



Packaging Waste Sorting Line

Ecoservice Case Study



AUTOSORT

830C

650C

4



TIMELINE

Completed in **less than 12 months**, despite complex spatial and scheduling constraints



CAPACITY

Processes up to **12 tonnes** of packaging waste per hour



SORTING CAPABILITY

Separates waste into **10 distinct material fractions**



RECOVERY BOOST

Raw material recovery increased by **up to 100%**



In 2023, a devastating fire destroyed Ecoservice's packaging waste sorting facility in Vilnius. For Lithuania's leading waste management company, this was more than the loss of a plant — it was a blow to the country's recycling infrastructure. Ecoservice knew it had to rebuild quickly, but not simply to replace what was lost. The vision was clear: create a new, modern sorting line with higher capacity, greater automation, and improved fire safety. This had to be done within a tight schedule and the footprint of an existing building under construction.

The challenge was formidable. The €18 million investment had to deliver a line capable of processing 12 tonnes of household packaging waste per hour and sorting it into at least 10 distinct material fractions. Manual labour needed to be minimised, material purity maximised, and every component integrated into a fixed space without increasing height, width, or length.



Building under pressure

From the very start, this was a race against the clock. The target completion time was 18 months, but Ecoservice wanted results faster. This meant construction, engineering, and installation had to happen in parallel. Equipment deliveries and mounting took place even before parts of the building were complete. In one case, a drum screen had to be lowered through a partially finished roof with only centimetres to spare.

Compact design, complete solution

Azortum's response was to design a compact yet high-capacity sorting system, optimising every metre of available floor space. The line integrates a drum screen, optical sorters, eddy current separators, and magnetic separators into a seamless flow. Advanced fire detection and suppression systems were embedded from the outset, meeting stringent safety standards.

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 2900 sqm



Installed power 870 kW

Output materials:

- Fe-metal
- Non-Fe metal
- De-ink paper
- Paper mix
- Film clear
- Film mix
- PP
- HDPE
- PET clear
- PET mix
- HDPE
- Tetra
- PS
- RDF





The result is a plant that:

- Sorts packaging waste into 10 clean fractions
- Increases operational efficiency threefold
- Doubles raw material recovery while reducing manual handling

This flexibility means Ecoservice is prepared for the region's future recycling demands, with reliable, continuous operation under heavy load.



Twelve months, ahead of schedule

Despite the constraints, the new line was completed and ready for testing in less than 12 months, a remarkable achievement considering the project's complexity. This was made possible by tight coordination, adaptive problem-solving, and a shared commitment between Ecoservice and Azortum to deliver on every promise.



Partnership in action

Andžej Juchevič,

Technical Manager at Ecoservice,
reflects on the collaboration:

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Azortum listened to what we needed and came up with one of the best possible solutions. They provided great quality for the money.

From the ashes of the old facility has risen one of the most advanced packaging waste sorting lines in the Baltics — built to process more, recover more, and help Lithuania move closer to a truly circular economy.





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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