Textile Fiber Recovery Lines

ANMD-MRS6-060 · Recycling & Circular Economy

A Global Sustainability Due Diligence & Market Research Study

History 2020–2024 · Base Year 2025 · Forecast 2025–2032 · Outlooks 2035 / 2040 / 2050 · Currency US$

WHY THIS REPORT

Textile fiber recovery lines turn discarded clothing and textile waste into reusable fibers, transforming one of the least-recycled waste streams into circular feedstock. This decision-grade study sizes the global market three ways — value, units and installed capacity (tonnes/year) — across line type, recovery process and application, across seven regions and four scenarios to 2032, with outlooks to 2050.

SUSTAINABILITY & SDG IMPACT — THE ANMD LENS

Sustainability is this report's backbone, not an afterthought. Beyond throughput, textile fiber recovery lines deliver measurable textile-waste diversion, recovered fibers and certified fiber-to-fiber circularity, while closing the textile loop strengthens the circular-economy story.

Mapped Sustainable Development Goals:

SDG 12 Responsible Consumption	**SDG 13** Climate Action	**SDG 15** Life on Land

Measurable sustainability outcomes assessed:

- Textile-waste diversion and recovered-fiber yield
- Certified fiber-to-fiber circularity and loop closure
- Reduced landfill and incineration of textile waste
- Feedstock quality, contamination and offtake as material risks

Framework alignment: Double materiality mapped to GRI, SASB, ISSB, TCFD, TNFD, CSRD and the EU Taxonomy, with greenwashing and SDG-washing screens applied throughout.

WHAT'S INSIDE AT A GLANCE

53 Chapters	**9** Report Parts	**7** Regions Covered	**40+** Country Markets
2025–32 Forecast Horizon	**4** Forward Scenarios	**25+** Companies Profiled	**3** SDGs Mapped

REPORT COVERAGE

Geographic scope: North America, Europe, Asia Pacific, Latin America, Africa, Middle East and Rest of World — with named country intelligence. Europe is the technology leader (Sweden, Germany, United Kingdom) on textile recycling and EPR; Asia Pacific is the scale engine on textile base and waste volume; North America is scaling on circular-fashion demand; other regions assessed on their own merits.

MARKET OVERVIEW

From early adoption to commercial scale — where textile waste becomes recovered, certified circular fiber.

The textile fiber recovery lines market is moving from early adoption to mainstream commercial scale. Demand is driven by circular-economy and recycling pressure converging with regulation and material-security needs, supported by strong momentum across Europe, Asia Pacific and North America. The market is read three ways — value, units and installed capacity — and forecast under four scenarios, each region reported separately.

- **Europe is the technology leader** — Sweden, Germany and the United Kingdom, on textile recycling and EPR-driven adoption
- **Asia Pacific is the scale engine** — China, India and Bangladesh, on textile base and waste volume
- **North America is scaling** — United States and Canada, on textile-waste flows and circular fashion
- **Recovery economics is the differentiator** — recovered-material value plus avoided disposal underpin returns landfill cannot match

REGIONAL OUTLOOK

Across seven reporting regions, the report separates leading markets from high-growth and emerging ones — each profiled in full rather than aggregated into Rest of World.

Region	Stage	Lead Markets & Drivers
Europe	Technology leader	Sweden, Germany, United Kingdom — textile recycling, EPR
Asia Pacific	Scale engine	China, India, Bangladesh — textile base, waste volume
North America	Scaling	United States, Canada — textile waste, circular fashion
Middle East	High-growth	UAE, Turkey — textile manufacturing, recycling investment
Latin America	Emerging	Brazil, Mexico — textile-waste flows, packaging demand
Africa	Emerging	South Africa, Kenya — textile waste, recovery access

KEY MARKET DRIVERS & RESTRAINTS

Drivers	Restraints
• Textile-waste + fiber-circularity convergence • Brand-owner & retailer circularity targets • Policy support (EPR, recycling targets, landfill bans) • Material-recovery & avoided-disposal economics • Sensor, AI, robotics & process-technology gains	• Capital cost & project-payback uncertainty • Feedstock quality, contamination & variability • Permitting, offtake & standards gaps • Equipment, energy & reagent cost inflation • Operator scale-up, financing & offtake barriers

SEGMENTATION SNAPSHOT

By Line Type	Mechanical fiber recovery · chemical / polymer · enzymatic · automated sorting · fiber-to-fiber
By Process	Mechanical · chemical · enzymatic
By Application	Post-consumer textiles · production & pre-consumer waste · cotton, polyester & blends
By End User	Recyclers & MRF operators · waste processors · municipalities · OEMs · circular ventures
By Business Model	Capital purchase · turnkey EPC · processing-as-a-service · lease / BOO
By Scale	Pilot · commercial · world-scale

TABLE OF CONTENTS — PARTS & CHAPTERS

The full report is organised into nine parts across 53 chapters, listed below. Detailed sub-headings, country tables and directories are provided in the full report.

COMPETITIVE & INVESTMENT SNAPSHOT

The competitive field spans global recycling-equipment majors, specialist textile fiber recovery line providers, and emerging innovators. Deal activity — M&A, capacity investment and offtake partnerships — signals a market consolidating around scalable, bankable recycling infrastructure.

Representative players profiled in the full report:

ANDRITZ AG · Lenzing AG · Eastman Chemical Company · Worn Again Technologies Ltd · and 20+ further profiled players across recyclers, equipment makers and emerging innovators.

Investment intelligence: venture, growth, project, infrastructure and climate finance, green bonds and sustainability-linked loans — culminating in a bankability assessment and a conditional investment view.

KEY QUESTIONS THIS REPORT ANSWERS

- How large is the global textile fiber recovery lines market, and how fast will it grow to 2032?
- Which regions, countries and segments offer the strongest risk-adjusted opportunity?
- How does recovery economics change value versus landfill and incineration incumbents?
- Who leads, and where is the competitive and patent white space?
- Is the investment case bankable — and under what conditions?
- How does the category align with the SDGs, circular economy and disclosure regulation?

WHY ANMD — THE DIFFERENCE

Most market studies stop at units and revenue. This report is built as a sustainability due diligence instrument — fusing market sizing with ESG, SDG, climate, water and natural-capital intelligence and a decision-ready bankability view in a single architecture.

- **Triangulated sizing** — every market read three ways so value, volume and the physical-unit views reconcile rather than conflict.
- **Region-honest forecasting** — Latin America, Africa and the Middle East reported in full, never hidden inside Rest of World, every forecast resolved to the 2025 base year.
- **Integrated evidence base** — company, patent and project databases linked to the analysis, with published-filing patents and FTO treated as an indicator, not a legal conclusion.
- **No-fabrication discipline** — every estimate carries a data-confidence rating and disclosed sources; gaps are flagged for further diligence, never filled with invented numbers.
- **Anti-greenwashing rigour** — SDG-washing and greenwashing screens plus claim-substantiation checks built into the ESG and project analysis.
- **Decision-first structure** — 9 Parts and 53 Chapters culminating in stakeholder playbooks and a clear, conditional investment view.

WHO SHOULD BUY THIS REPORT

Investors and recycling / PE funds, equipment makers and recyclers, municipalities and waste processors, circular-economy ventures and brand owners, procurement and sustainability leaders, regulators and standards bodies, and strategic corporate planners and decision-makers.

Access the Full Report

The complete report delivers all 53 chapters in full, with every sub-heading, country table, company and patent directory, forecast model and due diligence checklist.

Purchase at **www.anewmarketdynamics.com** · Standard & Premium licences · Single-Site (SSL) and Global-Site (GSL) options at checkout.

Want the Complete Detailed Table of Contents?

This prospectus lists the nine parts and 53 chapters. The complete detailed table of contents — every sub-heading, country table, exhibit, company and patent directory and annex — is available on request to registered users. To receive it, register with your official company email at **www.anewmarketdynamics.com**. The full detailed table of contents will be sent directly to your registered company email address.