



Innovations for Success

# 2025 SUSTAINABILITY REPORT



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# MESSAGE FROM THE CEO, BRIAN TIDWELL

I am both proud and honored to present Polyvel, Inc.'s 2025 Sustainability Report. This report highlights our commitment to environmental stewardship and shows the progress that our dedicated team has made towards our stated goals.

The plastics industry faces unique challenges in the global sustainable landscape. Yet, it also holds immense potential to drive positive change through smarter design, circular economy principles and collaboration across the supply chain.

As an organization that has been at the forefront of plastics recycling for over 40 years, we recognize that the work we are doing today will shape tomorrow, and our entire team is dedicated to being a recognized leader and making a positive impact on the world of tomorrow.

Over the past year we have made meaningful strides to identify areas of improvement and opportunities to reduce our environmental footprint. From waste management, water reduction, and improving energy efficiencies to renewable sourced materials in our products and advancing recycling technologies, our team has worked tirelessly to align our business with the needs of the planet and our communities.

Sustainability is an ongoing effort of meeting today's needs without compromising the needs of future generations. We remain deeply committed to implementing continuous improvement and partnering with stakeholders who share our vision for a more sustainable world.

Thank you for joining us on this journey.



A handwritten signature in black ink that reads "Brian Tidwell". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

**Brian Tidwell**





## POLYVEL OVERVIEW

Founded in New Jersey in 1982, Polyvel is a producer of specialty additive masterbatches and custom compounds that support a wide range of polymer industries. We work with plastics producers and converters to improve performance, solve technical challenges, and create tailored solutions. In recent years, a growing share of our work has focused on solutions that extend the useful life of plastics, improve their recyclability, and reduce overall environmental impact.

### Markets and processes we serve:

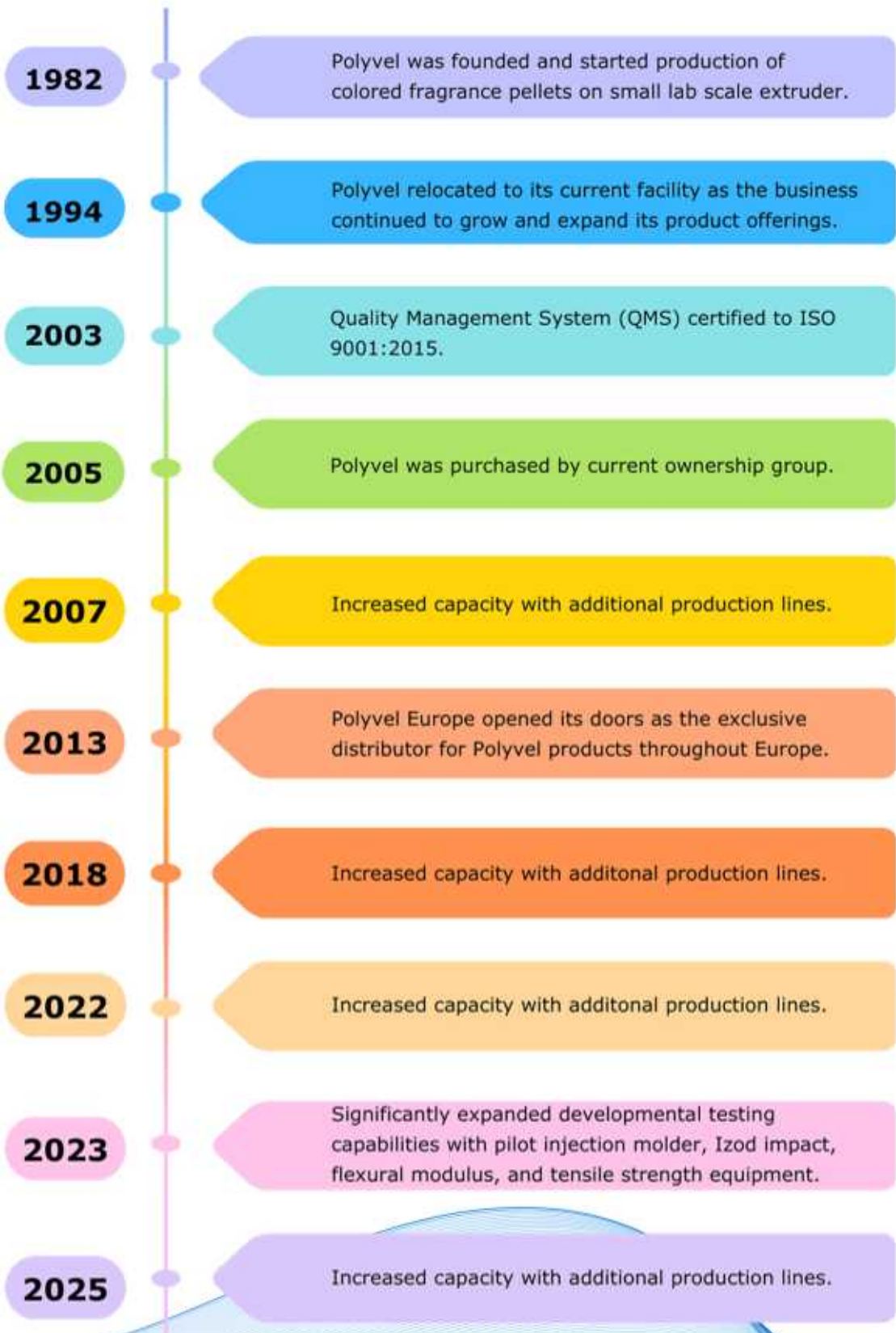
- Packaging
- Medical / Hygiene
- Consumer goods
- Automotive
- Recycling
- Nonwovens
- Injection molding & blow molding
- Film and sheet



Polyvel's reach extends well beyond our headquarters in the United States. Through direct exports and our European operations, our products are used by customers around the world. This global presence brings opportunity, but it also carries responsibility. We recognize that the materials we create have an impact that crosses borders. That is why we work to ensure our products and processes support not only the performance needs of our customers, but also the environmental goals shared across industries and regions.

This inaugural Sustainability Report reflects our belief that continuous improvement must also mean a better environmental footprint. We see sustainability not as a separate initiative, but as an integral part of how we operate and how we plan for the future.

# POLYVEL TIMELINE



# THE POLYVEL WAY

At Polyvel, we believe our culture is the number one factor that determines our ability to succeed. Polyvel's vision includes a continuously evolving culture founded upon 5 Core Values: Safety, Trust, Innovation, Continuous Improvement, and Winning as a Team. We foster these values by emphasizing 33 Fundamentals that we believe every team member should embrace.

- 1 Safety:** We value safety; nothing is more important than the safety of our team and guests who visit a Polyvel facility. Through personal accountability, we work to continuously find ways to make our operation the safest possible workplace.
- 2 Innovation:** We strive to be a leader through innovative solutions that help our customers achieve their goals. When it comes to our customers, when they speak, we listen.
- 3 Win as a Team:** We emphasize collaboration and the importance of teamwork-leading with open communication, sharing of information, valuing diverse perspectives and ideas, and a recognition that the team comes before the individual.
- 4 Instill Trust:** We expect everyone to act with the highest levels of honesty and integrity, to follow through on their commitments and take responsibility for their actions.
- 5 Continuous Improvement:** We embrace continuous improvement as individuals and in every aspect of our business by challenging the status quo and recognizing that we must always be moving forward.

We strive to be one of the most admired places to work. To that end, we know we must be vigilant to maintain our ever-evolving team of dedicated professionals.

Our core values of Safety, Innovation, Continuous Improvement, Instill Trust, and Win as a Team are the pillars of our High-Performance Culture. If this is the type of environment where you believe you can grow and thrive, whether you are a skilled plant operator, skilled in an administrative or commercial role, or a technological innovator we'd love to hear from you.



# COMMITMENT TO SAFETY

At Polyvel, safety isn't just a policy or program, it's our commitment. We put our people first through regular training, strict protocols, and a commitment to keeping our workplace a safe environment. Every day, our morning meeting ends with the words "have a safe day, everyone" because a strong safety culture starts with intention, and it starts with us.



## TRAINING & AWARENESS

Through monthly sit-down training sessions, weekly toolbox talks, and daily safety reviews, we ensure our team is well equipped and informed to work safely and effectively.



## PARTICIPATION

Our monthly safety committee meetings are always open to all employees.



## CONTINUOUS IMPROVEMENT

Through regular review of our safety practices, plant-wide inspections, and employee feedback, we strive to look for new ways to improve.



## LEADERSHIP ENGAGEMENT

Our leadership team sets the standard for safety, leads by example, and actively supports a safe working environment.



## OPEN COMMUNICATION

We take feedback seriously and always encourage input and suggestions on how to improve our safety measures.

# SUSTAINABILITY VISION & CORE PRINCIPLES

Our vision is to develop, produce, and provide our customers with innovative products that create value for society, the environment, and the industry. Polyvel is committed to a high-performance culture of continuous improvement in our operations by implementing strategies to encourage process optimization, energy reduction, water conservation, and waste minimization.

## RESPONSIBLE MANUFACTURING

We prioritize sustainable practices by reducing water and energy consumption, minimizing waste, and optimizing resource management. Unavoidable waste is responsibly reused, recycled, or safely disposed of to minimize environmental impact. By enhancing process efficiency, adopting renewable energy, and managing waste responsibly, we strive to reduce our carbon footprint.

## FOCUS ON CIRCULARITY

We actively collaborate with our customers, suppliers, and industry partners to close the loop on plastic waste and extend the lifecycle of plastic products.

## INNOVATION

We embrace cutting-edge technology to enhance our product development, manufacturing processes, and customer solutions. By investing in research and development, we stay at the forefront of the plastics industry, driving innovation that benefits both the company and our customers.

## CUSTOMER FOCUS

We actively listen to the needs of our markets and provide customized, high-quality solutions that help them succeed in a competitive marketplace. We build long-term partnerships based on trust, responsiveness, and mutual growth.

## ETHICAL & SOCIAL RESPONSIBILITY

We are committed to being responsible corporate citizens by contributing positively to the communities in which we operate. We support local initiatives, invest in education, and encourage sustainable practices to create a positive social impact. We conduct our business with integrity, honesty, and transparency. Ethical decision-making and responsible corporate citizenship guide our actions as we build lasting relationships with our stakeholders, including customers, suppliers, employees, and the communities we serve.

# SUSTAINABILITY STEERING COMMITTEE/TASK FORCES

The Sustainability Steering Committee serves as the primary oversight group responsible for establishing, monitoring, and directing the company's overall sustainability strategy. It is composed of key stakeholders from various departments to ensure broad and balanced representation. Members include individuals from production and operations, sustainability, technical services, sales, and senior management, providing insights from all areas of the business. This cross-functional team leverages its diverse expertise to advance our long-term objectives. The Steering Committee oversees three task forces:

## WASTE MANAGEMENT

*Minimize the creation of waste, and find responsible end-of-life solutions for the waste that is generated*

- Minimize yield loss through process optimization
- Enhance segregation and characterization of waste streams
- Identify appropriate channels for responsible waste diversion
- Develop procedures for reworking/repurposing/reusing materials internally
- Increase recycling outlets

## UTILITIES

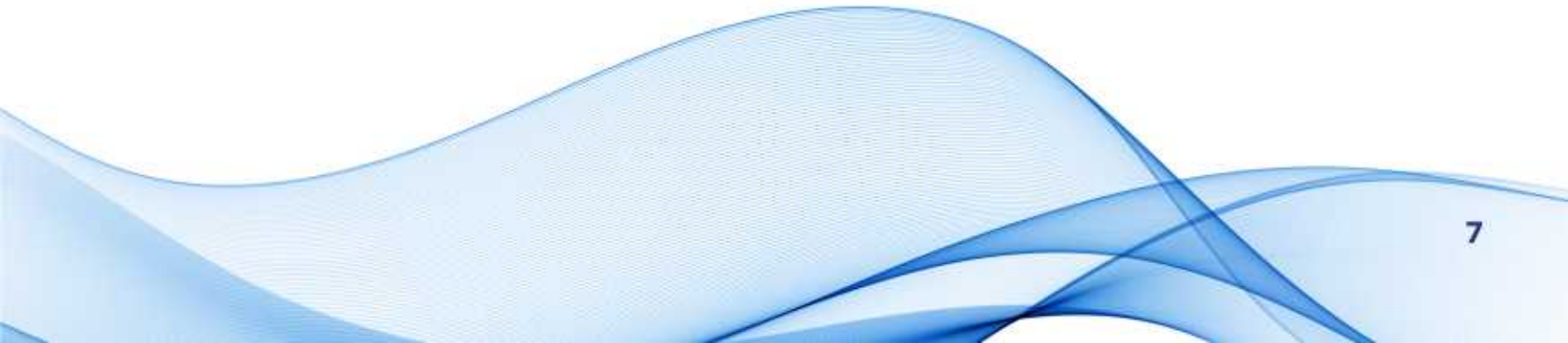
*Minimize the amount of resources required to operate while meeting customers' needs and expectations*

- Investigate the largest unit operation energy consumers in production
- Identify opportunities for improvement regarding water and energy consumption
- Participate in a strategic energy management program to implement energy saving measures
- Invest in solar energy to power operations
- Redesign existing systems to be more energy efficient

## PRODUCT DEVELOPMENT

*Offer products that are supportive of a circular economy from product design to end-of-life*

- Launched the following products:
  - Non-PFAS process aids
  - Recycling stabilizers
  - Post Consumer Resin (PCR) carriers for masterbatches
- Created new partnerships and co-developmental efforts



## PRODUCT SHOWCASE

### ***PolyFlow*** | MELT FLOW ENHANCERS

Our broad range of pelletized and granular peroxide masterbatches are used for polypropylene reprocessing, injection molding, fiber processing, and polyethylene or EVA crosslinking. Peroxide masterbatches are highly effective in increasing polypropylene melt flow rate for both extrusion and injection molding. PolyFlow adds value to recycled material by allowing polymers to meet more plastic application demands and specifications.

### ***PureBlend*** | NON-PFAS PROCESS AIDS

Processing aids optimize the manufacturing process. Polyvel's Non-PFAS Process Aids are free of the potential hazards of fluoro-based process aids. Advantages of processing aids include increased throughput, eliminated melt fracture, improved processability, prevention of die buildup, and lower energy requirements.

### ***StabilPure*** | POLYOLEFIN STABILIZERS

Our StabilPure product line consists of polyolefin stabilizers in customized blends of antioxidants, lubricants, and additional polymer additive packages formulated to stabilize polyolefin and recycled resins.

### ***rBOOST*** | PET CHAIN EXTENDER

rBOOST was developed to increase the intrinsic viscosity (I.V.) of rPET and rPETG allowing for inclusion of a higher rate of recycled material and maintaining the I.V. of virgin PET and PETG after numerous passes. Polyvel's rBOOST PET Chain Extender maintains clarity while imparting higher impact and melt strength for better processability.

**PCR & PIR BASED CUSTOM MASTERBATCH** is available upon request. Helping Brand Owners and processors alike, specialty additive masterbatches utilizing recycled polymer carriers assist in reaching recycled content goals in a wide range of plastic products and applications.

### **BIO-RESINS**

Our line of PLA masterbatches is perfectly positioned to address the increasing drive for Circularity. Regardless of the required function, our Slips, Nucleators, Plasticizers, Clarifiers, Impact Modifiers and Melt Strength Enhancers will meet the challenge.

Antioxidants, Ultraviolet Stabilizers, Nucleating Agents, Odor Managers, Desiccants are all available with Polyvel's industry-leading lead times. If you don't see it but need it, please ask.

***In addition to these products please inquire about our growing line of Custom Compounds designed for Circularity.***

# SUSTAINABILITY AT POLYVEL, INC.

Within the following markets our masterbatches enable:

<p><b>RECYCLING</b></p> 	<ul style="list-style-type: none"> <li>• Reduction of demand for virgin fossil fuel-based plastics</li> <li>• Diversion of plastic waste from landfills and oceans</li> <li>• Lower energy and water consumption in processing by replacing virgin</li> <li>• Upcycling to new applications</li> </ul>
<p><b>AUTOMOTIVE &amp; TRANSPORTATION</b></p> 	<ul style="list-style-type: none"> <li>• Reduction of vehicle weight through material substitution.</li> <li>• Recycled or bio-based plastics to be used</li> <li>• Improved design for disassembly for better recycling</li> </ul>
<p><b>PACKAGING</b></p> 	<ul style="list-style-type: none"> <li>• Reusable, refillable, recyclable, or compostable packaging models</li> <li>• Lightweight packaging for reduction of transportation emissions</li> <li>• Extension of product and packaging shelf life</li> </ul>
<p><b>INDUSTRIAL &amp; DURABLE GOODS</b></p> 	<ul style="list-style-type: none"> <li>• Long lasting materials, reducing maintenance</li> <li>• Improvements in insulation and energy efficiency for buildings</li> <li>• Material substitution, using plastic in applications where traditional materials have limitations</li> </ul>
<p><b>BIOPLASTICS / BIO-BASED</b></p> 	<ul style="list-style-type: none"> <li>• Products derived from renewable sources</li> <li>• A lower carbon footprint as opposed to petroleum-based plastics</li> <li>• Products that are biodegradable or compostable under the proper conditions</li> </ul>
<p><b>MEDICAL &amp; HEALTHCARE</b></p> 	<ul style="list-style-type: none"> <li>• Safe, sterile, and cost-effective healthcare</li> <li>• Minimization of disease spread</li> <li>• Enhanced patient comfort</li> <li>• Increased hygiene</li> </ul>

# SUSTAINABLE PRODUCT OFFERINGS

## Advancing Sustainability with Innovative Additive Masterbatch and Custom Compound Solutions

At Polyvel, we are committed to helping our customers meet their sustainability goals through targeted, high-performance additive masterbatch and custom compound technologies. Our portfolio of products is designed to support circularity, reduce environmental impact, and improve the performance of sustainable materials. Our offerings are organized into seven key categories: supports recycling, bio-content, energy reducers, biopolymers, shelf-life extenders, recycled polymer carriers, and safer material substitution.

KEY			Biopolymers
	Supports Recycling		Shelf-life Extenders
	Bio-content		Recycled Polymer Carriers
	Energy Reducers		Safer Material Substitution

Product	Sustainable Feature						
Antifogs							
Chain Extenders							
Custom Stabilizers							
Foam Stabilizers							
Lubricants							
Nucleators							
Odor Managers							
PLA Masterbatches							
PolyFlow melt flow modification							
SoftBatch fabric softness							
StabilPure advanced stabilizers for recycling							
PureBlend NON-PFAS Process Aids							

# 2025 INITIATIVES

This year marked an important baselining phase for our sustainability efforts. Over the past year, we have focused on establishing clear metrics, gathering reliable data, and setting a strong foundation for future performance tracking. The steps we have taken to enhance our corporate sustainability strategy over the last year have enabled us to identify key opportunities for improvement, set meaningful goals, and demonstrate measurable progress year over year.

At Polyvel, we are committed to fostering a sustainable future by responsibly managing our environmental impact. We are committed to reducing our energy consumption, reducing our water consumption, limiting greenhouse gas emissions, and minimizing / properly managing our waste while ensuring the highest standards of product quality and operational efficiency. Through continuous improvement, innovative practices, and collaboration, we strive to achieve our sustainability goals to meet the needs of the present without compromising the needs of future generations.



**WASTE**



**WATER**



**ENERGY**



**GREENHOUSE GAS EMISSIONS**

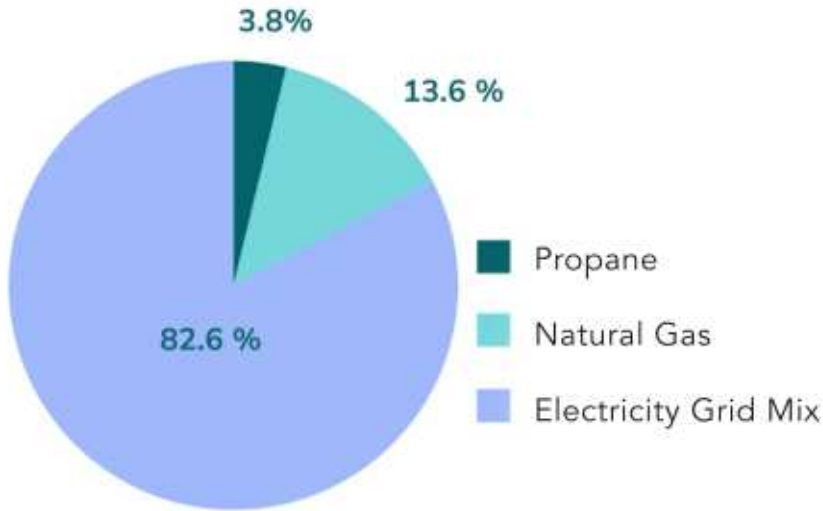


**PRODUCT DEVELOPMENT**



# 2025 TOTAL ENERGY CONSUMPTION MIX

## TOTAL ENERGY CONSUMPTION WITHIN THE ORGANIZATION 2025 ENERGY CONSUMPTION



In 2025, Polyvel’s utility task force prioritized baselining our company’s overall energy consumption and analyzed the different sources that supply our energy mix.

In 2026, the utility task force will set an energy efficiency goal, develop key performance indicators, and measure improvements by comparing the data with the 2025 baseline.

### ELECTRICITY - Onsite Solar Energy Installed - Reducing Onsite Fossil Fuel Usage

In 2025, a solar power system was commissioned onsite at Polyvel’s Hammonton, NJ location. This solar power system is offsetting 1.35 million kWh of electricity per year. By harnessing abundant, renewable solar energy, the system provides a reliable source of clean power without depleting natural resources. This initiative significantly reduces carbon emissions and supports a healthier, more sustainable environment.

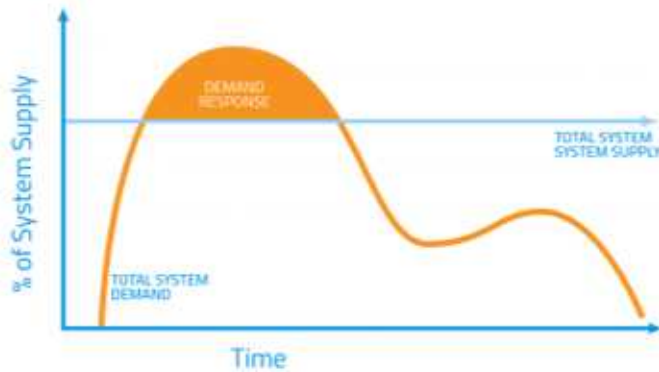


<b>Commissioned</b>	Nov 2025
<b>System Size</b>	999.945 kW
<b>Expected First Year Energy Generation</b>	1.35 million kWh

# ENERGY PROGRAMS

## STRATEGIC ENERGY MANAGEMENT PROGRAM

The Strategic Energy Management program, provided by Atlantic City Electric, offers a holistic and systematic approach to continuous energy improvement. Throughout this educational program, Polyvel worked with an energy coach to discover, assess, and improve the company's energy management practices. With help from the energy coach, Polyvel's utility task force team performed a thorough building energy assessment and developed an action plan for tackling identified improvements which will be measured in 2026.



## DEMAND RESPONSE PROGRAM

Polyvel is committed to reducing energy consumption during peak periods of generation through participation in a Demand Response Program. Demand response is a solution where energy providers and users work together during times of critical stress, high electricity demand, or peak load times on the electric power grid, helping maintain grid reliability and avoid blackouts. Reduction can be achieved through various means, such as

adjusting HVAC settings, turning off non-essential equipment, or shifting energy-intensive processes to off-peak times.

## WATER CONSUMPTION

Our commitment to optimizing water consumption in the plastic manufacturing process is rooted in our dedication to environmental responsibility and sustainable operations. In 2025, we developed a thorough baseline of the quantity of water our operations consume.

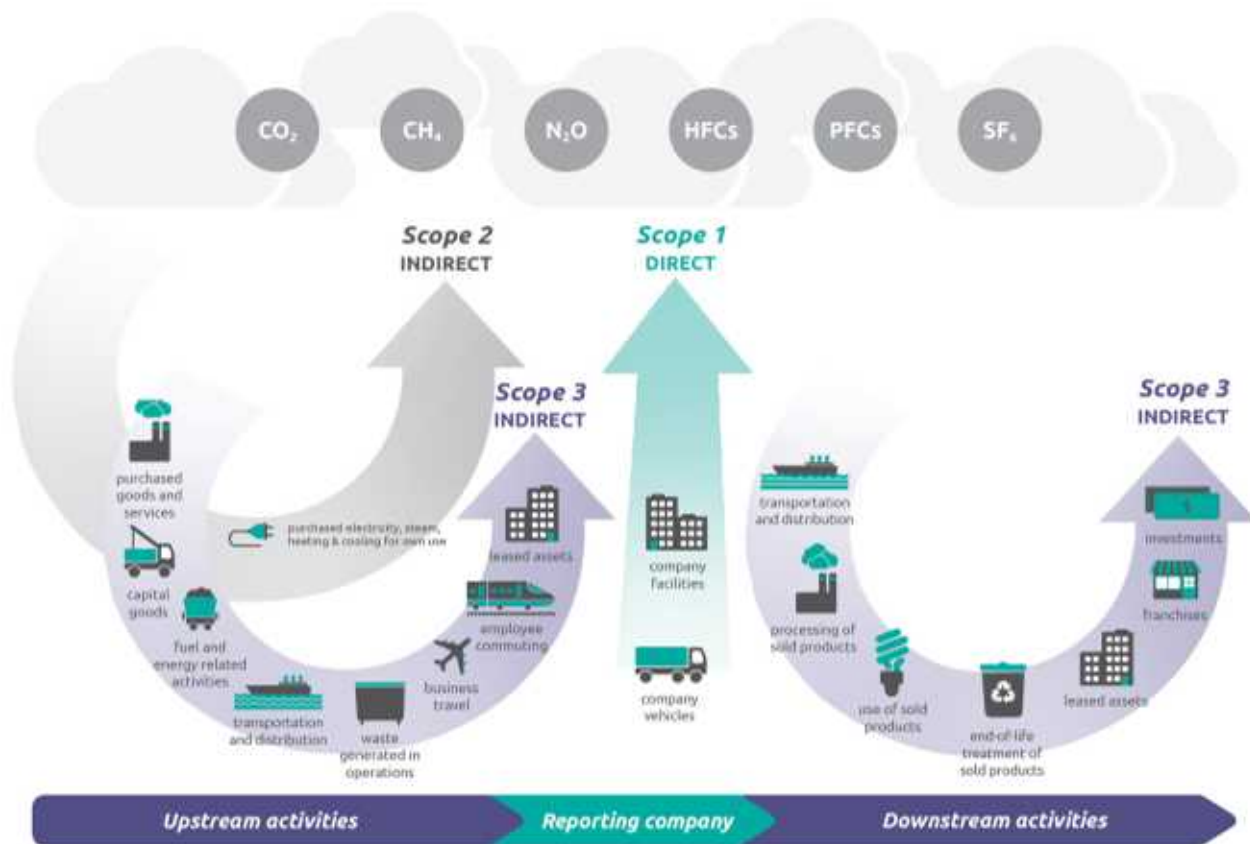
We have a utility task force that is committed to optimizing our manufacturing processes, and we will continue to invest in advanced technologies and closed-loop water systems to reduce freshwater usage and minimize waste. By monitoring and analyzing water use in production, we have identified several opportunities to improve efficiency and implement best practices for conservation. As these strategies are implemented, we will monitor our progress with key performance indicators. These continued efforts not only lower our environmental footprint but also support long-term resource sustainability, aligning our operations with global goals for responsible manufacturing and environmental stewardship.



## GREENHOUSE GAS EMISSIONS

In the past year, Polyvel has made significant strides toward better understanding and managing its environmental impact by calculating Scope 1 and 2 greenhouse gas emissions. This initiative is a key part of our ongoing commitment to sustainability and climate responsibility.

Emissions Intensity (MT CO <sub>2</sub> e/MT produced)	
Scope 1	0.019
Scope 2 (location based)	0.204



**Source:** Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard, 2011; wri.org.

# WASTE MANAGEMENT

At Polyvel, we are committed to minimizing and properly managing waste generated in our operations. Our internal waste management team has led the implementation of several operational programs aimed at reducing yield loss, responsibly segregating waste streams, and diverting materials from landfills through source reduction, process optimization, and third-party solutions. We are committed to segregating, categorizing, and properly disposing of each type of waste generated in our facility. Our team has also developed several initiatives to reuse, repurpose, reclaim, and recycle many materials contributing to a high percentage of waste diversion from a landfill.

Polyvel took several initiatives in the last year to minimize waste generation and properly handle inevitable waste streams:

**Mapping Waste Streams:** Polyvel gained a much better understanding of the different type of waste that is generated and the source of generation.

**Categorizing and Segregating Waste Streams:** This is essential for effective waste management and environmental responsibility. By clearly identifying different types of waste, Polyvel can ensure each stream is handled through the most appropriate recovery, recycling, or disposal pathway. Proper segregation not only reduces contamination and increases recycling efficiency but also lowers waste-handling costs and minimizes environmental impact.



**Process Optimization:** At Polyvel, we streamline production processes to minimize waste generation, such as reducing off-spec material or minimizing overproduction.

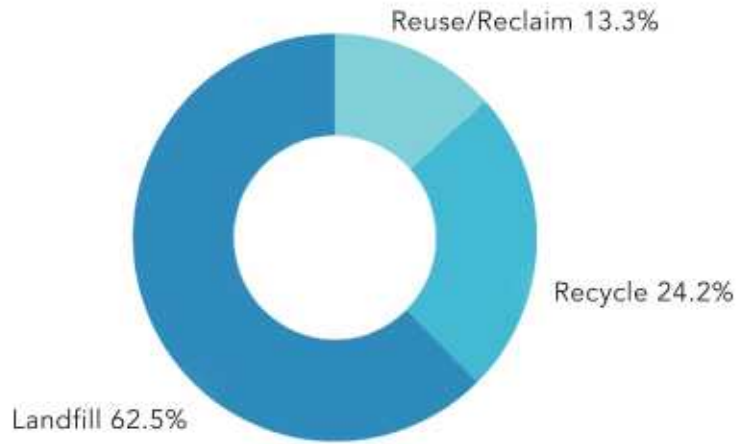
**Lean Manufacturing Practices:** Polyvel implements lean principles to conserve energy/resources, and reduce waste through improvements in production efficiency.

**Material Substitution:** Wherever possible we use alternative materials or packaging that are easier to recycle or have lower environmental impacts.

# WASTE DIVERSION FROM A LANDFILL

At Polyvel, we focus on minimizing waste generation in our operations. Unfortunately, some waste is inevitable and therefore must be managed responsibly. We prioritize diverting these materials from a landfill by reusing, repurposing, and partnering with recyclers wherever possible. Any scrap plastic generated during production is collected, dispositioned, and diverted to its appropriate outlet for rework or responsible disposal. Together, these practices lower our environmental impact while improving operational efficiency.

## 2025 TOTAL WASTE BREAKDOWN



As part of our commitment to more sustainable practices, a baler was installed this year to optimize on-site waste management. Led by the Waste Reduction Task Force, the baler reduces the need for frequent waste transportation and contributes to a more organized and resource-efficient workspace. This improvement aligns with our sustainability goals by promoting operational practices that conserve resources and reduce environmental impact, while also positioning us to pursue more ambitious efficiency and sustainability targets in the future.

# COMMUNITY INVOLVEMENT

## EARTH DAY 2025

On April 22, 2025, the Polyvel team participated in an annual cleanup of the properties surrounding our Hammonton, NJ facility to promote environmental awareness and encourage involvement in environmental conservation. Cleanups serve as a reminder of the importance of protecting our planet and the need for collective action to combat climate change and environmental degradation. By participating in the annual Earth Day cleanup, our team remains committed to contributing to a healthier environment and addressing the growing challenges of plastic pollution and waste.



## RECYCLING SUMMIT PRESENTATION

At a leading global recycling summit, Polyvel presented how innovative additives are helping improve the quality and usability of recycled plastics. These solutions address key challenges like strength, appearance, and consistency, enabling manufacturers to use more recycled content without sacrificing performance. By focusing on additives designed for circularity, we're supporting a future where plastics can be recycled again and again in line with sustainability goals.

# FUTURE COMMUNITY INVOLVEMENT

## SCHOOL EDUCATION

For future community involvement, Polyvel is looking into visiting schools to educate students on proper recycling techniques. In an era marked by growing environmental concerns, educating society about recycling has never been more critical. Industry experts across waste management, sustainability, and environmental science agree: school education is the foundation of a more sustainable world. School education about recycling is more than a lesson in sorting trash; it's an investment in the future. By instilling knowledge, shaping behavior, and nurturing environmental values, schools play a pivotal role in addressing global sustainability challenges. As industry experts affirm, the classroom is where real change begins.

## ADOPT A ROAD CLEAN COMMUNITY PROGRAM

New Jersey Clean Communities is a statewide, comprehensive, litter-abatement program created by the passage of the Clean Communities Act in 1986. The mission is to reduce litter in public places, promote the volunteer cleanup of public lands and sustain a reduction in litter through education. Polyvel will adopt a road near our facility where our team will be assigned a specific site from which we will remove litter on a regular basis. Polyvel will be responsible for tending to the site as often as necessary depending on the amount of litter that is generated at the particular site we are assigned to. This often means a cleanup is necessary once per month.

# FUTURE GOALS

1

## **Product Development**

Product innovation for sustainability by increasing our portfolio of additives that extend product life, enhance recyclability, and reduce environmental impact.

2

## **Waste Management**

Waste generation reduction and increased waste diversion from landfills through improved material utilization, expanded recycling partnerships, and process changes that reduce scrap.

3

## **Utilities**

Optimization of energy and water consumption through investments in equipment upgrades, improving production scheduling, and decreasing downtime.

4

## **Suppliers and Customers**

Increased supplier and customer engagement to encourage responsible practices across the value chain.

5

## **Reporting**

Establish quantifiable goals and key performance indicators (KPIs) in all areas and increase transparency in reporting to measure progress, adjust strategies, and hold ourselves accountable.

6

## **Community Involvement**

Expand community involvement and education in local school systems.

## SUSTAINABILITY STEERING COMMITTEE

**Madeline Daecher** | Quality & Sustainability Engineer

**Bob Dees** | Plastics Engineer

**Dean Dodaro** | Technical Services Manager

**David Morgan** | Quality Manager

**Rick Wadbrook** | Global Director: Sales, Marketing & Sustainability

**Christopher Watts** | Director of Operations