

25 **ROSSANO (CS) ITALY**

Year	2001
Client	TM.E. SpA - TERMOMECCANICA ECOLOGIA
Operator	TM.E. SpA - TERMOMECCANICA ECOLOGIA
System description	Sorting and baling
Waste processed	Commingled recyclables (paper, plastic and metals)
Plant capacity	3 t/hour



The facility is designed to recover commingled recyclable materials deriving from source-separated municipal waste. Sorting is done both automatically and manually.



This material recovery facility is designed to process commingled recyclable materials deriving from source separation of municipal waste.

A belt feeder, located in a receiving building whose floor is set at a higher level than that of the sorting building, unloads the material to be treated directly on the sorting conveyor. The conveyor is in a room where operators perform manual sorting of recyclable materials that are dropped in the three underlying bunkers made of reinforced concrete.

The recyclable materials, separated in the sorting room, are cardboard, paper and plastics. They are loaded on the baler feeder by means of a wheel loader.

The hydraulic baler is of the continuous type and is provided with an automatic bale-tying system. A forklift handles the bales.

At the end of the sorting conveyor there is a magnet for the separation of ferrous cans. A conveyor belt transfers the remaining flow to an induction separator, which automatically separates aluminum cans.

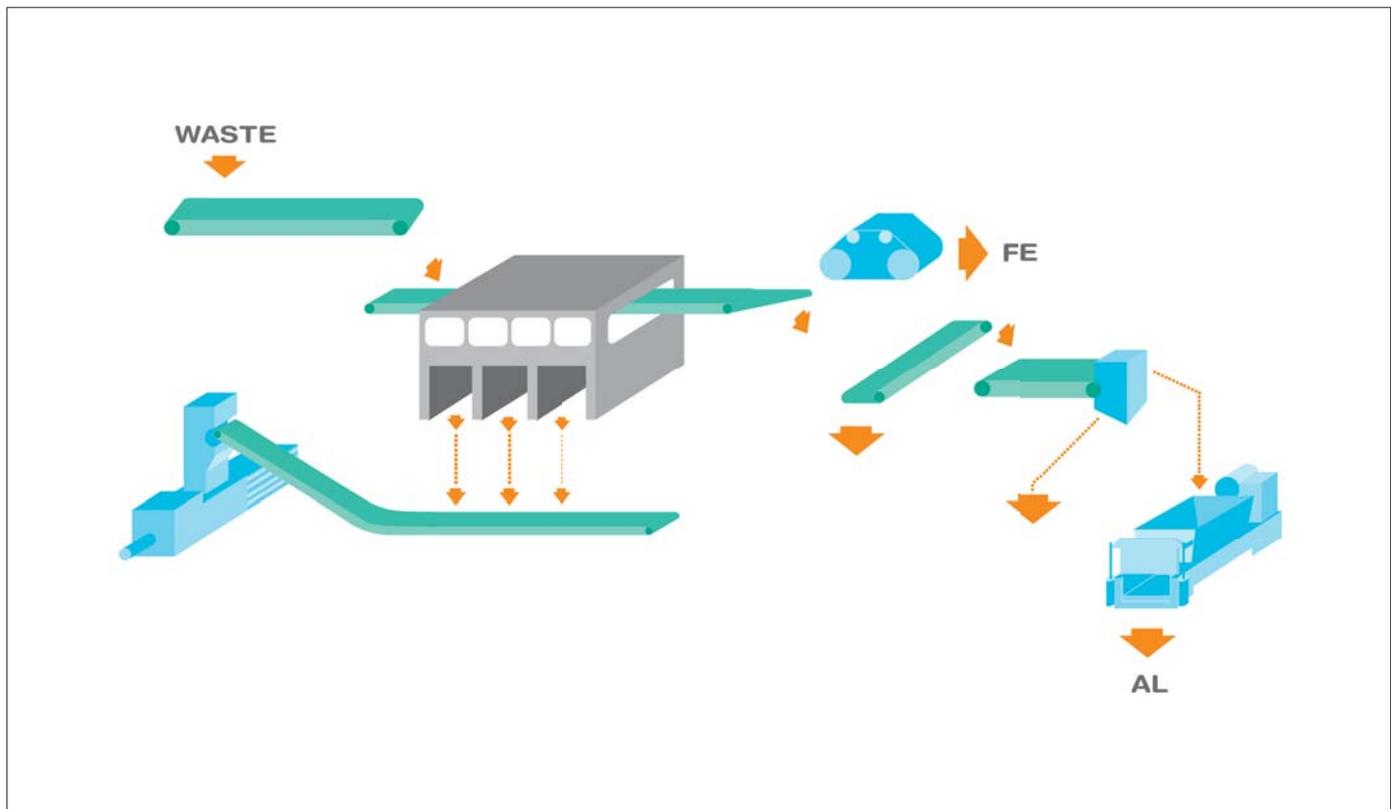
A second, smaller baler processes metals.

The conveyor feeding the non-ferrous metals separator can be reversed, so that it is possible to by-pass the separator by directly sending the material to the last storage bunker. This design makes the plant more flexible because operations can be adjusted to suit the type of treated material by choosing positive or negative manual sorting, according to need.

Negative sorting means that the material to be recovered is left on the sorting belt and reject materials are picked off the belt. This increases the sorting line's throughput capacity.



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ATZWANGER SpA . Division Ecomaster Atzwanger
Via Palmanova, 31 . 33050 S. Maria La Longa (UD) Italy
Tel. +39 0432 920175 . Fax +39 0432 923393
www.ecomaster.it . www.atzwanger.net