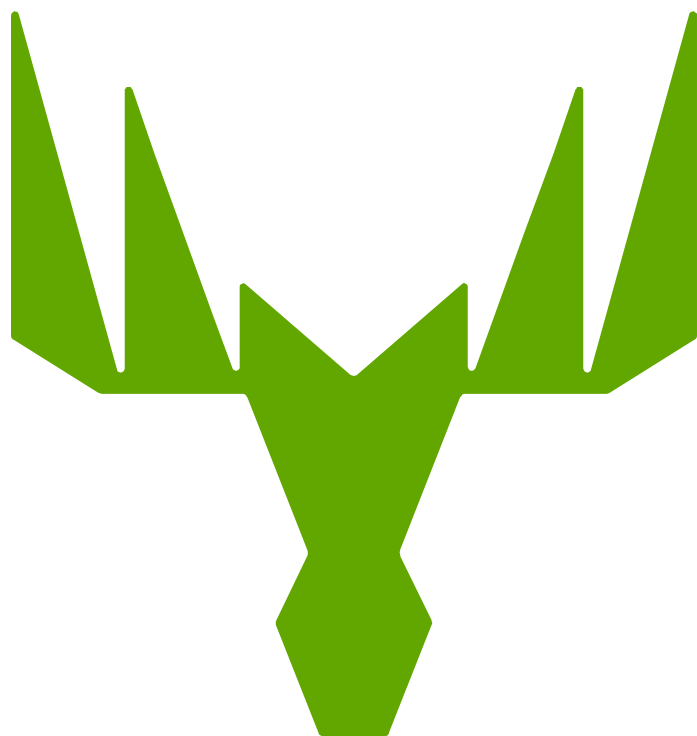






Metsä Group

Bioproduct mill concept

Matti Toivonen



Metsä Group

Sales* EUR 5.8 billion | Personnel 8,800

METSÄLIITTO COOPERATIVE | The Group's parent company | Owned by over 90,000 Finnish forest owners

METSÄ FIBRE



**Pulp and
sawn timber**

Sales
EUR 2.6 billion

Personnel
1,400

METSÄ BOARD**



Paperboard

Sales
EUR 1.8 billion

Personnel
2,000

METSÄ TISSUE



**Tissue and
Greaseproof
papers**

Sales
EUR 1.1 billion
Personnel
2,400

METSÄ WOOD



Wood products

Sales
EUR 0.5 billion

Personnel
1,600

METSÄ FOREST



**Wood supply and
forest services**

Sales
EUR 2.5 billion

Personnel
600

METSÄ SPRING | Innovation Company

Metsä Fibre – sustainable growth from renewable wood raw material



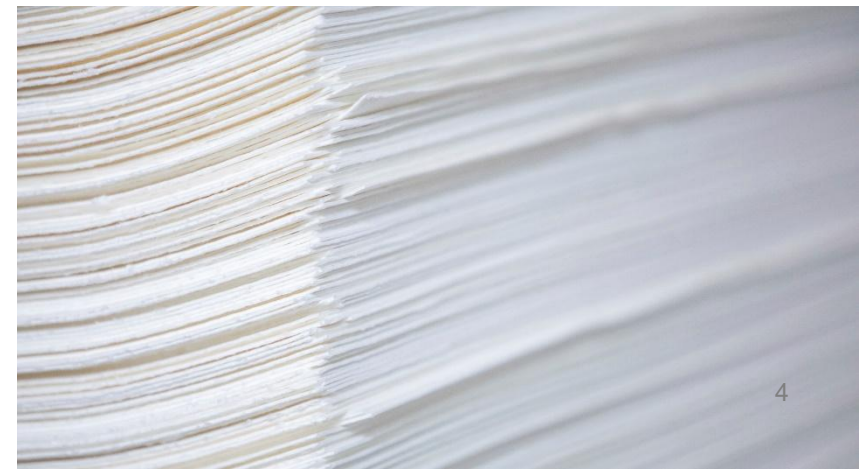
#1 Leading producer of bleached market softwood pulp and a significant sawn timber producer



Our products

Our main products are high-quality bleached softwood and birch **pulp**, as well as spruce and pine **sawn timber** made from northern wood. We also produce **bioenergy** and **other bioproducts**.

Our products replace fossil raw materials and have a long-term carbon sequestration effect.



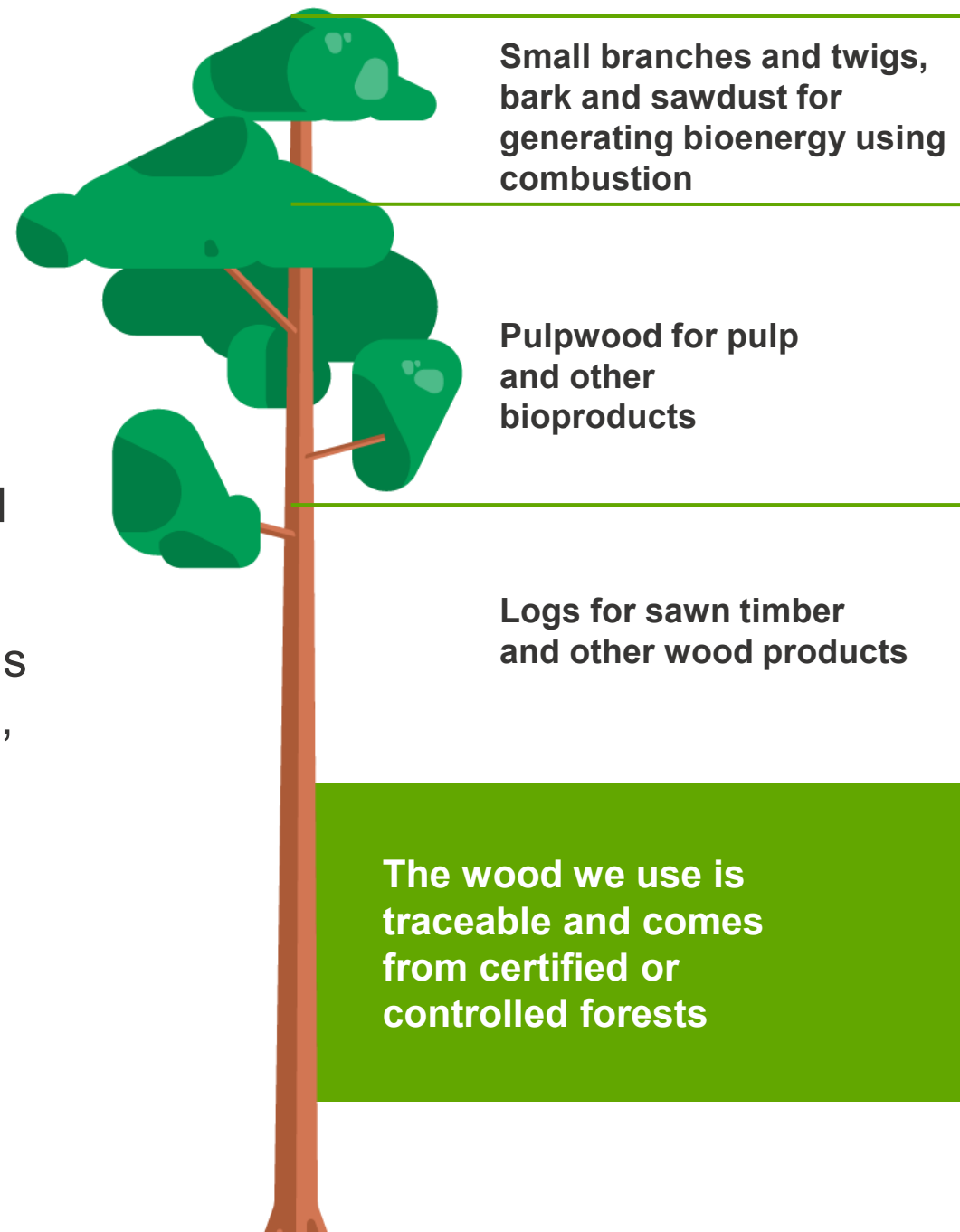
1,400
professionals

4 Pulp / Bioproduct mills
4 Sawmills

Our sales in 2025
EUR
2.6 billion

Wood from **sustainably managed** forests

- The wood raw-material we use is acquired from areas where forests grow more than they are used
- 94 % of the wood Metsä Fibre uses is certified
- We use of every part of the tree for the purpose it is best suited for – logs are delivered to our sawmills, while pulpwood is used for pulp, biochemicals and further processing into other bioproducts

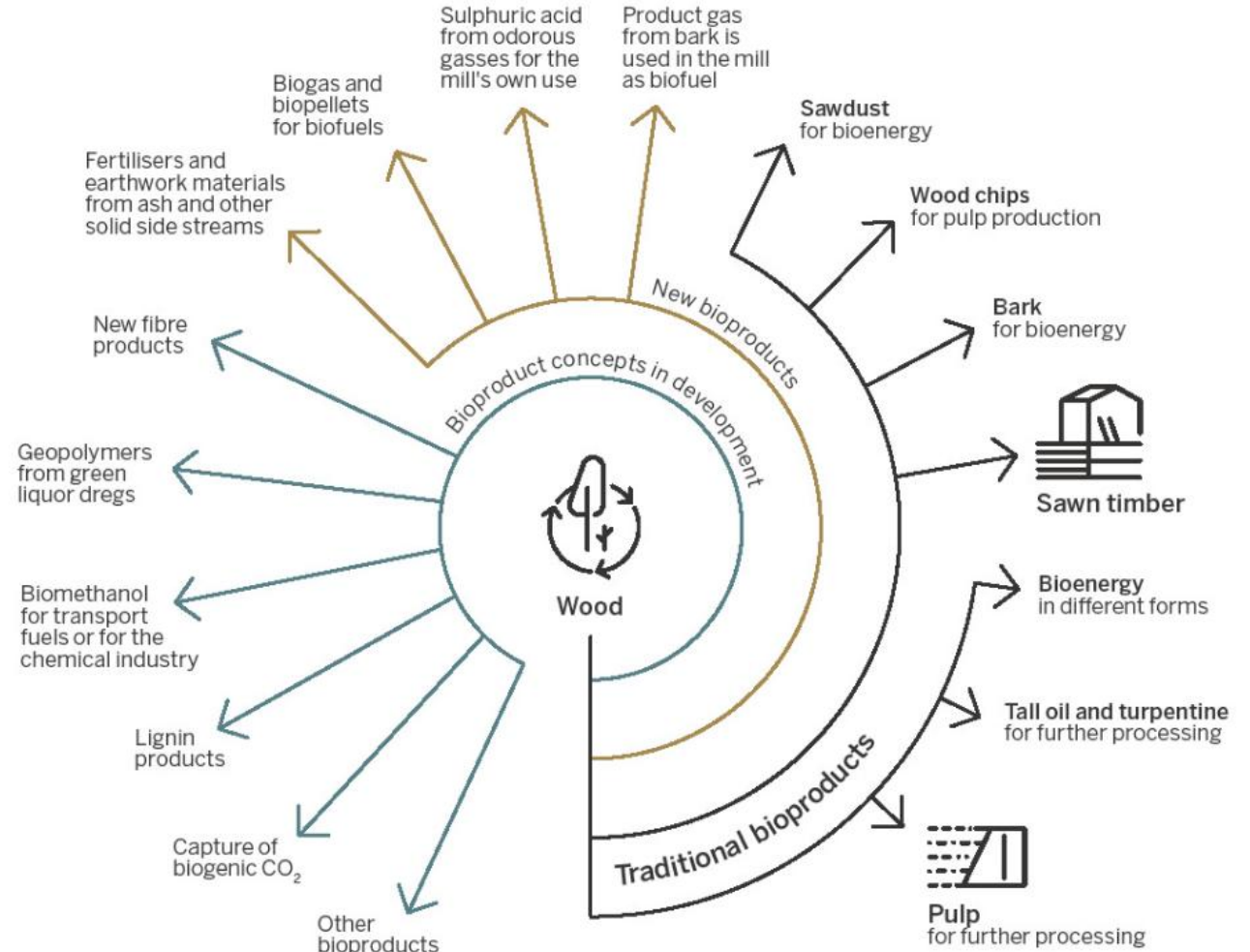


Our unique bioproduct mill concept

- Our concept for renewing and developing our pulp mills
- Continuously converting side streams from pulp production into bioproducts that offer higher added value
- Our industrial sawmills strengthen our bioproduct concept

Our resource efficiency target by 2030:
0% landfill waste

Utilisation of main and side streams in our bioproduct mill concept



New bioproducts



Metsä LigO™

- In pulp production, lignin is separated from the wood into black liquor in the chemical cycle and used as bioenergy. Lignin could also be used in chemical and material applications to replace fossil based components.
 - Potential end uses of oxidized lignin are e.g. concrete plasticizers and other dispersants
- The demo plant for lignin refining, built by Metsä Fibre and ANDRITZ in connection with the Äänekoski bioproduct mill, started up in early 2026.
 - The plant's nameplate capacity is two tonnes of a new type of lignin product per day



Methanol refining

- Raw methanol is a side stream of pulp production. It is currently used as biofuel in the mill and in the production of condensed electricity
 - Veolia is currently building a crude methanol refinery in connection with Metsä Fibre's Äänekoski bioproduct mill
 - The refinery, operated and owned by Veolia, is closely integrated into the bioproduct mill's processes
- The production of biomethanol increases the refining value of methanol and it can be used, for example, as transport fuel or as a chemical



Light fibre material

- Pulp-based light fibre material can be used as insulation component, protective material or interior design element
 - The material allows tuning of technical properties and can be used in combination with other materials
- Light Fibre Material brings softness, comfort and sound absorption to products
- We are developing the product to be fully bio-based and recyclable



Biodegradable 3D packaging product

- The production of wood-fibre-based packaging solutions is being tested at a demo plant located at the Äänekoski mill site. The demo plant is a joint initiative of Metsä Spring and Valmet.
 - Alongside the development work at the demo plant, Metsä Group decided to invest in first commercial Muoto™ mill in Äänekoski.
- The recyclable and biodegradable 3D fibre product, branded as Muoto™, is produced from wet wood-fibre pulp without intermediate phases. Its lightweight structure and new production technology minimize the need for energy and raw materials, simplifying supply chain logistics.

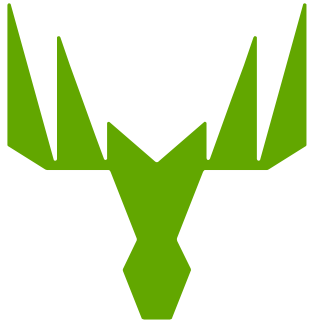
The new 3D fibre product has potential in the large-volume food packaging market, which is continuously looking for more sustainable alternatives to plastic. The first Muoto products are currently in the market testing phase.



Metsä Group is planning a commercial plant for **wood-based carbon capture** in Rauma

- Metsä Group has started a pre-engineering project for the first commercial biogenic, i.e. wood-based, carbon capture plant.
 - The plant would be located at Metsä Group's Rauma pulp mill in Southwestern Finland, and its nominal capacity would be approximately 100,000 tonnes of captured wood-based carbon dioxide per year. Carbon dioxide would be captured from the mill's flue gases.
 - The planned capacity of this commercial production plant would be the first step towards a larger scale: the long-term capture potential of wood-based carbon dioxide at Metsä Group is several million tonnes per year.
 - Carbon dioxide can be used, for example, as a raw material in the chemical and fuel industries, thus replacing fossil-based raw materials and products.
- The application for an environmental permit for the plant was submitted in December 2025, and the official permit decision is expected during 2026. The project's main uncertainty is related to market developments, as industrial value chains that utilise wood-based carbon dioxide are still being built. The emergence of new markets requires simultaneous investment decisions from multiple operators. This potential investment by Metsä Group could help accelerate the development of an entirely new value chain.





Metsä

**Growth, with
a future**