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FUNCTIONAL FABRIC FAIR

TEXTILE-TO-TEXTILE RECYCLING INNOVATORS

2026 REFERENCE GUIDE

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Company	Company Pitch	Feedstock	Material Output	Recycling Type	Country	Status	Key Collaborations	USP & Certification
 <p>ambercycle.com</p>	<p>Ambercycle is a California-based innovator using proprietary molecular recycling to transform end-of-life polyester garments into cycora® – a high-quality, regenerated polyester. Their process enables true textile-to-textile recycling, offering a sustainable alternative to virgin polyester without sacrificing quality.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>cycora® – virgin-equivalent regenerated polyester (chips/yarn)</p>	<p>Chemical (Molecular) Recycling</p>	<p>USA</p>	<p>Commercial, scaling up</p>	<p>Strategic manufacturing partnerships in Asia and Europe help integrate cycora® into mass-market apparel production, such as Arc'teryx, Zalando, Weekday.</p>	<p>High-quality, virgin-equivalent regenerated polyester</p>
 <p>blocktexx.com</p>	<p>BlockTexx® is an Asia-Pacific innovator transforming blended polyester/cotton textiles into high-value rPET and cellulose through its proprietary S.O.F.T.™ (Separation of Fibre Technology). The fully commercial facility converts post-consumer textiles into virgin-quality recycled outputs while preserving dyes and recovering both fiber streams with high yield.</p>	<p>100% post-consumer textiles; compatible with polyester/cotton blends, 100% cotton, 100% polyester and MMCs. Accepts whole textiles and textile scrap. Not suitable for nylon/elastane blends or animal fibers.</p>	<p>Recycled PET (chips/fibers) and recovered cellulose</p>	<p>Chemical + Mechanical (Hybrid)</p>	<p>Australia (HQ & facility)</p>	<p>Commercial, scaling up</p>	<p>Asia Pacific Fibers (ID), Erema (equipment partner). In Australia: in-house collection, sorting, and pre-processing.</p>	<p>Virgin-comparable quality; colored or dyeable; low emissions. GRS-certified (Global Recycled Standard) and RCS-certified (Recycled Claim Standard).</p>
 <p>circ.earth</p>	<p>Circ™ is a U.S. company specializing in chemical recycling of polyester-cotton blends using a patented hydrothermal process. It separates and recovers both polyester and cellulose, enabling high-quality fiber regeneration from hard-to-recycle textiles.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>Separated polyester & cellulose pulp</p>	<p>Chemical (Hydrothermal) Recycling</p>	<p>USA</p>	<p>Commercial, scaling up</p>	<p>Partners with Zara, Target and Birla Cellulose.</p>	<p>Low-energy, water-based recycling for difficult blends</p>
 <p>coleo.es</p>	<p>Coleo® is a Spain-based textile recycling company specializing in the mechanical recovery of polyester and cotton fibers, particularly from blended fabrics. The company focuses on turning pre- and post-consumer textile waste into high-quality spun yarns, making it a key player in advancing circularity through Textile-to-Textile (T2T) recycling.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>Recycled yarns (fabric-ready)</p>	<p>Mechanical Recycling (spinning)</p>	<p>Spain</p>	<p>Commercial, scaling up</p>	<p>Recovo Partnership and ReHubs Initiative</p>	<p>Five recycled fabric types on Recovo marketplace</p>
 <p>curetechnology.com</p>	<p>CuRe Technology uses thermo-chemical recycling to partially depolymerize hard-to-recycle polyester textiles, producing like-virgin fibers with lower energy use and emissions—ideal for blended or coated fabrics.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>Recycled PET (chips/fibers)</p>	<p>Chemical (Smart thermochemical) Recycling</p>	<p>Netherlands</p>	<p>Pilot stage</p>	<p>CuRe is backed by major industry players such as Indorama Ventures, one of the world's largest PET producers, which supports CuRe's vision of a global circular polyester loop.</p>	<p>Targets hard-to-recycle polyester blends</p>
 <p>cycloneyarn.com</p>	<p>Cyclone® is a China-based company that chemically recycles polyester-rich textile waste into high-quality yarns. Its process ensures fiber purity and performance comparable to virgin polyester, serving both fashion and industrial applications.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>Recycled polyester yarns</p>	<p>Chemical Recycling</p>	<p>China</p>	<p>Commercial, scaling up</p>	<p>Collaborates with various local and international brands.</p>	<p>Focus on fiber purity and consistent quality; GRS-certified (Global Recycled Standard)</p>
 <p>earthprotex.com</p>	<p>EarthProtex™ is a Canadian textile recycler producing high-quality polyester fibers from post-consumer and post-industrial textile waste. Using advanced thermo-mechanical technology, it transforms discarded polyester into regenerated fiber suitable for new yarns and fabrics.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>High-quality recycled PET fiber (fabric-ready)</p>	<p>Thermo-Mechanical Recycling</p>	<p>Canada</p>	<p>Commercial, scaling up</p>	<p>Collaborates with various local and international brands.</p>	<p>Strong quality preservation GRS-certified (Global Recycled Standard)</p>
 <p>gr3n-recycling.com</p>	<p>Gr3n is a Swiss-Italian clean-tech company advancing circularity through proprietary enzymatic hydrolysis technology. It breaks down postconsumer PET, including blends and colored textiles, into virgin-quality monomers (EG and TPA), enabling true chemical recycling across diverse textile waste streams.</p>	<p>Pre- and post-consumer waste, primarily polyester/cotton blends</p>	<p>High-purity monomers</p>	<p>Enzymatic + Microwave Recycling</p>	<p>Italy</p>	<p>Pilot stage</p>	<p>participates in EU-funded circular economy projects such as DEMETO and T-REX</p>	<p>High-quality recycled PET fiber (fabric-ready)</p>







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 Chemical Recycling jiarenrecycle.com	<p>Jiaren Chemical Recycling stands as a global leader in the chemical recycled polyester industry. It focuses in advancing textile circularity and boasts robust industrial-scale delivery capabilities. Specializing in chemical recycling, it covers the full polymer lifecycle, creating high-value alternatives to virgin materials and ensuring sustainable innovations yield reliable, large-volume results.</p>	Pre- and post-consumer waste.	Polyester chips, filaments, staple fibers	Chemical (depolymerization and repolymerization) Recycling	China	Commercial, scaling up	Collaborates with various international brands such as Decathlon, Hugo Boss, Nike, Adidas, Zara, H&M.	Industrial-scale closed-loop polyester recycling, RCS certified, ISCC PLUS certified, OEKO-TEX certified, Intertek certified. GRS-certified (Global Recycled Standard)
 purfiglobal.com	<p>Purfi is a textile technology company headquartered in Belgium, with operations in the USA, specializing in the mechanical regeneration of textile waste into high-quality fibers. Their proprietary process revitalizes pre- and post-consumer textiles without degrading fiber quality. Purfi's system restores fibers to near-virgin quality, preserving length and integrity. The resulting long-staple fibers are suitable for spinning into high-performance yarns, enabling true textile-to-textile circularity.</p>	Pre- and post-consumer waste, primarily polyester/cotton blends	Long-staple regenerated fibers (yarn-ready)	Mechanical Recycling ("rejuvenation")	Belgium / USA	Commercial, scaling up	Cooperation with Concordia (Belgium) and Arvind Ltd (India)	Restores fiber to near-virgin quality
 unifi.com	<p>UNIFI, Inc. is a global leader in fiber science and sustainable synthetic textiles. Using proprietary recycling technologies, the company scales the transformation of post-industrial and post-consumer waste into high-performance recycled fibers. Through REPVE®—the world's leading brand of traceable, recycled, and circular polyester—UNIFI enables fully verified circularity via systems such as REPVE Takeback™, REPVE ReCirculate™, and ThernaLoop™ Insulation. With operations across the U.S., Colombia, El Salvador, Brazil, and Asia, UNIFI has already recycled over one billion T-shirt equivalents of textile and yarn waste.</p>	End-of-life polyester textiles; 100% polyester waste	Recycled PET (chips / fiber / staple)	Thermo-Mechanical Recycling	China / USA	Commercial	Collaborates with various local and international brands	High-quality circular PET (fabric-ready); GRS-certified; FiberPrint® tracer; U-Trust® verification
 wornagain.co.uk	<p>Worn Again Technologies is a UK & Swiss based pioneer in post-consumer textile recycling, focused on recovering polyester and cellulose fibers from complex post-consumer blends, especially polyester/cotton. Its proprietary chemical process separates and purifies these fibers, enabling their transformation into virgin-equivalent raw materials for reuse in new textiles – without compromising quality. By targeting one of the industry's toughest recycling challenges, Worn Again advances true circularity in fashion.</p>	Pre- & Post-consumer textiles, polycotton blends, polyester & cotton	Polyester fibres, cellulosic fibres (Lyocell) and cellulose for packaging additives	Polyester fibres, cellulosic fibres (Lyocell) and cellulose for packaging additives	United Kingdom	Pilot stage	Collaborates with various local and international brands such as H & M, Kering, Sulzer Chemtech	Specialized in poly/cotton fiber blends
 depoly.co	<p>DePoly is a Swiss-French cleantech company tackling the challenge of polyester recycling. Using advanced chemical processes, it converts polyester and PET-based textile waste into virgin-quality monomers, enabling true textile-to-textile circularity. Founded in 2020, DePoly addresses the full lifecycle of polyester, offering a sustainable solution to one of fashion's biggest waste problems.</p>	Post-consumer and post-industrial textiles, especially polyester/cotton blends	Virgin-quality monomers	Chemical Recycling	Switzerland	Pilot stage	Collaborates with various local and international brands	Print-removal IP; circular base layer demo
 reandup.com	<p>RE&UP is scaling textile-to-textile recycling with a patented process that separates cotton, polyester and blends into high-quality Next-Gen fibers. Operating from Türkiye and the Netherlands, the company targets 200,000 t/year by 2025 and over 1 million tons by 2030. With Cradle-to-Cradle certifications and partners like PUMA and Marchi & Fildi, RE&UP delivers fully traceable, premium recycled materials at industrial scale.</p>	Pre- and post-consumer waste, primarily polyester/cotton blends	Virgin-grade cotton/polyester fibers	Thermo - Mechanical Recycling	Netherlands HQ;	Commercial, scaling up	Collaborations: PUMA (multi-year circular supply), Marchi & Fildi (premium recycled cotton yarns)	High-volume, feedstock-agnostic closed-loop system Cradle to Cradle Certified®: Platinum for Next-Gen Cotton
 projectplanb.co.uk	<p>Project Re:Claim is a UK-based initiative by Project Plan B and the Salvation Army Trading Company, aiming to close the loop on polyester textile waste. It mechanically recycles post-consumer garments and cutting waste into new, spinnable fibers—within a fully traceable, textile-to-textile system. This scalable solution addresses the growing demand for domestic, circular polyester recycling.</p>	100% polyester cutting waste	Spinnable polyester fiber	Thermo - Mechanical Recycling	UK	Commercial, scaling up	Venture with Salvation Army Trading company and Project Plan B, also use cutting waste	Fully UK-based system with traceability

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 syre.com	<p>Syre is a Swedish textile innovation company founded in 2023 by H&M Group and Vargas Holding to industrialize textile-to-textile (T2T) polyester recycling. Launching operations by mid-2025, Syre aims to replace fossil-based polyester with circular alternatives by producing high-quality recycled polyester (rPET) exclusively from end-of-life textiles – not plastic bottles.</p>	End-of-life polyester textiles	rPET chips (polyester pellets)	Chemical recycling (with closed-loop regeneration)	Sweden	Pilot stage	Collaborates with various local and international brands such as H&M Group, Vargas Holding, Selenis	Closed-loop regeneration at global scale
 hyosungtnc.com	<p>Hyosung TNC, a leading global fiber manufacturer from South Korea, has launched regen™ T2T, a new textile-to-textile recycled polyester yarn made entirely from end-of-life garments. The polyester chips for this yarn are supplied by Loop Industries (Canada), which specializes in chemical depolymerization of PET and polyester waste into virgin-quality monomers. Together, Hyosung and Loop Industries are advancing circularity by integrating post-consumer textile waste back into high-performance fibers for apparel and functional fabrics.</p>	Post-consumer polyester textiles	regen™ T2T recycled polyester yarn	Chemical (depolymerization and repolymerization)	South Korea /Canada	Commercial launch (2025)	Loop Industries (chip supplier)	GRS in process
 carbios.com	<p>Carbios is a French green chemistry pioneer revolutionizing textile recycling with its patented enzymatic depolymerization technology. Founded in 2011, the company specializes in breaking down PET-based materials, including mixed and colored polyester textiles, into their original monomers – TPA and MEG – for reuse.</p> <p>Unlike traditional recycling methods, Carbios enables infinite, high-purity recycling, making circularity achievable at industrial scale, even for waste typically considered unrecyclable.</p>	End-of-life polyester textiles	Base monomers (TPA/MEG)	Enzymatic Recycling: depolymerization – breaks PET down into its base components using engineered enzymes.	France	Pilot stage	Collaborates with various local and international brands such as Puma, ON, Salomon.	Targets mixed /colored textile waste
 antex.net	<p>Antex is a Spain-based textile manufacturer with deep expertise in synthetic yarns, including polyester, polyamide and polypropylene. It supplies diverse sectors – from fashion to automotive – and is recognized for its commitment to innovation and circularity. Antex integrates post-consumer and industrial textile waste into its yarn production through mechanical and thermo-mechanical recycling.</p>	Post-consumer and post-industrial textiles, especially polyester	Dope-dyed recycled yarns	Thermo - Mechanical Recycling	Spain	Pilot stage	Automotive sector	Focus on black yarns from textile waste
 BY  reo-eco.com	<p>REO-ECO is an advanced textile recycling company producing 100% recycled polyester from PET and textile waste through a fully vertical, in-house process. Their approach delivers premium, traceable yarns and fabrics while minimizing the industry's carbon footprint.</p> <p>BioCulus™, REO-ECO's enzymatic recycling innovation, breaks down textile waste biologically to create high-performance, dope-dyed filament yarns. Initially focused on black yarns, it enables color-stable recycling with strong resource efficiency.</p>	End-of-life polyester textiles	Dope-dyed recycled filament yarns	Enzymatic Recycling	China	Pilot stage	Collaborates with various international brands	Enzyme-based in-house system focused on high-quality black filament yarns
 ravelfuture.com	<p>Ravel transforms blended textile waste into high-quality, drop-in-ready fiber at price parity – enabling circularity at scale through our proprietary purification recycling technology.</p>	Polyester and Poly/ Elastane blended textile waste	rPET pellets	Proprietary Purification Recycling	USA	Pilot stage	Ravel is collaborating with top global brands and manufacturers to bring their technology to market.	Proprietary purification approach to handle blended materials. Closed-loop, low-energy, price-parity with existing recycled materials.
 reju.com	<p>Reju is a materials regeneration company focused on creating innovative solutions for regenerating polyester textiles and post-consumer PET waste. Owned by Technip Energies and utilizing technology originating with IBM Research, Reju is driven by its purpose to unlock infinite possibilities within finite resources. The company aims to establish a global textile recycling circular system to regenerate and recirculate polyester textiles.</p>	100% textile polyester blend waste	rPET pellets (chips)	Chemical recycling	France	Demo stage	Collaborates with Goodwill & Waste Management (USA), Rematrix (Italy), Utexa & Antex (Spain), NFT & Cibutex; ~100+ waste partners contacted	Quality preservation

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 <p>CIRCULOSE® circulo.se/en</p>	<p>CIRCULOSE® is a company revolutionizing the fashion and textile industry with its innovative material, CIRCULOSE®. Designed to tackle the pressing issue of textile waste, CIRCULOSE® is made by recovering cellulose from discarded textiles — offering an alternative to traditional raw materials like cotton, oil and wood.</p> <p>CIRCULOSE® is a 'dissolving pulp' that can be transformed into regenerated fibers like viscose, lyocell, modal and acetate. These fibers are then spun into yarns, woven or knitted into fabrics, and crafted into high-quality garments. The only difference? CIRCULOSE® is made from 100% textile waste instead of virgin resources.</p>	Post-consumer cotton textiles	Circulose® cellulose pulp	Mechanical and chemical (non-toxic) recycling	Sweden	Commercial, scaling up	Collaborates with various local and international brands such as H&M, Levi's, Lenzing;	Pulp for viscose / modal production
 <p>INFINITED FIBER infinitefiber.com</p>	<p>Infinited Fiber Company is a Finnish innovator transforming cellulose-rich waste – like old garments, cardboard and crop residues – into Infinna™, a regenerated fiber with the natural look and feel of cotton.</p> <p>Infinna™ is biodegradable, non-toxic, and recyclable, offering a sustainable alternative to virgin cotton, viscose or polyester. It fits seamlessly into existing textile production and supports closed-loop systems in fashion.</p>	Post-consumer cotton textiles, cardboard, and other cellulose-rich waste	Infinna™ cotton-like fiber	Chemical recycling	Finland	Commercial, scaling up	Collaborates with various local and international brands such as Patagonia, H&M, PVH Corp.	Biodegradable, cotton-like fiber
 <p>EVARNU® evrnu.com/nucycl</p>	<p>Evrnu is a U.S.-based textile innovation company revolutionizing fiber regeneration. Founded in 2014, it transforms discarded textiles – particularly cotton and other cellulose-rich materials – into high-performance regenerated fibers.</p> <p>At the heart of Evrnu's solution is NuCycl™, a proprietary fiber platform that converts worn garments into soft, durable cellulose fibers. Unlike conventional recycled fibers, NuCycl™ can be regenerated multiple times without degrading performance, making it suitable for everything from luxury to everyday apparel.</p>	End-of-life textiles (primarily cotton and other cellulose-based materials)	NuCycl™ regenerated fibers	Chemical recycling	USA	Pilot stage	Collaborates with various local and international brands such as Adidas, Levi's, Target	High-performance, multi-cycle regeneration
 <p>IONCELL ioncell.fi</p>	<p>Ioncell is a Finnish fiber innovation developed at Aalto University that transforms cellulose-rich waste – like wood pulp, recycled cotton or newspapers – into strong, soft and biodegradable textile fibers. The non-toxic process yields a sustainable alternative to cotton and synthetics, suitable for fashion and home textiles.</p>	Cellulose: Cellulose (e.g., wood pulp, recycled cotton, paper waste)	Virgin-grade polyamide (chips/yarns)	Chemical recycling	Finland	Pilot stage	Collaborates with various brands for showcase purposes, including Aalto University. Supported by the Finnish government and EU innovation programs	Monomaterial garment-ready; nylon circularity
 <p>ECONYL® ENDLESS POSSIBILITIES econyl.aquafil.com</p>	<p>ECONYL® yarn, produced by the Italian company Aquafil, is a regenerated nylon 6 fiber made entirely from pre- and post-consumer waste, including fishing nets, carpet flooring, textile scraps and industrial plastic. Through an innovative depolymerization process, the nylon waste is recycled back to its original purity. This results in ECONYL® regenerated nylon being identical to a fossil-based nylon and, as a mono-material, having the potential for infinite recycling without quality loss. Beyond reducing plastic pollution, ECONYL® nylon mitigates climate change by eliminating the harmful environmental impacts associated with traditional oil-based nylon production.</p>	100% Nylon waste: 50% post-consumer (fishing nets and carpet fluff) and 50% pre-consumer waste (industrial plastic and textile scraps).	ECONYL® recycled polyamide 6 fibers with same quality as fossil-based nylon	Chemical recycling	Italy origin and global operations	Commercial, scaling up	Luxury & outdoor brands (Prada, Gucci, Burberry, Stella McCartney, Napapijri, Speedo, Mammut); automotive & interiors (BMW, Mercedes, Interface)	Infinite recyclability of Nylon 6; fully circular model Cradle to Cradle Certified® GRS- certified (Global Recycled Standard)
 <p>loopamid® A BRAND OF BASF loopamid.com</p>	<p>Loopamid is a groundbreaking innovation developed by BASF, introduced as the first polyamide 6 made entirely from post-consumer textile waste through chemical recycling. It represents a major leap forward in enabling circularity for synthetic fibers within the fashion and textile industry.</p> <p>Developed in collaboration with partners in the T-REX Project (Textile Recycling Excellence), Loopamid addresses one of the key challenges in textile-to-textile (T2T) recycling: regenerating polyamide-based textiles into new, high-quality fibers without degradation.</p>	100% post-consumer textile waste containing polyamide 6 (e.g., discarded garments, nylon-based textiles)	Virgin-grade polyamide (chips/yarns)	Chemical recycling	Germany	Commercial, scaling up	T-rex project; Loopamid has been integrated into apparel by Adidas, including their Made to Be Remade program.	Monomaterial garment-ready; nylon circularity