



### Green Fabric – Sustainable Fashion Technology

Green Fabric is a pioneering fashion technology startup revolutionizing the textile industry through innovative recycling solutions. We transform discarded PET plastic bottles into high-quality recycled polyester fabric, creating sustainable materials for apparel and home textiles while actively combating the global plastic waste crisis.

Our mission extends beyond fabric production – we're building a circular economy where waste becomes valuable resources. By converting billions of plastic bottles that would otherwise pollute landfills and oceans into premium textiles, we're proving that environmental responsibility and commercial success can go hand in hand. Every yard of our fabric represents a step toward a more sustainable future for fashion.

### The Global Plastic Waste Crisis

350M

91%

8.3B

Tonnes of Plastic Waste

Produced globally every year, creating an environmental emergency

Not Recycled

Most plastic waste ends up in landfills, oceans, or incinerated

**Tonnes Total** 

Cumulative plastic produced since the 1950s worldwide

The world faces an unprecedented plastic waste crisis that threatens our planet's ecological balance and human health. According to <u>Our World in Data</u>, we produce approximately 350 million tonnes of plastic waste annually, with production rates accelerating faster than our ability to manage disposal responsibly.

This massive volume of waste overwhelms existing infrastructure, leading to widespread environmental pollution. Mismanaged plastic waste clogs drainage systems, contaminates soil and water sources, and creates floating garbage patches in our oceans. Marine ecosystems suffer devastating impacts as sea life ingests plastic debris or becomes entangled in waste, disrupting food chains and biodiversity.

The scale of this challenge demands immediate, innovative solutions that transform waste streams into valuable resources, creating economic incentives for proper waste management while addressing environmental concerns.

### \$1.5 Trillion Health Crisis

#### Plastic Pollution's Hidden Health Toll

The plastic waste crisis extends far beyond environmental damage – it's creating a global health emergency of staggering proportions. A comprehensive report published in The Lancet warns of a \$1.5 trillion annual health crisis directly linked to plastic pollution, affecting human health from infancy through old age.

Microplastics, tiny particles less than 5mm in diameter, have been detected in human organs including the lungs, liver, kidneys, and even placental tissue. These particles carry toxic chemicals including phthalates, bisphenol A (BPA), and flame retardants that can disrupt endocrine function, cause reproductive issues, and potentially increase cancer risks.

The health impacts are particularly severe for vulnerable populations. Children face developmental risks from early exposure, while pregnant women may transfer contamination to developing fetuses. Communities near plastic production facilities and waste sites experience disproportionately higher rates of respiratory diseases and other health complications.



"Plastic pollution is not just an environmental issue – it's a public health crisis requiring urgent action across industries and governments."

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# Polyester: From Waste to Resource



#### PET Bottles

Billions of discarded plastic bottles become raw materials for sustainable textile production

#### Transformation

Advanced recycling technology converts waste into high-quality polyester fibers

#### **Premium Textiles**

Recycled polyester fabrics match virgin material quality while reducing environmental impact

Polyester represents one of the most significant opportunities in sustainable textile production. As the world's most widely used synthetic fiber, polyester accounts for over 50% of global fiber production, primarily derived from petroleum-based resources. However, polyester's molecular structure makes it perfectly suited for recycling from PET plastic bottles.

The recycling process transforms what was once considered waste into valuable resources, creating a circular economy model that reduces dependence on virgin petroleum resources. Each ton of recycled polyester saves approximately 2 tons of CO2 emissions compared to virgin polyester production, while simultaneously diverting plastic waste from landfills and oceans.

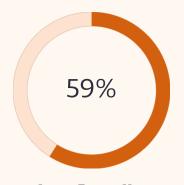
This transformation addresses multiple challenges simultaneously: reducing plastic waste, decreasing greenhouse gas emissions, conserving petroleum resources, and meeting growing demand for sustainable textiles in the fashion industry.

### Our Production Process

01	02
Collection & Sorting	Cleaning & Preparation
PET bottles are collected from recycling centers and sorted by color and quality to ensure optimal processing results	Bottles undergo intensive cleaning to remove labels, adhesives, and contaminants, ensuring purity for textile production
03	04
Mechanical Processing	Melting & Extrusion
Clean bottles are shredded into uniform flakes and washed again to achieve the highest quality standards	Flakes are melted and extruded through spinnerets to create continuous polyester filaments
05	06
Fiber Production	Fabric Manufacturing
Filaments are drawn, crimped, and cut into staple fibers ready for spinning into yarn	Yarns are woven or knitted into finished fabrics, ready for apparel and home textile applications

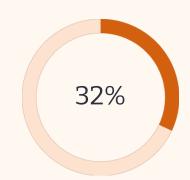
Our state-of-the-art production process combines advanced recycling technology with traditional textile manufacturing expertise. We maintain strict quality control at every stage, ensuring our recycled polyester fabrics meet or exceed industry standards for durability, colorfastness, and performance characteristics.

#### Environmental Impact Reduction



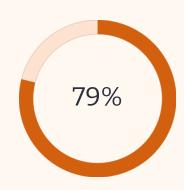
Lower Energy Use

Compared to virgin polyester production



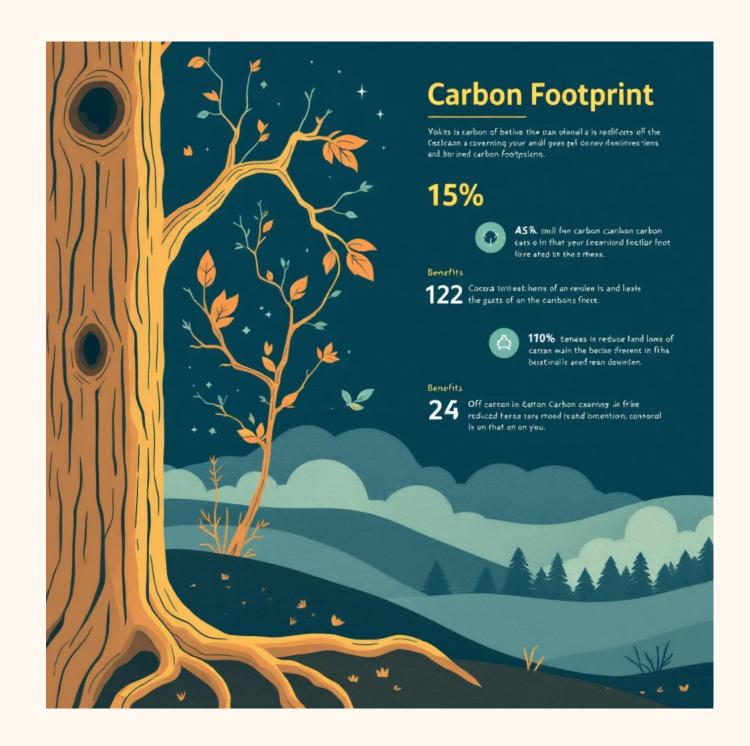
Reduced Water Consumption

Significant water savings throughout the process



Fewer CO2 Emissions

Dramatic reduction in greenhouse gas output



The environmental benefits of recycled polyester extend across multiple impact categories, creating comprehensive sustainability improvements. Our recycled polyester production generates significantly fewer greenhouse gas emissions compared to virgin polyester, contributing to climate change mitigation efforts while maintaining product quality and performance.

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### Our Sustainable Product Portfolio

#### Sustainable Apparel

Our fashion line includes premium t-shirts, elegant gowns, versatile dresses, protective washable face masks, and durable reusable grocery bags. Each piece combines style with sustainability, offering consumers guilt-free fashion choices.

#### Home Textiles

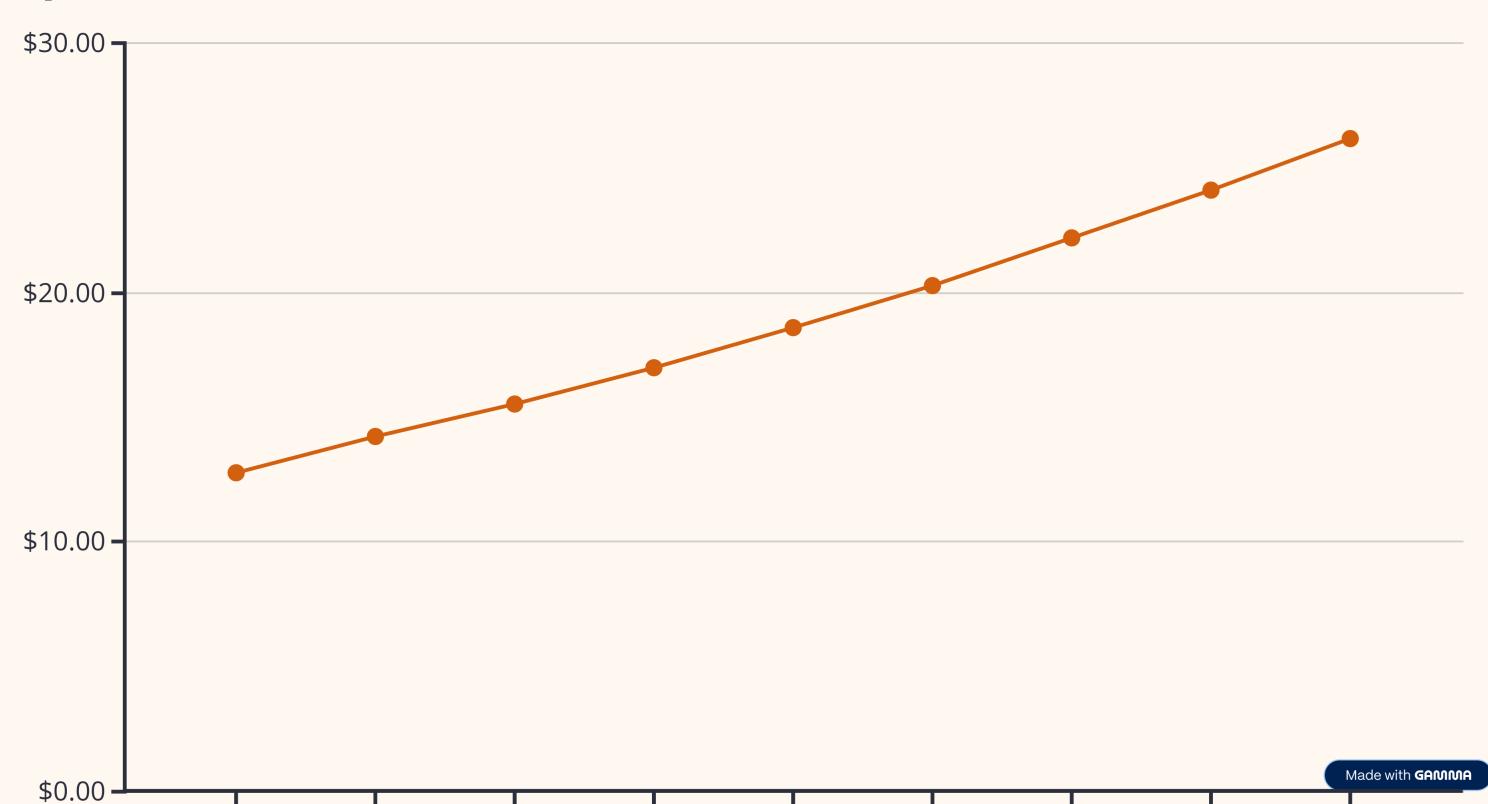
Transform your living space with our ecofriendly home textile collection featuring ultra-absorbent towels, comfortable bed linens, and durable upholstery fabrics. Experience luxury that aligns with environmental values.

#### Sustainable Packaging

Our commitment to sustainability extends to packaging, using 100% recycled materials that can be recycled again. This closed-loop approach minimizes waste throughout the entire product lifecycle.

Every product in our portfolio represents our commitment to combining environmental responsibility with consumer satisfaction. We focus on durability, comfort, and aesthetic appeal while maintaining our core mission of waste reduction and resource conservation.





## Green Fabric's Measurable Impact

#### Waste Reduction

Every ton of our recycled polyester fabric diverts approximately 2,000 plastic bottles from landfills and oceans, directly contributing to waste stream reduction and environmental cleanup efforts.

#### Circular Economy

We're pioneering closed-loop manufacturing where waste becomes valuable input, demonstrating that environmental responsibility and profitable business operations can coexist and thrive together.

#### Consumer Choice

Our products offer consumers accessible, stylish, and sustainable alternatives to conventional textiles without compromising on quality, durability, or aesthetic appeal.

Green Fabric's impact extends beyond environmental metrics to encompass social and economic benefits. We create jobs in recycling and sustainable manufacturing sectors while building supply chain partnerships that support local communities. Our success demonstrates market viability for sustainable business models, encouraging industry-wide adoption of circular economy principles.

By choosing recycled polyester, consumers participate in a larger movement toward sustainable consumption patterns. Each purchase represents a vote for environmental responsibility and supports the development of innovative solutions to global environmental challenges.

### Join the Sustainable Fashion Revolution

# Together, We Can Transform Fashion



#### Choose Sustainable

Support Green Fabric products and join millions of consumers making environmentally conscious fashion choices that drive positive change.



#### Partner With Us

Collaborate with Green Fabric to integrate sustainable materials into your product lines and meet growing consumer demand for eco-friendly options.



#### Invest in Impact

Join our mission to scale sustainable textile production and create lasting environmental change while building a profitable, future-focused business.

The future of fashion is sustainable, and that future starts with the choices we make today. Green Fabric offers a proven solution that addresses environmental challenges while meeting market demand for quality, affordable textiles. Our technology, market position, and growth trajectory present an exceptional opportunity for investors and partners who want to be part of the solution.

Visit our website to explore our complete product portfolio, learn about partnership opportunities, and discover how Green Fabric is revolutionizing the textile industry one recycled bottle at a time. Together, we can build a more sustainable world where fashion and environmental responsibility work in perfect harmony.