



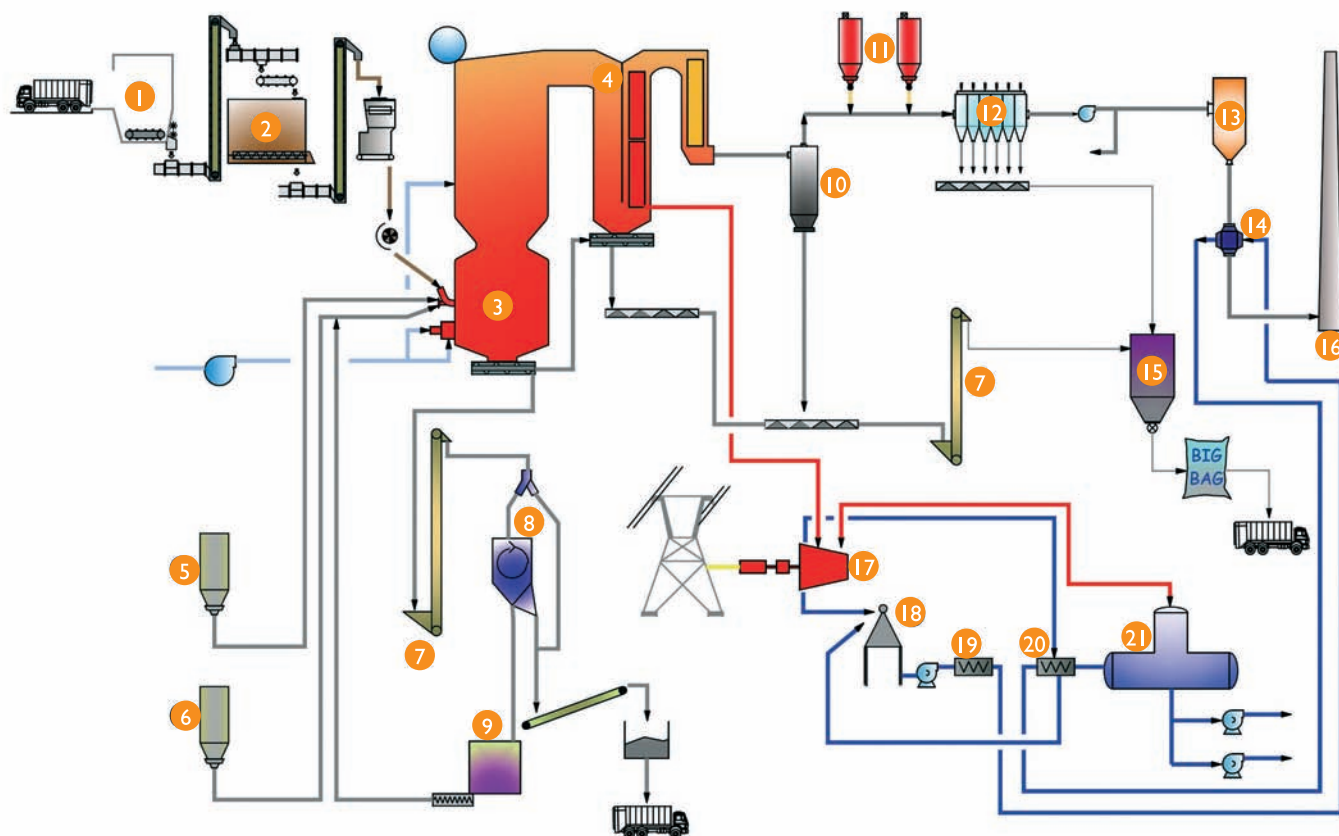
Integrated waste management system of the Versilia region, Italy  
Waste to energy plant

## Pietrasanta. Italy



The integrated waste management system of the Versilia region is composed of a sorting and RDF production plant in the Municipality of Massarosa (Lucca) and of a waste-to-energy plant in the Municipality of Pietrasanta (Lucca), for a total capacity of 140,000 ton/year. The waste to energy plant uses a fluidised bed boiler system for the combustion of RDF produced in the sorting plant located in the neighbouring Municipality of Massarosa (Luca).

TM.E. built the entire plant on a Project Financing basis.



## Legend

- ① RDF unloading hopper
- ② RDF fluff silo
- ③ Fluidized bed boiler
- ④ Boiler
- ⑤ Dolomite silo
- ⑥ Sand silo
- ⑦ Bucket type elevator
- ⑧ Screen
- ⑨ Sand recirculation container
- ⑩ Cyclone
- ⑪ Activated carbon and bicarbonate silos
- ⑫ Baghouse filter
- ⑬ Scrubber
- ⑭ Condensated flue gas exchanger
- ⑮ Dust and fly-ash storage
- ⑯ Stack
- ⑰ Turbo-generator
- ⑱ Air condenser
- ⑲ Screw exchanger
- ⑳ LP exchanger
- ㉑ Deaerator

## Main Data of the Plant

Number of lines	2
RDF nominal capacity	2 x 3.5 t/h
RDF continuous max capacity	2x3.85 t/h
Steam characteristics	40 bar, 400 °C
Nominal steam production	2 x 4.2 kg/s
continuous max steam production	2x4.6 kg/s
Feed water temperature	130°C
Generated electric power	6 MWe

TM.E.S.p.A. - Termomeccanica Ecologia

Sede Legale: Via Lodovico Mancini, 5 - 20129 Milano - Italy  
Sede Centrale e Amministrativa: Via del Molo, 3 - 19126 La spezia - Italy  
Tel. +39.0187.5521 - Fax +39.0187.552215  
www.termomeccanica.com • e-mail: box8@termomeccanica.com