DOUBLING THE VALUE FROM WOOD WITHOUT HARVESTING MORE TREES

BioCircleToZero – VETURI PROGRAM

ROADMAP

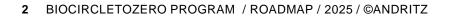
CHALLENGE: UNLOCKING THE UNUSED POTENTIAL OF FINNISH FORESTS

Finnish forests are a valuable but limited resource, and protecting their biodiversity is essential. To create a more resource-efficient and sustainable forest products industry, we must develop and commercialize high-value bio-carbon products. In long-term this will also support Finland's global position in the forest industry and drive economic growth.

40 - 50 % of current pulp mill imput biomass is burned for power, landfilled or released into nature

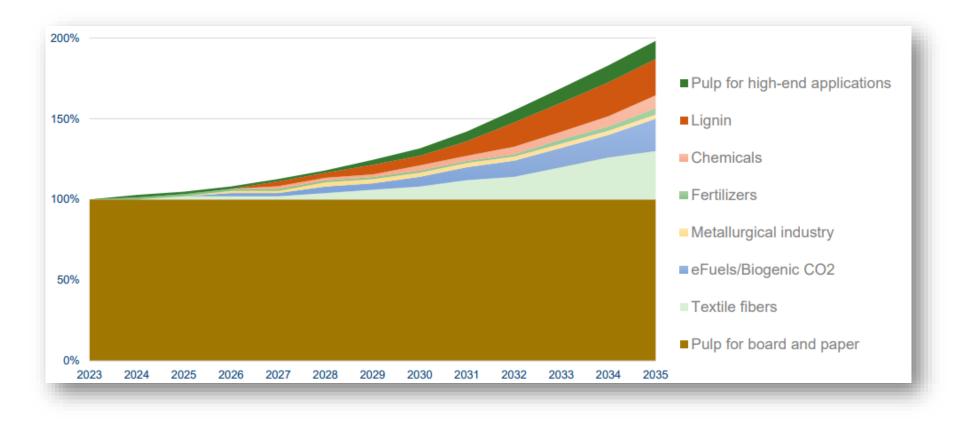
This fraction to produce textiles, biofuels, e-fuels, and biobased chemicals is unused.

Paper and board (\in 5.9 billion), pulp (\in 2.6 billion), and sawn timber (\in 1.9 billion)—are among Finland's top six export categories.



MISSION: DOUBLE VALUE FROM WOOD WITHOUT HARVESTING MORE TREES

To maintain Finland's global position in the forest industry and drive economic growth, we must support the industry in tapping into this unused potential



LET'S GO: ANDRITZ-LED BIOCIRCLETOZERO R&D PROGRAM IS SELECTED AS BUSINESS FINLAND VETURI PROGRAM IN 2025

Our commitment

"At ANDRITZ, we are committed to helping the forest products industry drive the green transition while ensuring its long-term competitiveness." Kari Tuominen, President & CEO, ANDRITZ Oy

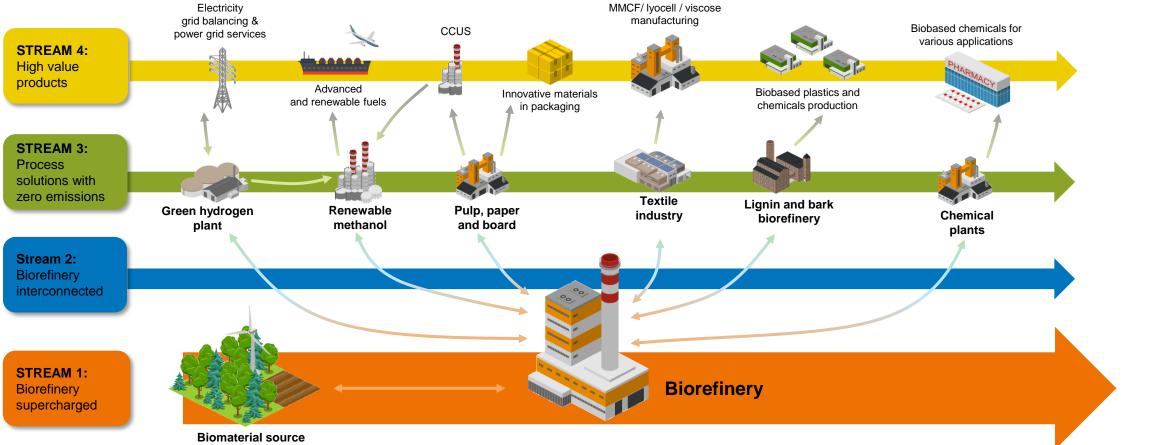
Funding

- Business Finland has granted ANDRITZ 10 million euros in funding for the BioCircleToZero program.
- An additional 20 million euros will be provided by Business Finland to partners contributing to the program.

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STREAM 1: Biorefinery Biorefinery supercharged

TARGETING FOR A MORE RESOURCE-EFFICIENT FOREST INDUSTRY





ROADMA	Ρ		2025	2026	2027	2028	2029	
ANDRITZ effort	Stre	eam 0: Ecosystem management						
Ecosystem effort	STREAM 1	BIOREFINERY SUPERCHARGED	WP 1.1: Increased resource use efficiency					
			WP 1.2: Process improvements in biorefinery					
			WP 1.3: Smart biorefinery					
			:	WP 1.4: E >	panding biorefine	ery inputs		
	STREAM 2	BIOREFINERY INTERCONNECTED	WP	2.1: Interconnec	ing the main stre	ams		
			WP 2.2: Business development for integrated biorefinery and P2X					
				WP 2.3: Conso	rtium creation for interconnectio		em	
	STREAM 3	PROCESS SOLUTIONS WITH ZERO EMISSIONS						
				WP 3.1: Power to X platform				
			WP 3.2: Biomass to X platform					
			WP	3.3: Holistic integ	gration the P2X+B	2X platforms to a	biorefinery	
	STREAM 4	HIGH VALUE PRODUCTS		WP 4.1: High value bioproducts				
			WP 4.2: High value fibre products from pulp					
			WP 4.3: Textile fibres development					
				WP 4.4: Lignir	and bark biorefi	nery		



KEY OBJECTIVES OF THE PROGRAM

1. Enhancing utilization of underutilized stream materials

The program focuses on optimizing the use of biomass and renewable electricity to create new high-value products and services, reducing emissions and waste.

2. Developing new technologies and processes

The program aims to innovate and implement new technologies for biorefineries, including advanced digitalization, automation, and integration with other industries.

3. Creating a sustainable biorefinery ecosystem

The program seeks to establish a collaborative ecosystem involving industry leaders, research institutions, and innovative companies to drive the green transition and enhance the competitiveness of the Finnish forest products industry.

4. Reducing environmental impact

The program aims to achieve zero emissions and zero waste in biorefinery operations, contributing to global environmental sustainability

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JOIN US ON THIS JOURNEY TOWARDS ZERO-EMISSIONS

Would you like to join the ecosystem as a partner?

ANDRITZ's BioCircleToZero program brings together Finnish industry, research, and innovators to develop sustainable biorefinery solutions that boost the forest sector's competitiveness.

Running from 2025 to 2030, the program is open to partners and offers up to €20 million in Business Finland funding to support innovation and growth.

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