

POLYTEKS®

member of TAŞDELEN group

**Innovative Bio-Based and
Renewable Filament Yarns:**

**Advancing Sustainable Textile
Solutions**

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Who we are



1.

Expertise: Synthetic filament yarn manufacturer with extensive knowledge of polyester and advanced polymers.

Company Profile : Large Scale Industrial

- Established: 1986
- Location: Turkiye
- 40000 m² Production Plant
- 700 employees

Production Capacity: Over 7,000 tons/month across diverse yarn types:

- POY, FDY (raw white and solution dyed), and DTY texturized yarns.
- AJT and technical yarns (350+ tons/month)

2.

- **Capabilities:** R&D-driven innovation in sustainable textiles, biodegradable materials, and closed-loop systems.
- **Core Strengths:**
- Expertise in working with PET, R-PET, CR-PET, biopolymers (PLA, PBS), PP, and PE.
- Pilot-to-industrial scale integration of polymer processing.

3.

CERTIFICATES

- ISO 9001 : 2015
- ISO 14001
- ISO 45001
- ISO 10002
- ISO 50001
- OEKO TEX Standard 100
- Global Recycle Standard (GRS)

MEMBERSHIPS

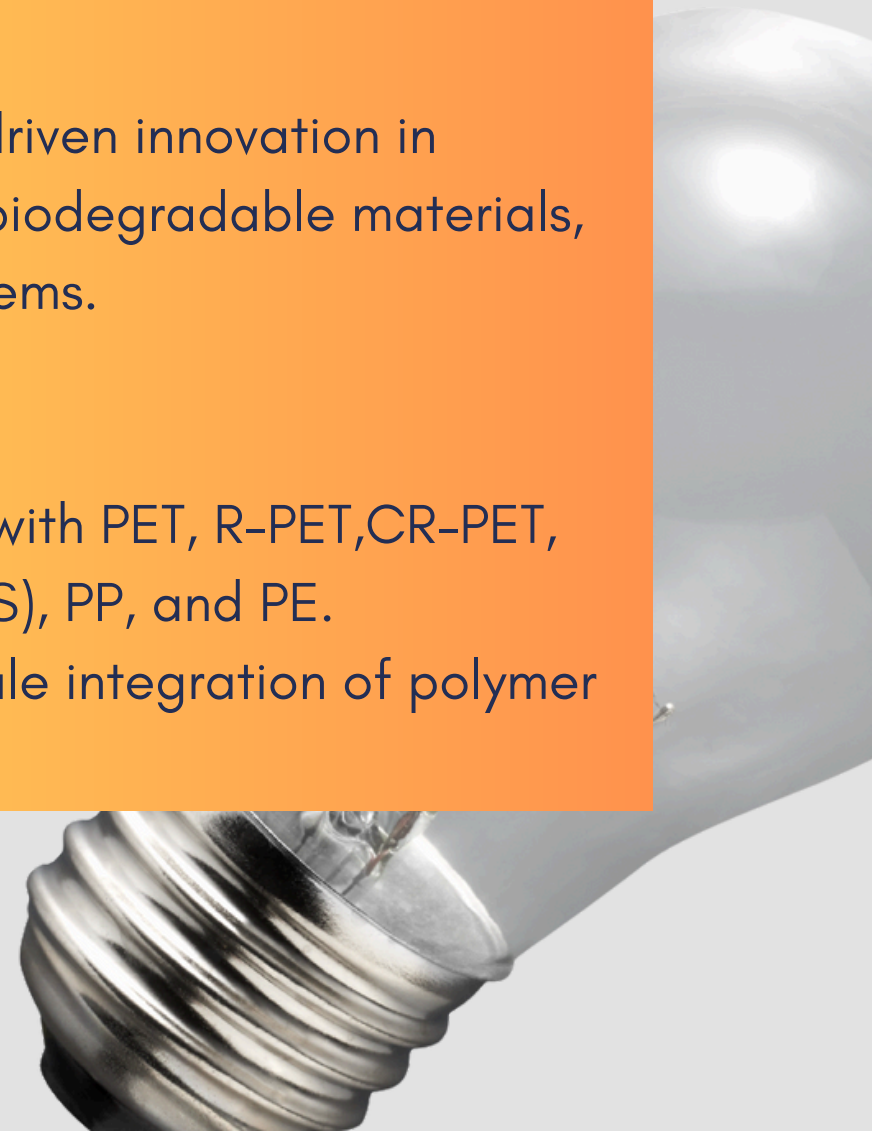
- CIRFS
- SUSEB
- TTGV
- TECHXTILE

ATTENDED CONFERENCES

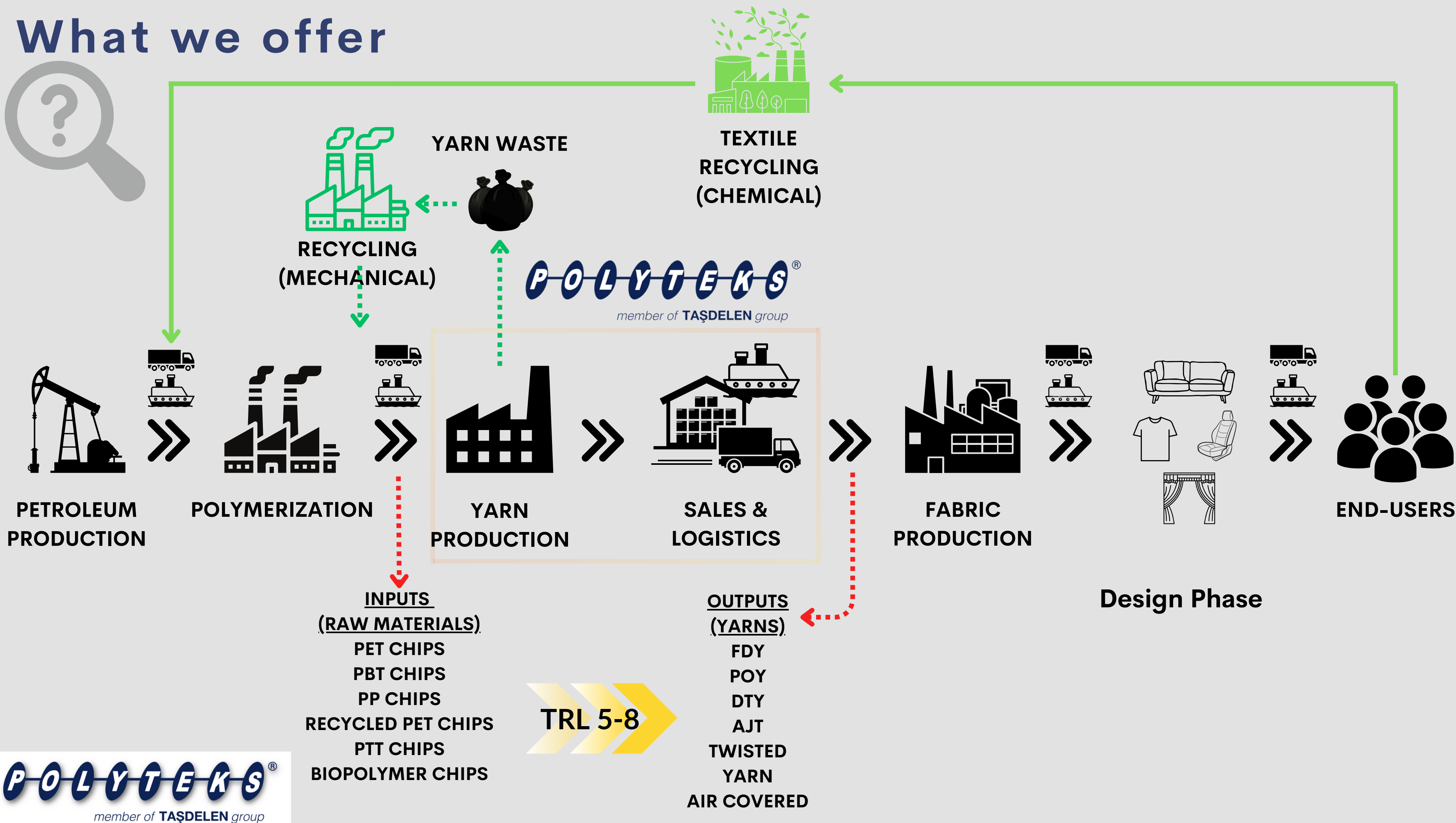
- DORNBIRN GLOBAL FIBER
- AUTEX
- FIBER SOCIETY

4. Company R&D CENTER

- Experience in EU and International Collaborative Projects
- HORIZON EUROPE(2 reserved list, 2 above threshold project)
- CBE JU (1 reserved list project)
- Eureka(1 funded project)
- Eurostars(1 funded project)
- (Developing sustainable textile recycling systems, bio-based/recyclable materials for automotive and furniture, flame-retardant composites, advanced polymers).



What we offer



Why Collaborate with POLYTEKS?

- 1. Experience:** 35+ years of leadership in synthetic filament yarn production.
- 2. Innovation:** Proven track record of sustainable solutions with advanced R&D capabilities.
- 3. Scalability:** Industrial-scale production with flexible pilot testing.
- 4. Collaboration:** Extensive history of partnerships with universities, industries, and sustainability experts.
- 5. Commitment:** Shared vision for a sustainable and circular textile industry.



Key Achievements

- **TRL Development:** Advanced technologies from TRL5 to TRL8, including pilot-to-industrial scale implementations.
- **Sustainability:** Focus on circular economy and green transitions through biobased polymers, recycled materials, and closed-loop systems.
- **Innovative Products:** Produced biodegradable, flame-retardant, and thermally invisible polyester yarns for technical and consumer applications.

Partners sought



Let's collaborate!

To achieve the objectives of the project and contribute to the Horizon Europe and CBE JU 2025 Calls, POLYTEKS seeks to collaborate with partners who possess complementary skills, resources, and expertise in the following areas:



Polymer Raw Material Producers:

- Companies specializing in biopolymers or biorefineries.
- Supply bio-based and biodegradable polymer raw materials for development and optimization.



Technology Providers:

- Companies offering advanced machinery and technologies for polymer processing or textile manufacturing
- Share expertise in implementing SSbD principles in manufacturing.



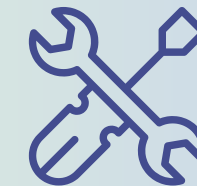
Research Institutions & Universities:

- Universities and R&D organizations with expertise in polymer science, sustainability, and textile innovation.
- Conduct polymer formulation R&D



Sustainability Experts:

- Organizations or consultants specializing in life cycle assessments (LCA), environmental impact analysis, and circular economy practices.



Industry Stakeholders: (End Users)

- Textile manufacturers, fashion brands, or industries requiring high-performance and sustainable yarns.

Topic and Project Ideas

Development of bio-based yarns leveraging advanced polymer technologies, renewable resources, and closed-loop systems to contribute to circular economy

CBE JU OPEN
CALLS 2025

Call Topics:

- **SSbD bio-based solutions for replacing hazardous chemicals (€13.5M).**
- **Cost-effective continuous biotech bio-based processes (€14M).**
- **SSbD bio-based polymers unlocking new applications (€13.5M).**

SUSTAINABLE TEXTILES

- TEXTILE TO TEXTILE RECYCLING
- GREEN TRANSFORMATION AND ZERO WASTE

BIOPOLYMERS

- NEW BIOPOLYMER STUDIES
- BIOBASED / BIODEGRADABLE YARNS

COMPOSITE TEXTILES/ ADVANCED MATERIALS

- THERMOPLASTIC TEXTILES
- HYBRID YARN DEVELOPMENTS
- ADVANCED MATERIAL STUDIES



Thank You



- ✦ Addressing industry challenges with sustainable and innovative textile solutions.
- ✦ Join us in shaping the future of textiles through collaboration and innovation.

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