



MSW & Packaging Waste Sorting Line

Eco Baltia Case Study





SCOPE

Advanced municipal solid waste (MSW) and packaging waste sorting system, designed, installed, and commissioned by Azortum



CAPACITY

Processes 30 t/h of MSW and 7 t/h of packaging waste, totalling up to 45,000-100,000 tonnes annually, depending on input material availability.



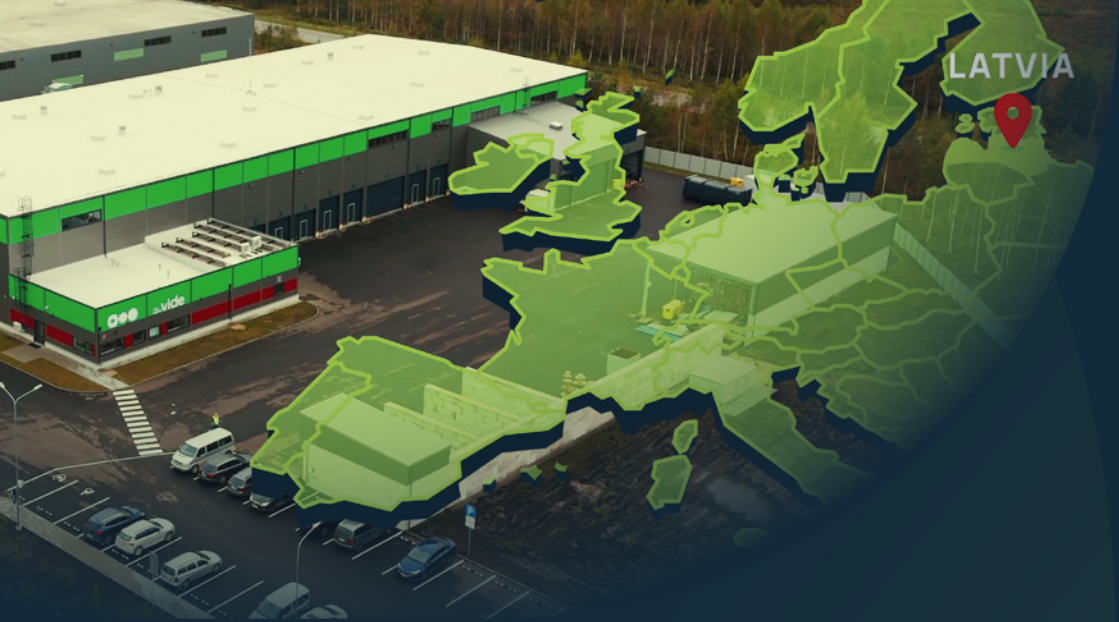
TECHNOLOGY

Avoids intensive shredding, using adaptive modular equipment and advanced optical sorting



IMPACT

Higher recovery rates, improved material purity, lower energy use, and alignment with EU sustainability targets

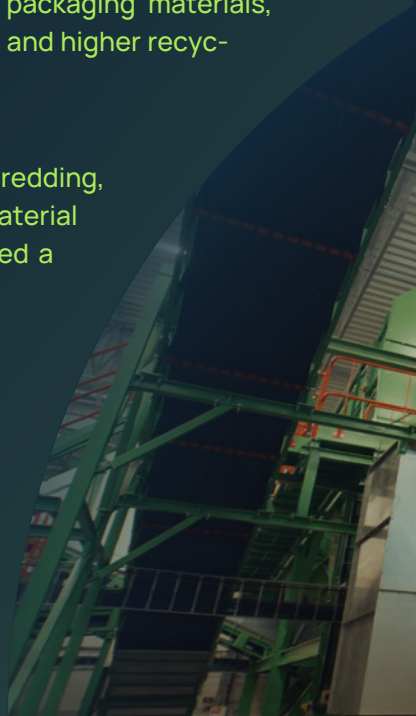


Rising demand for sustainable waste management

As Latvia's leading waste and environmental management company, Eco Baltia was facing a challenge shared by many in Europe's waste sector: growing volumes of municipal solid waste and packaging materials, combined with tighter environmental regulations and higher recycling targets.

Traditional plants, relying heavily on intensive shredding, could no longer deliver the required efficiency, material quality, or energy performance. Eco Baltia needed a solution that would:

- Improve material recovery rates
- Meet strict EU recycling standards
- Reduce operational energy consumption and processing waste
- Handle both municipal solid waste and light packaging streams efficiently



A tailored high-throughput solution

Azortum designed and delivered a fully integrated MSW and packaging waste sorting system, engineered to process 30 tonnes of municipal solid waste per hour alongside 7 tonnes of packaging waste per hour. Rather than breaking everything down with energy-intensive shredders, the system uses a modular, adaptive design – directing material to the right processes from the start, reducing unnecessary.

The sorting line is controlled by a SCADA system that provides operators with a visual overview, tracks performance and power use, and supports better real-time decision-making.



→ Area 3200 sqm

→ Installed power 545 kW

Output materials:

- Fe-metal
- Non-Fe metal
- Paper mix
- Film clear
- Film mix
- PP
- PET clear
- PET mix
- HDPE
- Tetra
- RDF







Blending automation with human expertise

The new line combines automated precision with the adaptability of manual quality control:

1

MANUAL PRE-SORTING

removing oversized and non-compliant items like bricks, electronics, and hazardous waste.

2

SCREENING UNITS

separating waste by size for efficient downstream sorting.

3

OPTICAL SORTERS

high-speed detection to identify and separate HDPE, PET, PP, Tetra Pak, film, paper, and cardboard.

4

AUTOMATED FRACTION HANDLING

preserving material integrity while streamlining bulk movement.

5

FINAL MANUAL QUALITY CHECK

ensuring every outgoing fraction meets high-purity standards.

Future-ready performance

Eco Baltia's facility now operates as one of the region's most advanced waste sorting plants, setting a benchmark for sustainable MSW and packaging processing in the Baltics.

- **ADVANCED RECOVERY EFFICIENCY**

Optical sorters and optimized flow design increase yield, reduce bottlenecks, and deliver cleaner fractions.

- **LOWER ENERGY USE**

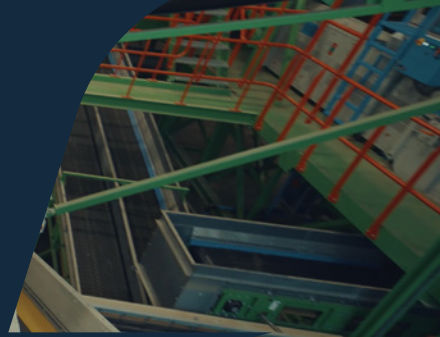
Eliminating intensive shredding reduces energy consumption and operating costs while lowering the plant's environmental footprint.

- **SUSTAINABILITY IMPACT**

Higher recovery rates reduce landfill dependency and boost the resale value of recyclables, fully supporting Latvia's circular economy ambitions.

By integrating cutting-edge sorting technologies with smart, adaptable design, Azortum has given Eco Baltia a facility ready to meet both today's operational needs and tomorrow's environmental demands.





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, 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



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



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