

**77** **NOVO MESTO - SLOVENJA**

Year	2021
Client	CGP d.d.
Operator	CERO-DBK
System description	Composting, stabilization, raw RDF production and odour control
Waste processed	Organic source separated waste, mixed municipal waste and bulky waste
Plant capacity	25,000 t/year



CGP d.d. awarded ATZWANGER Spa with the design and implementation of automated electro-mechanical works for the production of raw Refuse Derived Fuel (RDF) and compost.



The project involves the construction of a facility with one section for aerobic stabilization of organic source separated waste and another section for stabilization and mechanical treatment for mixed municipal waste aimed at the recovery of material.

The proposed technology is designed to maintain the separation of the treated flows.

Two sections are foreseen:

- A section for the stabilization and production of a raw refuse derived fuel, characterized by an initial phase of mechanical pre-treatment, a second phase of stabilization inside biotunnels and a subsequent final phase of sorting; an additional maturation area is dedicated to the undersized material, that will be use as a daily capping of the landfill.
- A section for composition, characterized by an initial phase of mechanical pre-treatment, a second phase of composing inside

biotunnels, and a final phase of refinement. The second phase is characterized by the stabilization of the organic matrix and results in a final mature raw compost with a higher content of humid substances. The final phase of refinement is obtained with a trommel screen with in-line deplastification unit with the aim of improving the quality of the final product.

The handling of materials in the two sections is done exclusively with the use of wheel loaders.

The final products to be subjected to recovery activities are:

- Raw fuel from waste to be used in "waste-to-energy" plants;
- Mixed compost soil amendment to be used in agriculture.

The plant is equipped with suction and odour control systems that use the biofiltration process and guarantee maximum environmental parameters.

