Canopy’s Next Generation Alternative Fibre Technology Partners

This list contains names and contact information of the companies with Canopy policies that are working on, or have developed alternative fibre technologies. Canopy has crafted this directory as a tool to support purchasers of forest products in their search for Next Generation Solutions with a lower environmental footprint.

The Agraloop™ Bio-Refinery by Circular Systems, transforms food crop waste into high-value natural fiber products in a cost competitive and scalable way, providing sustainable and regenerative benefits. The Agraloop™ can utilize a range of feed stocks including oil-seed hemp, oil-seed flax, and rice straw as well as pineapple leaves, banana tree trunks and sugar cane bark. These six crops alone offer more than 250M tons of fiber per year! This is more 2.5 times the current global fiber demand. Tropical crop residues are abundant, far too much to compost effectively. This waste is simply left to rot creating methane pollution and crop disease. We look at these crop residues as valuable resources, rather than waste...Turning problem into solution by converting waste into resource.

Contact: https://www.circular-systems.com/contact/

Bast Fiber Technologies’ (formerly Crailar) performance enhanced, IP protected, sustainable natural fibres are designed to displace synthetic, viscose, and other regenerated cellulose fibres used within the single-use nonwoven industries with dramatically reduced chemical and water use. BFTi’s bast fibres do not contribute to micro-plastic contamination and are compostable at the end of their useful life. BFTi’s fibres are well suited for spun yarn applications ranging from footwear and home furnishings to denim and towels. BFTi has years of experience incorporating bast fibres with cotton, wool, and other textile fibres and spinning them on various spinning frames.

Contact: https://bastfibretech.com/contact-us/

EcoPlanet Bamboo With almost a decade invested into the development of commercial and certified bamboo farms globally, EcoPlanet Bamboo has led the industrialization of bamboo as a viable and environmentally attractive alternative fiber. Their bamboo farms have been developed alongside a commitment to innovative technology development to set a platform for seed to sale solutions for industries and markets that currently contribute to the deforestation of our world’s natural forests. EcoPlanet is working to establish integrated manufacturing components across all current operations, providing the ability to control the sustainability of the full supply chain from seed to sale. Such integration allows their bamboo products to be mass market disruptors for global pulp, paper and textile markets, designed to target everyday consumers and
be available at scale while offering the same supply consistency, quality and pricing as unsustainable alternative products.

**Contact:** +1 847 387 3609 or email info@ecoplanetbamboo.com

**Evrnu** — Seattle-based Evrnu is creating fresh-engineered fibers from 100% post-consumer cotton garments. They are in the pilot stage with a select number of brands and producers. Evrnu transforms old clothing into a new, useful raw material for the creation of premium garments. Evrnu’s patent-pending technology creates a regenerative supply of high quality, bio-based fiber through the renewal of cotton garment waste. This breakthrough brings Evrnu one-step closer to a new textile industry where “waste” is a viable new crop that is harvested and created into long-lasting beautiful garments.

**Contact:** 206.466.5269, Info@evrnu.com

**Infinited Fiber Company** offers a closed loop solution to the textile disposal problem. The technology allows you to turn textile, cardboard and agricultural waste into new natural fiber. It is applicable for exiting pulp and viscose fiber manufactures, thus reducing investment costs. Backed by long-term research and open business attitude with two years of industrial piloting, Infinited Fiber is already combining forces with investors and fashion companies worldwide, through licensing their technology.

**Contact:** https://infinitedfiber.com/our-minds/#contact

**Lenzing** produces a product called Refibra that contains a portion of recycled textile: www.tencel.com/refibra. The Lenzing Group, headquartered in Austria, is a lyocell and viscose producer that stands out for its development of innovative fibers. Lenzing, in cooperation with retail brands such as Inditex/Zara, has developed and is manufacturing viscose and rayon made with approximately 20% pre-consumer recycled cotton. With plans for growth in overall production, leadership to expand and scale up the use of sustainable alternatives will be critical for Lenzing to avoid putting new pressure on endangered forests ecosystems.

**Contact:** +43 (0) 7672 701-0, fibers@lenzing.com

**Nanollose**, based in Australia, is a biotechnology company that is developing a process to repurpose liquid waste from food and beverage industries to produce microbial cellulose that is then regenerated into their Nullarbor fibre. This technology is able to be procured in less than a month. The Nanollose technology has also been designed to be compatible and implemented into existing manufacturing equipment that produces cellulosic based fibre. They have successfully made fibre, fabric and a garment using their technology and are focused on developing a supply chain ecosystem and initial commercial offerings.
**re:newcell**  
re:newcell is a technology company that was founded in January 2012 by a group of cellulose researchers from KTH Royal Institute of Technology and a small investment company. The company has developed a new, patented, recycling process for turning cotton and other cellulosic textiles (such as viscose) into viscose grade dissolving pulp. In 2016 re:newcell invested 48 M SEK (~$5 M USD) to scale up its technology and build a 7000 ton/year industrial recycling plant in Kristinehamn, Sweden. In 2019, re:newcell made its first commercial sales of 100% recycled dissolving pulp, branded CIRCULOSE®, to a number of dissolving pulp buyers. They will launch in retail with selected global brands in 2020. Re:newcell is now looking for investors to fund growth and capacity expansion outside of Sweden.  
Contact: info@renewcell.com

**Tensei**  
Tensei is a R&D materials company, focusing on helping businesses to develop new products primarily from annual crop waste and perennial. Tensei has the necessary tools and partners to take a seed idea and enable it to get to market through a fibre supply chain that has been specifically developed for this purpose. Diverse products developed to date from alternative agricultural fibres include specialty papers and food packaging. Furthermore, Tensei are working with companies to help them to generate value from their own bio-waste streams which in turn could also be added into Tensei pulp fibre supply chain.  
Contact: info@tensei.co.uk

**Tyton Biosciences**  
Tyton Biosciences has a technology to recycle fibers using water as a solvent, making their tech one of the cleanest in the recycling industry and cost competitive with virgin materials. Tyton has developed a textile recycling solution that makes high-grade dissolving pulp. This pulp can be made into viscose and Lyocell type fabrics. They can environmentally and economically process pure cotton and poly-cotton blends, shifting the linear fashion system to a circular one. The technology can also recycle polyester or poly-cotton blends into the building blocks of virgin-grade polyester. Using their clean process, they reduce polyester to its monomers (terephthalic acid and ethylene glycol), which allows them to recover value from old apparel and textiles.  
Contact: 434-793-9100, https://www.tytonbio.com/contact-us/

If your company has an innovative, low footprint technology that provides a recycled or forest-free alternative for dissolving pulp, viscose or rayon, contact Canopy to become join our cadre of Next Generation Solutions providers.