



Extremely robuste RDF processing

An overall system - planned down to the finest detail

The Bulgarian company Ecoinvest Assets invested in a RDF processing plant from Vecoplan - the central element is a robuste pre- and re-shredding line.

RDF from domestic and industrial waste

Ecoinvest Assets is specialised in plastic recycling as its core business. With its strategy focussed on implementing a green economy, the company has strengthened its position in the waste market segment by creating a sustainable RDF processing plant.

Vecoplan was selected as the solution provider and technology supplier for the project. In addition to its extensive project and engineering experience, the tried and tested, robust Vecoplan components played a decisive role in reaching this decision.

The project requirements included:

- Adaptation to difficult, very moist, heterogeneous domestic and industrial waste
- Assurance of high availability despite extraneous materials in the input material
- Optimum RDF fuel quality results
- High overall profitability from maximum value creation and energy efficiency



INPUT material

- Domestic waste (very moist, sometimes mixed with extraneous materials)
- Industrial waste



OUTPUT material

- With defined shredding and particle size < 30 mm
- Free from extraneous materials
- Optimum RDF fuel quality



Vecoplan throughout

With its detailed engineering input, Vecoplan first of all designed a complete system for Ecoinvest. Material tests were carried out from the outset to adapt the system to the specific input material on site. A material mix was jointly defined so that the system could be designed specially for the input material and to achieve optimum results for the quality of the RDF output.

The Vecoplan services included:

- Design of a robust, complete system offering high availability
- Engineering and project management
- Supply of all central components for the system
- Involvement of local, Bulgarian trades (steel construction, assembly firms)
- Supervised assembly and installation
- Commissioning

Continuous Vecoplan Live Service

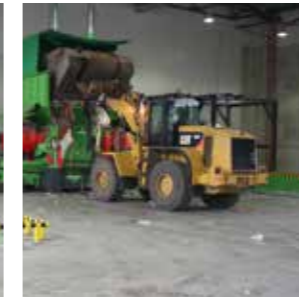
Since putting it into operation, the Ecoinvest plant has run continuously and reliably. The company uses the Vecoplan® Live Service support for all service and maintenance work. It is the first online tool in the industry to offer live chat with service specialists, online conferences and virtually on-site access to the system around the clock.

Key features:

- Service Request
- Analyse Tool
- Conference Center
- Service Report
- Maintenance Manager
- Service App, Smartglasses, Alarm Manager

Consistently robust technology

The Ecoinvest RDF processing counts on maximum value creation over the entire pre- and re-shredding process and the additional process steps of material reprocessing.



Pre-shredder WZ

- Efficient HiTorc drives
- Shredding < 250 mm
- Robust machine design
- Extraneous material detection

Overbelt magnetic separator VÜB

- Safe metal separation after pre-shredding
- Electromagnet can be deactivated for maintenance work



Re-shredder VAZ

- Two very robust, high-performance re-shredders
- Extraneous material-safe thanks to pneumatically pre-tensioned, lowerable "Flipper" counter-knife
- With energy efficient HiTorc drives (each 247 kW)



Air separator

- Separates out extraneous materials and the heavy fraction with low calorific value
- Optimisation of fuel quality by separating out the heavy fraction
- Protects the re-shredder from extraneous materials
- Good, reliable separation of fractions

Other components:

- Trough conveyor belts VFB
- Container loading with rotary plate and reversing belt
- Scraper chain conveyor KKF

Objectives achieved!

With the highly successful implementation of the Ecoinvest project, a groundbreaking RDF processing plant has successfully been created for the entire Eastern European area. All customer requirements were implemented down to the last detail. Ecoinvest specifically benefits from this project in terms of:

A balanced and intelligent
engineered installation

Perfectly coordinated components
and processes

Robust technology with a high level
of availability and which can handle
extraneous materials

High output quality

Low energy consumption

Profitable overall efficiency with
an optimised cost-benefit ratio



„As our solution provider, Vecoplan® has designed and implemented an optimised and complete system for us down to the very last detail. The shredding concept is a complete success in terms of output quality, performance and efficiency.

We are very happy with the Vecoplan® RDF processing plant. The system has been continuously reliable. The Vecoplan® Live Service offers the best support for all service and maintenance work.“

Emil Dichev, Managing Director

Vecoplan®

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