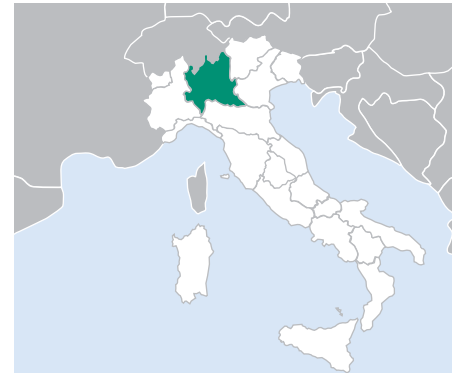


**45** **PARONA (PV) ITALY**

Year	2005
Client	FOSTER WHEELER ITALIANA SpA
Operator	LOMELLINA ENERGIA Srl
System description	RDF plant expansion
Waste processed	Mixed solid waste
Plant capacity	380,000 t/year (total with first lot)



This project includes the design and construction of the fourth line for the production of refuse derived fuel (RDF) of the Lomellina Energia waste-to-energy facility.  
The works are relative to the expansion of the plant built in 1999 by Ecomaster.



The fourth waste sorting line is designed for the treatment of industrial and commercial waste, consisting mainly of packaging materials and similar wastes. The bulky nature of the processed waste has required the use of a special double rotor, slow-speed primary shredder, which is able to reduce the particle size of the waste to facilitate the sorting operations that follow.

After shredding, waste is treated by a rotary screen that sorts out fine inerts. The screen oversized fraction is processed by a magnetic separator and by an eddy current sorter that collect magnetic and non-ferrous metals, respectively.

A high-speed hammermill shredder reduces the waste particle size below the value required for the combustion in a circulated fluidized bed boiler.

Before combustion, the shredded RDF is processed by another magnetic separator for the separation of any residual ferrous metal.



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