



Waste Wood Shredding Line

Norsk Gjenvinning Case Study





Spikerrens

Finstuff

NC

STEEL



In 2022, Norsk Gjenvinning (NG Group), the Nordic region's leading environmental services provider, set out to transform its waste wood operations in Oslo. Managing over two million tonnes of waste annually, NG plays a pivotal role in turning discarded material into valuable secondary raw resources for industries ranging from energy production to furniture manufacturing. But one part of its process needed a major upgrade.

The existing shredding line was no longer keeping pace with growing demand. NG wanted more than just higher capacity – they needed a system that would deliver precision, stability, and the ISO P63 standard for chip size on every batch. Oversized pieces and excessive fines were eroding product value, while downstream customers needed absolute consistency. On top of that, the new line would have to be installed inside a fully operational facility, right next to the old line, with minimal disruption to daily throughput.



Balancing precision, production, and performance

Azortum's task was clear: design, engineer, and install a high-performance shredding line capable of processing up to 35 tonnes per hour – 90,000 tonnes annually – without slowing NG's ongoing operations.

We began by mapping the entire installation to fit seamlessly within the existing space. The solution started with a primary shredder to reduce incoming wood waste to a uniform preliminary size. From there, a magnetic separator removed ferrous metals, followed by a screening unit to capture the target fraction and return oversized material for reprocessing. An eddy current separator removed any remaining non-ferrous metals, leaving a clean, market-ready product.

A key innovation was the system's ability to control shredding intensity, minimising the creation of low-value fines and maximising the yield of high-quality wood chips. Operators could easily adjust screen hole sizes to meet changing production needs.



Three weeks. No downtime.

The entire project was completed in just three weeks, with NG's waste wood intake and output maintained throughout thanks to a temporary production line set up alongside the installation site. Through phased commissioning and close coordination between Azortum, NG, and other contractors, the transition was seamless.

Results that matter

The new line now produces ISO P63-grade chips with consistent quality, supporting both energy recovery and material reuse. This has strengthened NG's reliability with downstream customers and reinforced their position as a trusted supplier in the Nordic region's circular economy.



Technical Project Manager Peter Sjølie Callister summed it up:

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Azortum has been very responsive when we have reached out... We have the impression that they really want us to be satisfied in the end with the product or the system they have delivered.

With their upgraded facility, NG Group is ready to meet the region's rising demand for high-quality secondary materials – delivering them efficiently, sustainably, and without compromise.



THROUGHPUT CAPACITY

Handles up to **35 tonnes per hour** (depending on material composition), reaching an annual volume of **90,000 tonnes** of waste wood.



OUTPUT QUALITY

Consistently delivers **ISO P63-standard wood chips**, suitable for both **energy recovery** and **high-grade material reuse**, including furniture manufacturing.



INSTALLATION SPEED

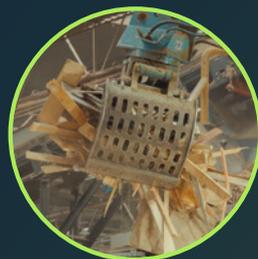
Fully installed and commissioned in **three weeks**, with **zero production downtime** thanks to a parallel temporary processing line.



Why Choose Azortum for Your Waste Sorting Project

From A to Z – we'll sort it out.

We don't just supply machinery – we deliver turnkey waste sorting and bulk material handling solutions designed around your business, your space, and your operational priorities.



We talk business.

We start by understanding your operational goals, financial targets, and compliance requirements – then engineer a solution that meets them in both the short and long term.

We are dedicated to you.

From the first consultation to post-installation support, we work for you. Our team stays engaged to ensure your system runs reliably and delivers the performance promised.



We are agile.

Independent from fixed equipment brands, we select and integrate the most suitable technologies for your specific material streams, capacity needs, and footprint limitations.

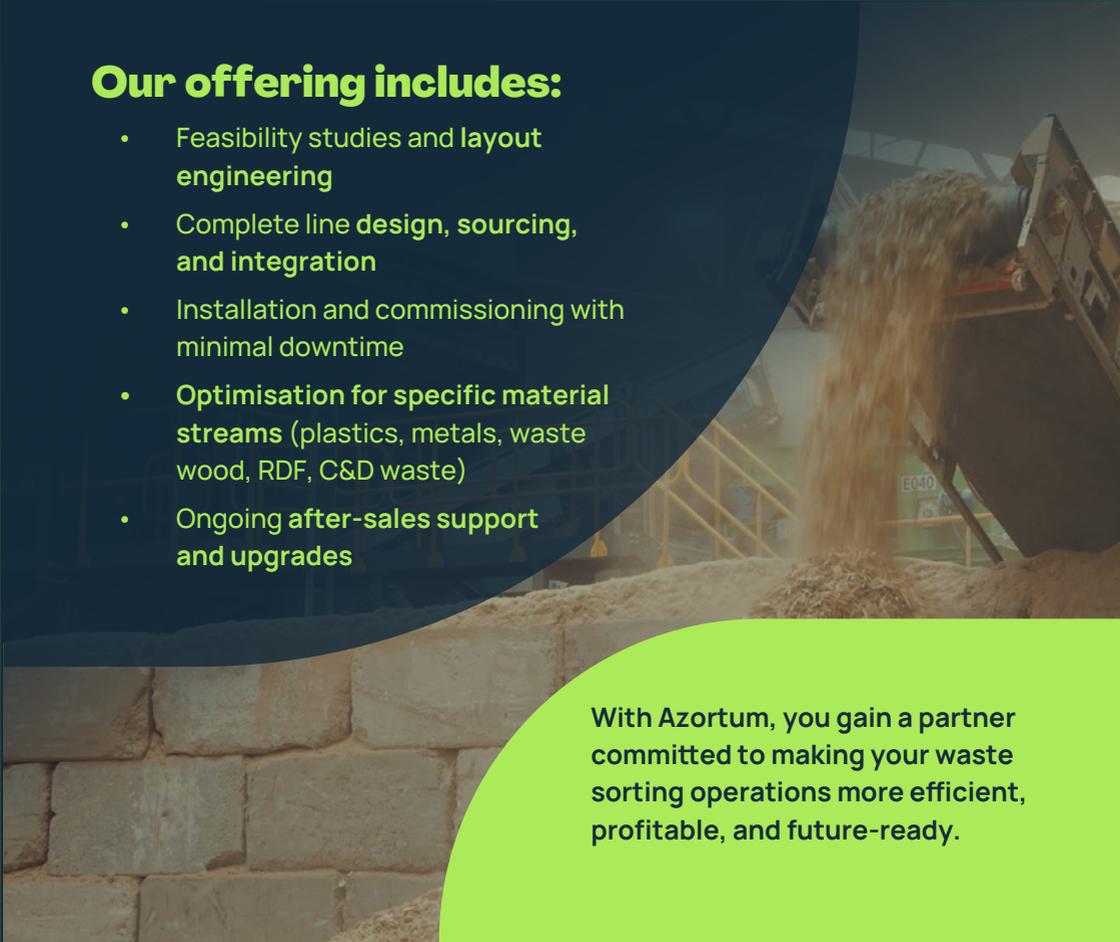


Proven across industries.

Trusted by leaders such as Norsk Gjenvinning, Veolia, Ragn-Sells, and Jämtkraft, we have delivered complex, high-value projects across the Nordics, Baltics, and Central & Eastern Europe.

Our offering includes:

- Feasibility studies and layout engineering
- Complete line design, sourcing, and integration
- Installation and commissioning with minimal downtime
- Optimisation for specific material streams (plastics, metals, waste wood, RDF, C&D waste)
- Ongoing after-sales support and upgrades

A large background image showing industrial machinery in a factory setting. A conveyor belt is dumping a large amount of wood chips into a large pile. The machinery is dark-colored with some yellow accents. The scene is dimly lit, with some steam or dust visible in the air.

With Azortum, you gain a partner committed to making your waste sorting operations more efficient, profitable, and future-ready.



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