - All generated waste water will be neutralized in facilities prior to disposal. Water will be sampled by external laboratories to determine if ingredient levels are below reporting limit standards.

Water Management:

- BioSpectra's Department of Environmental Health and Safety has applied for an industrial stormwater permit regarding the effectiveness of stormwater monitoring and contamination control.
- We have recently switched our standard removal of non-hazardous waste waters. BioSpectra has made the shift from incinerating all non-hazardous waste waters to sending them to a Sewerage Commission for proper disposal.
- Estimated amounts of gray water per year to be sent to disposal services in 250,000 gallons.

BioSpectra's Waste Water Metrics:

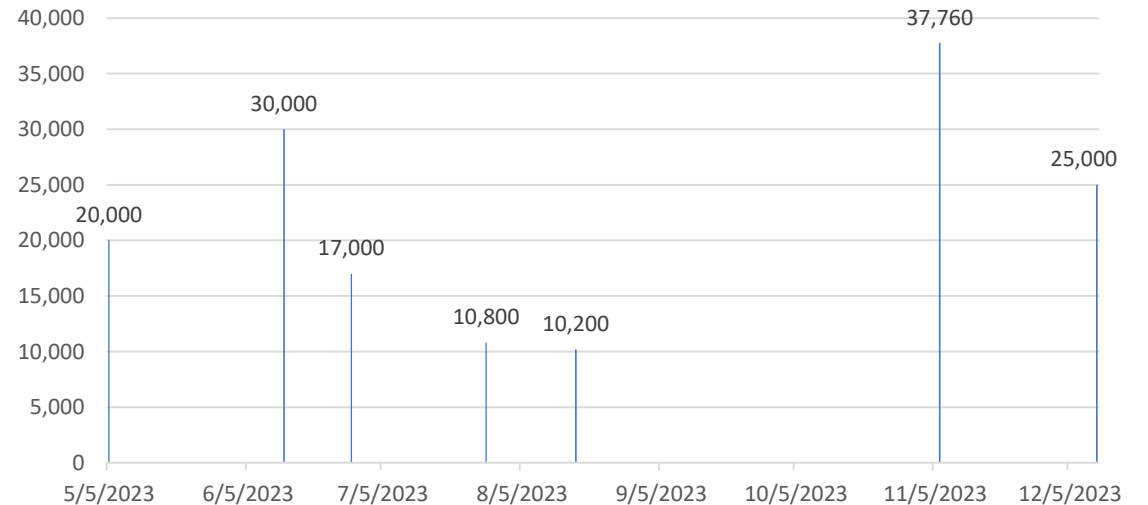
Actual Gallons of Waste Water By Pick Up Date From Environmental Waste Minimization Inc.



Total Weight of Environmental Waste Minimization Inc Waste Water:

173,114 gallons

Actual Gallons of Waste Water by Pick Up Date from Veolia ES Technical Solutions LLC



Total Weight of Veolia ES Technical Solutions LLC Waste Water:

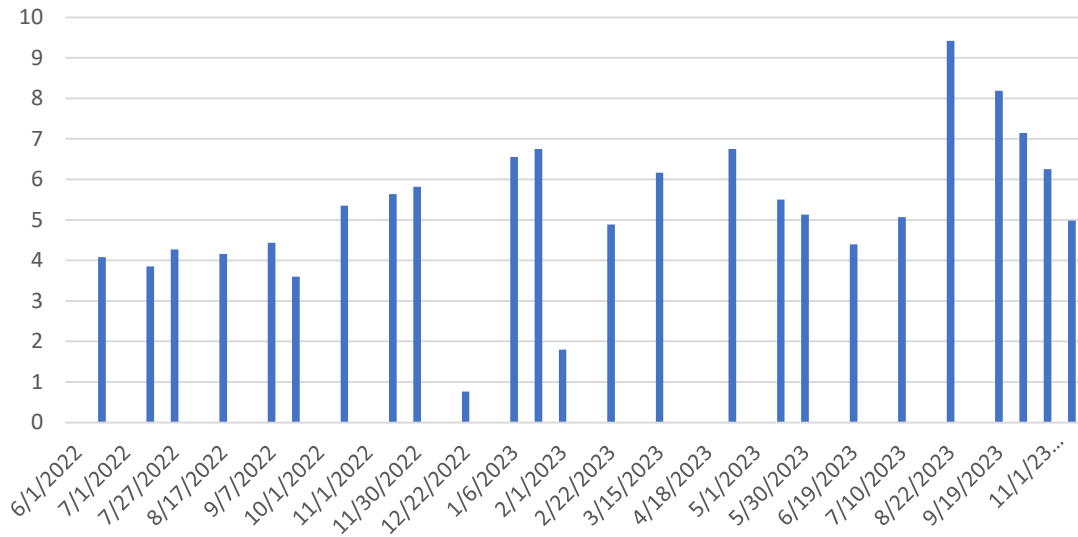
150,760 gallons

Waste Reduction

- BioSpectra, Inc. is an organization committed to environmental sustainability and responsible corporate citizenship. As such, we recognize the environmental impact associated with the end-of-life phase of our Finished Good Products.
 - In efforts to divert waste from the landfill, BioSpectra upholds our return policy for expired, finished good material.
 - BioSpectra has invested in validation programs that allow us to use expired, GMP Finished Product as raw material. While this is expensive, it allows us to significantly reduce chemical waste and eliminate the waste from unsold Finished Goods that have exceeded their stated shelf life.
- Our Supply Chain Division is responsible for monitoring and tracking this part of our sustainability program.

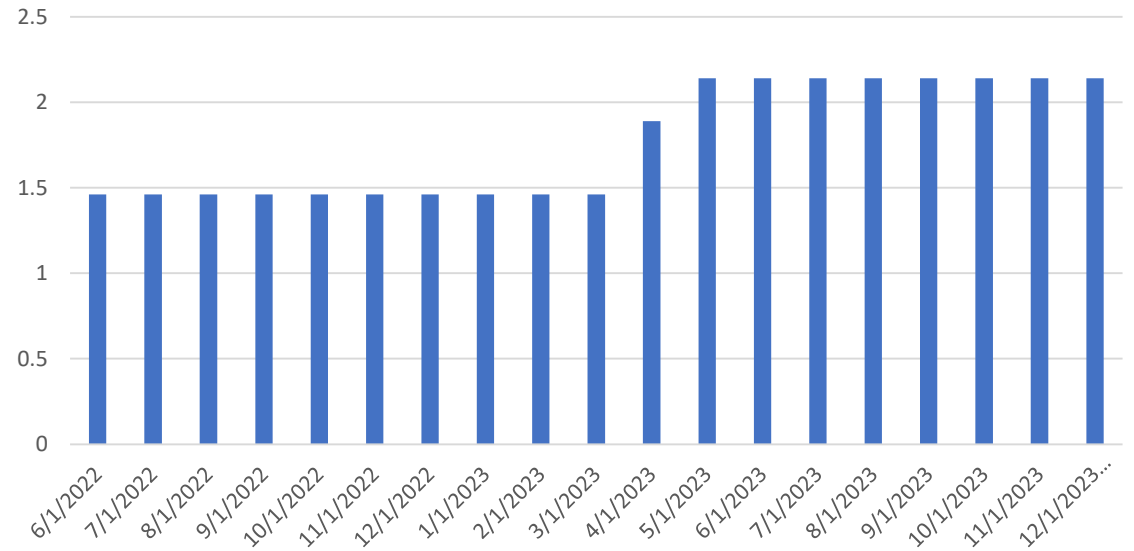
BioSpectra's Waste Metrics: Non-Hazardous Waste

Bangor 42 Yd Disposed Quantity in Tons by Pick Up Date



Total Weight of 42 Yd Disposal: **89.00 short tons**

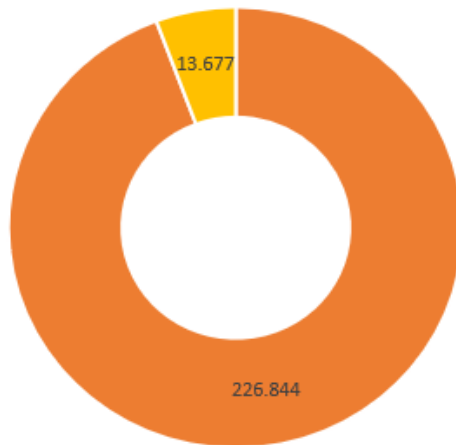
Bangor 20 Yd Disposed Quantity in Tons by Pick Up Date



Total Weight of 20 Yd Disposal: **23.39 short tons**

Total weight of Waste:

Waste Material	Disposal Method	Weight	Unit	CO ₂ e Emissions (kg)
	Landfilled	1,000	metric ton	
Mixed Electronics	Landfilled	653	pounds (lb)	7
Glass	Recycled	327	pounds (lb)	8
HDPE	Recycled	29,827	pounds (lb)	3,132
Mixed MSW municipal solid waste	Landfilled	35,627	pounds (lb)	9,263
Mixed Organics	Landfilled	121,668	pounds (lb)	29,200
Mixed MSW municipal solid waste	Landfilled	163	short ton	84,812



■ Landfilled- 94.3% ■ Recycled- 5.7%

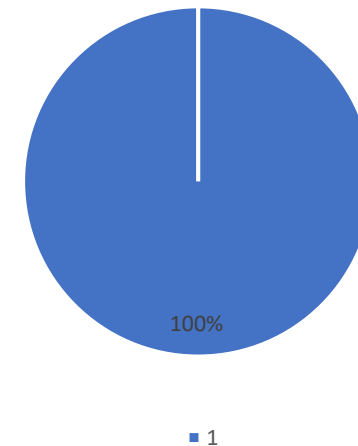
• Our 2025 Goals:

- Focusing on recycling efforts to minimize waste sent to landfills.
- We intend to set reduction targets for our wasted materials.
- We are trying to improve our waste circularity to divert as much product from landfills as possible.

Human Rights and Labor

- BioSpectra Inc., is committed to providing a safe, healthy, and productive work environment for all employees. We believe that good working conditions contribute to the well-being of our employees and are essential for achieving high levels of employee performance and job satisfaction.
- We are committed to implementing and maintaining policies that ensure every employee receives compensation and essential benefits that allows them to meet their essential needs, including housing, food, healthcare, and transportation.
- We recognize the importance of work-life balance and encourage our employees to manage their time effectively. We offer flexible work arrangements where feasible to accommodate personal needs.

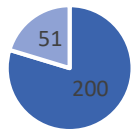
Percentage of Employees Paid a Living Wage in 2024



- Our commitment to a living wage extends far beyond compliance with legal requirements especially in the Commonwealth (State) of Pennsylvania. Our Minimum wage is 200-300% higher than the State Mandate depending on the starting position.

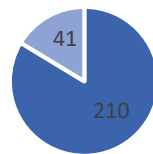
BioSpectra's Working Conditions: Employee Benefits Metrics

Employees Enrolled in Health Insurance



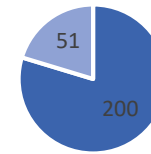
■ Enrolled 80% ■ Unenrolled 20%

Employee Dental Insurance Enrollment



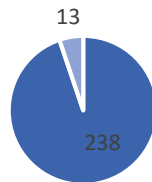
■ Enrolled 84% ■ Unenrolled 16%

Employee Vision Insurance Enrollment



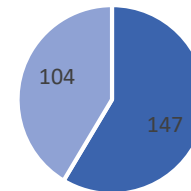
■ Enrolled 80% ■ Unenrolled 20%

Employee Life Insurance Enrollment



■ Enrolled 95% ■ Unenrolled 5%

Employee 401K Enrollment



■ Enrolled 59% ■ Unenrolled 41%

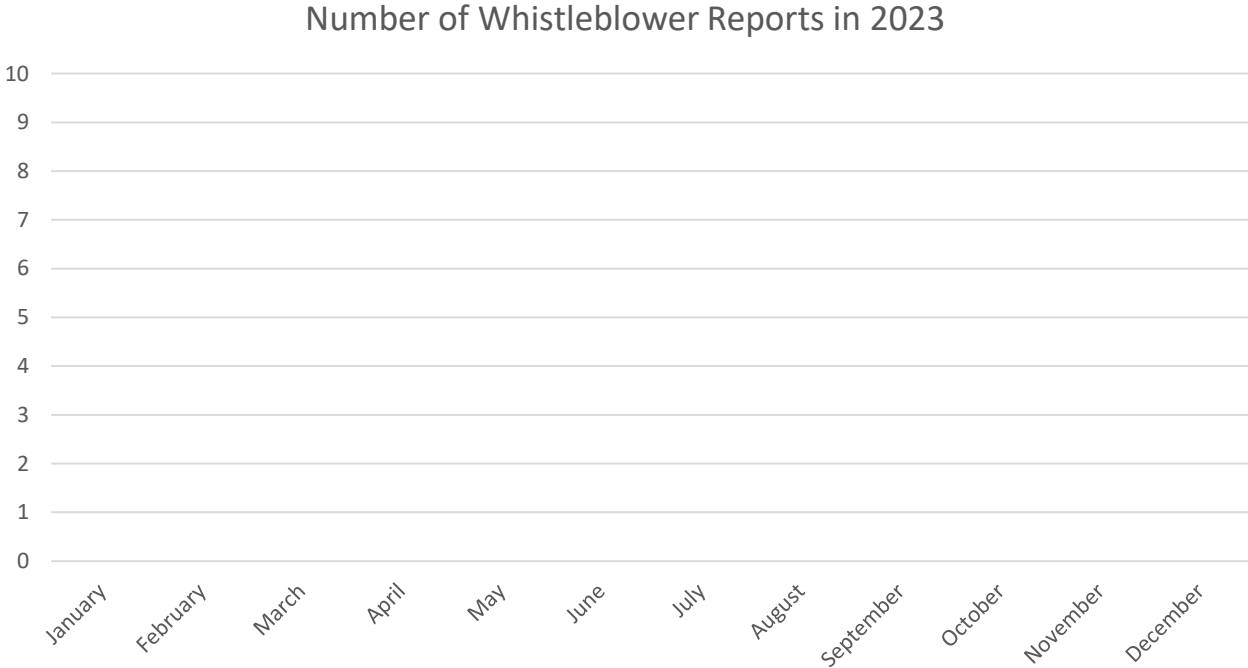
Employee Health and Safety

- We prioritize the safety of our employees above all else. We adhere to all relevant health and safety regulations and provide necessary training to ensure that our workplace is free from hazards.
- We encourage employees to report any incidents, near misses, hazards, or health and safety concerns promptly. We will investigate all incidents to determine root causes and implement corrective actions to prevent recurrence.
- 100% of our employees are trained on appropriate health and safety training to ensure they are aware of hazards and risks associated with their work and understand their responsibilities for maintaining a safe work environment.
 - Each employee is trained an average of 40 hours per year.
- We establish and maintain procedures for responding to emergencies and ensure that employees are trained and prepared to respond effectively. BioSpectra, Inc. provides annual immersive training on emergency situations such as fire prevention and proper procedures regarding facility malfunctions such as chemical spills.

Employee Health and Safety (Cont.)

- BioSpectra utilizes the anonymous hotline, ReportIT, to enforce our Whistleblower policy.
- 100% of employees are trained on health and safety tactics specified to their particular roles in the organization.
- Our Total Recordable Incident rate (TRIR) for 2024 was 4.7. We have cut our rate nearly in half since the 2022 reporting year.
- Our Environmental, Health, and Safety Department (EHS) oversees all operations and incidents to ensure the health, safety, and wellbeing of all our employees.

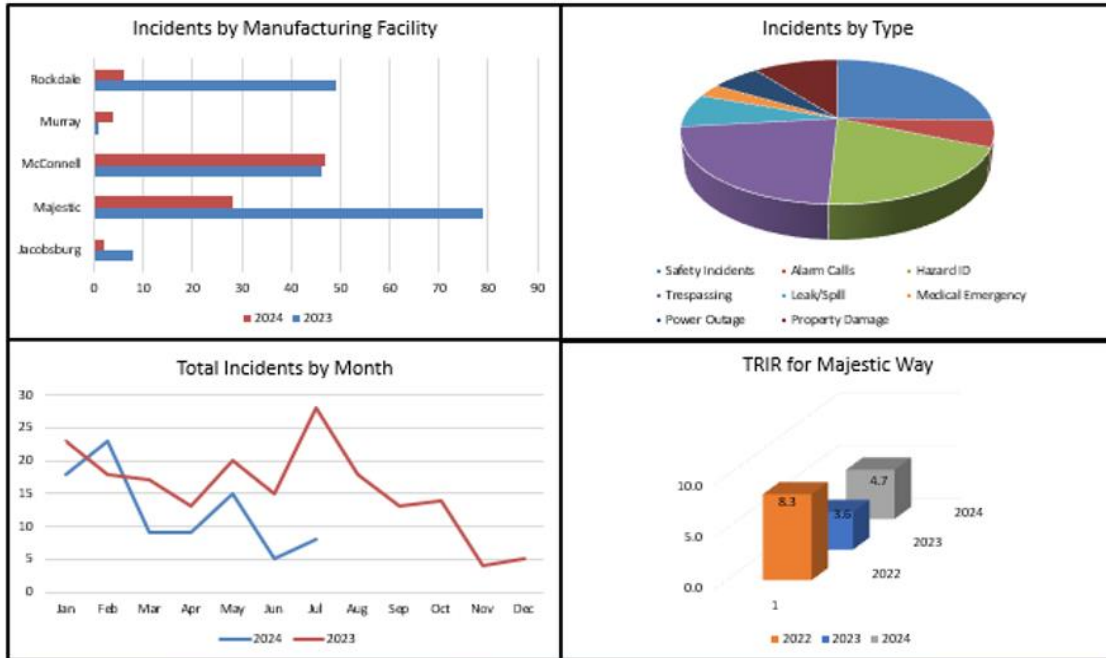
BioSpectra's Whistleblower Report Statistics



Total number of Whistleblower reports for 2023: 0

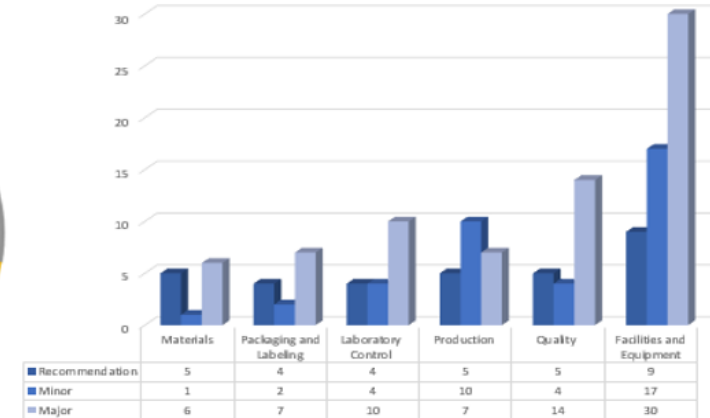
Employee Incidents and Auditing

Incident KPIs



2023 Internal Audits

Count	System	Qty of Non-Compliant Observations	Recommendations	Qty of Minor	Qty of Critical	Quantity of Major	CAPA Open?
1	Facilities and Equipment	47	9	17	0	30	Yes
2	Laboratory Control	14	4	4	0	10	Yes
3	Materials	7	5	1	0	6	Yes
4	Packaging and Labeling	9	4	2	0	7	Yes
5	Production	17	5	10	0	7	Yes
6	Quality	18	5	4	0	14	Yes

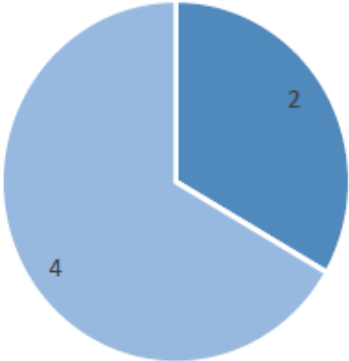


BioSpectra's DEI Initiatives

- We are committed to creating an equitable and inclusive work environment.
 - Roughly half of BioSpectra's leadership team is female-identifying.
 - Pay Equity is a key part of our DEI policy. Performance evaluations are based on performance metrics related to each person's position within the organization that is very well documented by our HR Dept.
 - Annual reviews and surveys are conducted for each position and each person.

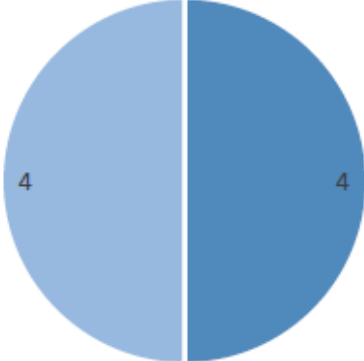
BioSpectra's DEI Statistics: Women in Leadership

Vice Presidents by Gender



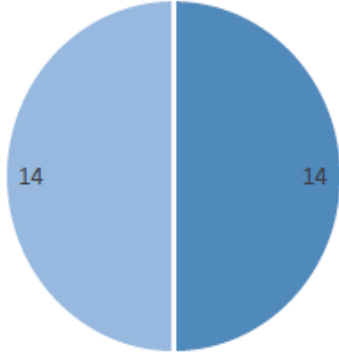
■ Women 33% ■ Men 66%

Directors by Gender



■ Women 50% ■ Men 50%

Managers by Gender

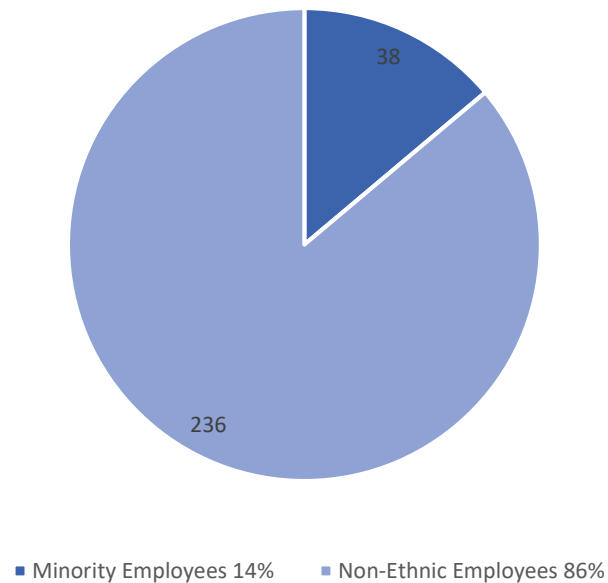


■ Women 50% ■ Men 50%

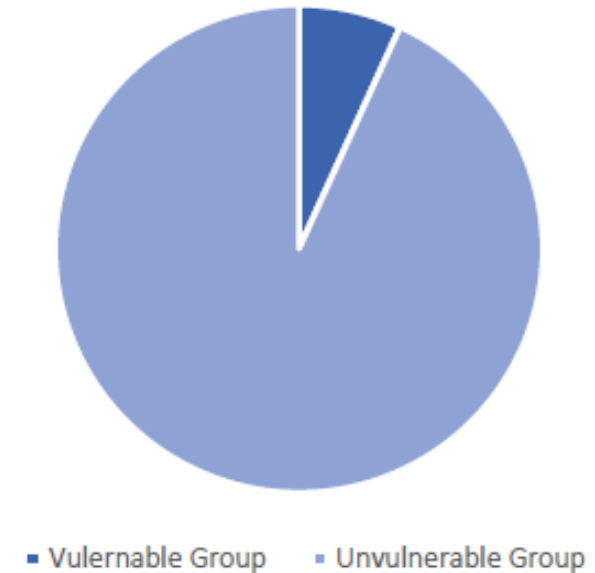
BioSpectra's DEI Statistics: Workplace Diversity

Please note that these ratios are a mirror reflection of the demographics of our geographic location and county in Pennsylvania

Percentage of Employees from Minorities or Vulnerable Groups



Employees at Top Management Level



Stakeholder Engagement

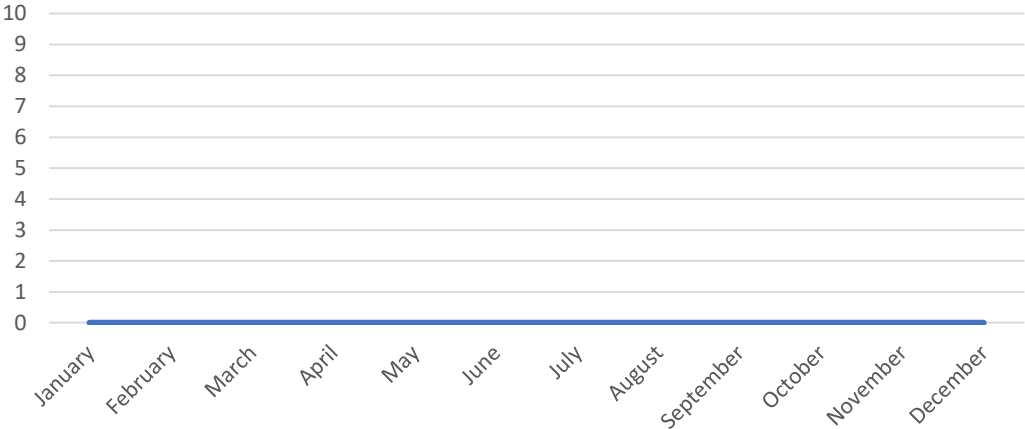
- As we demand from ourselves, we expect our Business partners to act ethically, in accordance with widely accepted international standards of ethical and legal behavior in compliance with our Code of Ethics.
 - 100% of our Suppliers and Distributors received BioSpectra's Code of Ethics.
- Townhall meetings are conducted bi-monthly to help engage all employees and further our communication efforts within the organization.
- Digital signage is also utilized to promote all our programs and policies relative to our employees and customer base.
- Supplier audits are conducted with our internal SOP and ICH protocols.
- Employee performance reviews are completed annually to ensure that all BioSpectra workers are properly prepared and trained for their positions. It is of utmost importance that each member of our team is playing their role to make a sustainable and inclusive workplace.
- Annual Employee Satisfaction surveys will be distributed to each employee to allow employees to anonymously share their opinions and experiences.

Anti-Corruption Policy

- BioSpectra is committed to conducting its business with honesty, integrity, and transparency. As part of this commitment, we adhere strictly to fair business practices and maintain a zero-tolerance policy towards bribery and fraud in any form.
- We conduct our business in compliance with all applicable laws and regulations, promoting healthy competition and fair dealings in the marketplace. Our employees are expected to uphold the highest standards of ethics and integrity in their interactions with customers, suppliers, partners, and colleagues.
- Bribery, whether offering, giving, receiving, or soliciting, is strictly prohibited. We do not tolerate any form of bribery or corrupt practices, including facilitation payments.
- We are committed to preventing fraud in all aspects of our operations. This includes but is not limited to financial fraud, misrepresentation of information, falsification of records, and any deceptive practices.
- The management team is responsible for establishing and maintaining effective controls to prevent bribery and fraud within the organization.

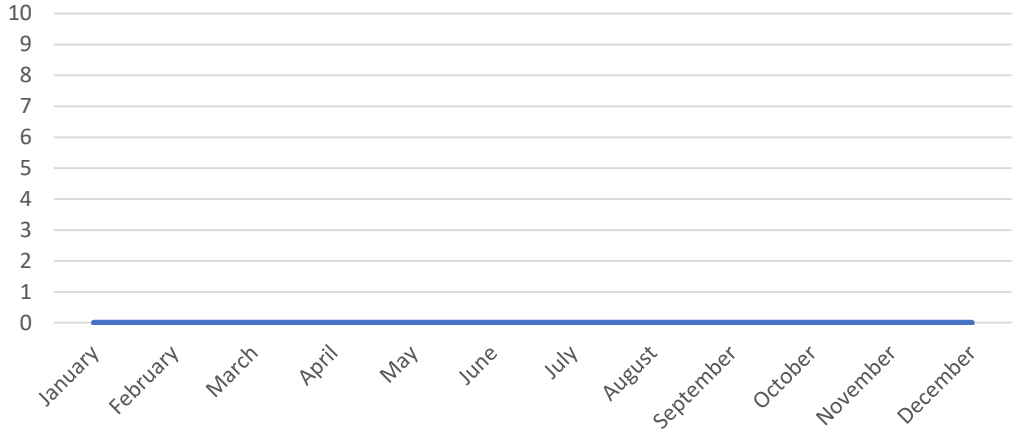
BioSpectra's Anti-Corruption and Security Incidents Statistics

Number of Confirmed Corruption Incidents Per Month in 2023



Total number of confirmed Corruption Incidents in 2023: 0

Confirmed Number of Information Security Incidents in 2023



Total number of confirmed Information Security Incidents in 2023: 0

Workplace Sustainability Initiatives

- Diverting organic waste from landfills:
 - We currently landfill 121,668 pounds of mixed organics, creating 29,200 kg of CO₂e emissions. We are working towards setting internal goals to monitor and reduce this in the coming years.
- Increased focus on recycling materials:
 - Currently only 5.7% of our waste is being recycled. Goals will be set to dramatically increase this percentage over the coming years.
- Utilization of Majestic's Biodiverse Ecosystem:
 - Our FDA registered GMP Production Facility is located on approximately 37 acres of forested land
 - Our goal is to improve forest management (IFM) activities that maintain or increase forest resilience. With proper tracking and analysis, this may be used in the future as a potential forest offset activity.

Strategic Sustainability Initiatives

Organizational	
Business Continuity Plan	Backup/Disaster Recovery (Completed)
Succession Plan	Book of Books (In-progress)
100% Validated and Implemented ERP/MRP	ZAP Dashboards SAGE Implementation (Completed) Dextran ERP Implementation (In-progress) Implementing BOMs/Work Centers/Routings in SAGE (Completed)
Human Development Plan	
Quality	
100% Validated and Implemented QMS	Electronic Training Implementation (In-progress) MasterControl Field Based Solutions (FBS) Forms Implementation (In-progress) MasterControl Forms Buildout in Docs Module (In-progress) Electronic Batch Records (EBR) (In-progress)
100% Validated and Implemented LIMS	LabWare Implementation (In-progress)
Expansion of Data Integrity and Quality Programs	
Buildout of New Laboratory	
Manufacturing	
100% Validated and Implemented EBR'S	Electronic Batch Records (EBR) (In-progress)
30 Days Critical Product Inventory	
100% Qualified Equipment and Validated Systems	
Spray Drying Technology Expansion	Zone M Spray Dryers (In-progress) L10 Spray Dryer (In-progress)

Operations	
100% Sustainable Renewed Buildings	
100% of Workspace will be Compliant to our Four Levels of Classification	Majestic Office Renovation (In-progress)
100% Uniform and Standardized Workspaces, Break Areas and Offices	Majestic Office Renovation (In-progress)
Property Beautification at Every Facility Completed	
Environment	
Dust Collection/Cyclone Upgrade Program	
Commercial Recycling Program Implemented	
Solid Waste Reduction Program Implemented	
Liquid Waste Reduction Program Implemented	
Sustainability	
Vertically Integrated HCl Gas/Liquid Supply	HCl Gas Generation System (In-progress)
100% Energy-Efficient HVAC Systems	Majestic Office Renovation (In-progress)
Unified and Expandable Utilities at Each Site	Majestic Utility Loop System – Phase 1 & 2 (In-progress)
Inter-Site Supply Chain Management	Supply Chain Center – Phase 1 (Completed)

This Strategic Plan will be based on our expectations and goals for our **thirtieth anniversary** and **define primary measurables for the 32-month period starting February 1, 2023 and ending September 30, 2025.**

Strategic Sustainability Initiatives

Quality Excellence	<ul style="list-style-type: none"> • Maintaining an unblemished Record with the FDA
Manufacturing Excellence	<ul style="list-style-type: none"> • Commitment to safety first • Safe Systems • Reduction in Safety Incidents
Environmental Excellence	<ul style="list-style-type: none"> • Lowering Energy Consumption per kilo • Carbon Reduction • Reduction in emissions • Increased in renewable energy use • Water Purification Systems
Sustainability Excellence	<ul style="list-style-type: none"> • Sustainable Procurement (alternative Sourcing) • Supply Chain Security (New GMP Warehouses) • Financial Stability & Cost Reductions OOS Product • Supply Base Auditing – Quality practices; Environmental Practices; and Social/HR Practices
Corporate Commitment to Social Responsibility	<ul style="list-style-type: none"> • Community Outreach programs

Environmental, Social & Governance (ESG) Commitments

Environmental Commitments

- Biodiversity Policy Statement
- Chemicals and Waste Policy Statement
- Product Carbon Footprint Policy Statement
- Product End-of-Life Policy Statement

Ethics Commitments

- Conflict of Interest Policy Statement
- Fair Business Practices Policy Statement

Sustainable Procurement Commitments

- Sustainable Procurement Policy Statement

Labor & Human Rights Commitments

- Employee Health and Safety Policy Statement
- Child Labor, Forced Labor and Human Trafficking Policy Statement
- Risk Exposure to Minors
- Diversity, Equity and Inclusion Policy Statement
- Whistleblower Policy Statement
- Anti-Discrimination Policy Statement
- Risk Assessment and Safe Job (RSJ) and Ergonomics at Work Policy Statement
- Working Conditions Policy Statement
- Living Wage Policy Statement
- Evaluation for Employee Job Performance Policy Statement

CyberVadis – Cybersecurity Assessment

- CyberVadis is a platform that was developed by EcoVadis in 2018.
 - This platform is a third-party verification platform used to assess a company's cybersecurity risks across the supply chain.
- BioSpectra, Inc. completed our first CyberVadis assessment in June 2024 and were awarded a Bronze medal.

cyber^vvadis Certificate of Cybersecurity Assessment



certifies that

BioSpectra, Inc

received a cybersecurity
assessment, scoring **Developed**
in their overall score



Assessed in: 19 Jun 2024
Valid until: 18 Jun 2025