



Integrated waste management system of the Versilia region,  
Italy. RDF Production Plant

## Massarosa (LU) - Italy



The integrated waste management system of the Versilia region is composed of a sorting and RDF production plant in the Municipality of Massarosa (LU) and of a waste to energy plant in the Municipality of Pietrasanta (Lucca), for a total capacity of 140.000 tons/year.

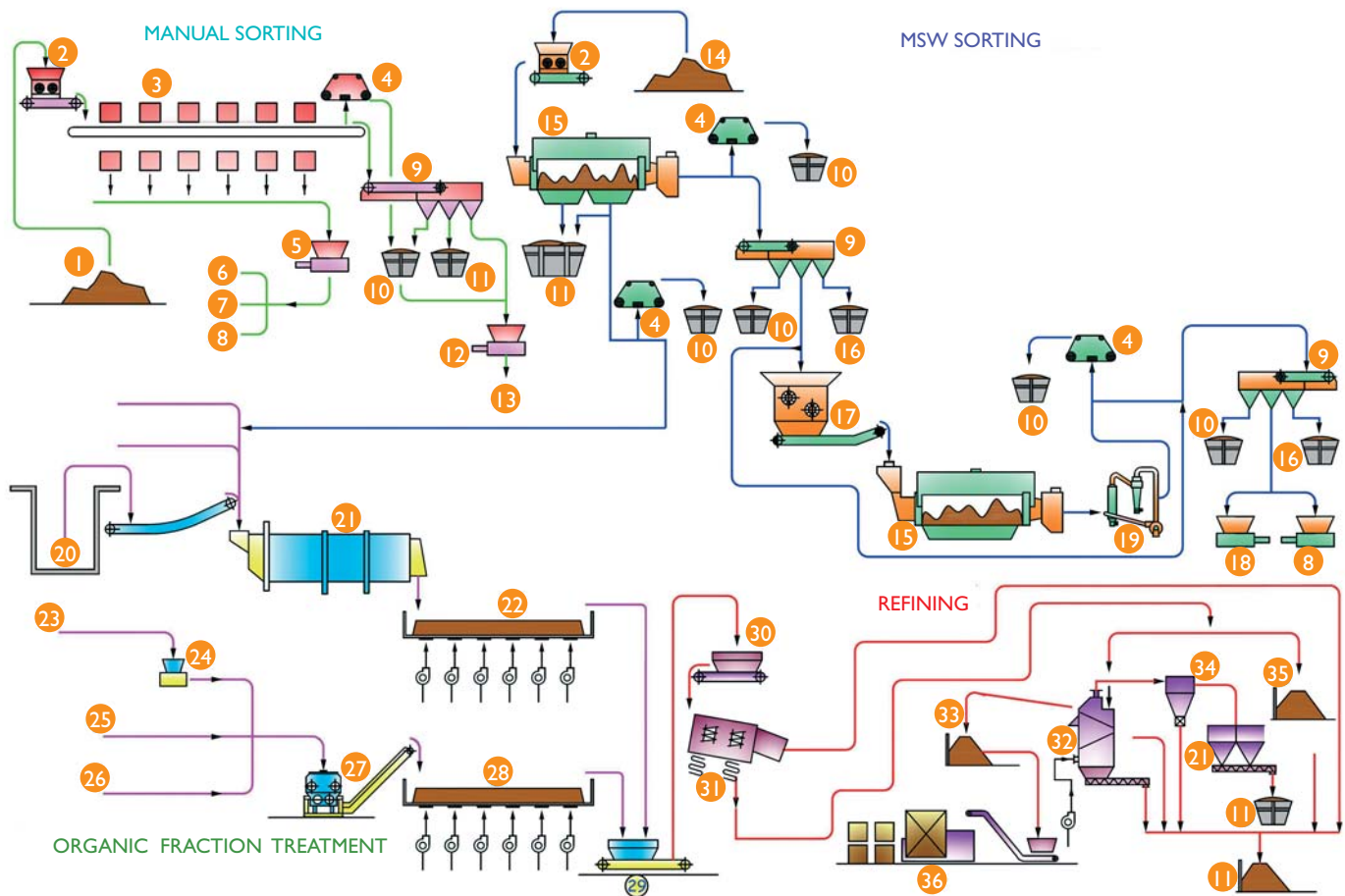
The waste to energy plant uses a fluidised bed boiler system for the combustion of RDF produced in the sorting plant located in the neighbouring Municipality of Massarosa (Lucca)

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



Energy and waste division





The plant is located in the Industrial Area of Massarosa at 30 km from the waste-to-energy plant

### Legend

- |                                 |                                  |
|---------------------------------|----------------------------------|
| 1 Selected waste collection     | 25 Sludge storage area           |
| 2 Bag opener                    | 26 Market refuse storage area    |
| 3 Manual pre-sorting cabin      | 27 Shredder mixer                |
| 4 Removal of ferrous parts      | 28 Maturation/Fermentation area  |
| 5 Plastic-paper press           | 29 Conveyer belt                 |
| 6 Paper bales                   | 30 Clod-crusher, feeder, batcher |
| 7 Carton bales                  | 31 Vibrating screen              |
| 8 Plastic bales                 | 32 Air type sorting machine      |
| 9 Eddy current separator        | 33 Compost                       |
| 10 Collection of ferrous parts  | 34 Cyclone                       |
| 11 Scrap                        | 35 Reycle                        |
| 12 Press                        | 36 Packing machine               |
| 13 Ferrous parts in bales       |                                  |
| 14 MSW reception and storage    |                                  |
| 15 Rotating screen              |                                  |
| 16 Non-ferrous collection       |                                  |
| 17 Shredder                     |                                  |
| 18 Compactor                    |                                  |
| 19 Aeraulic separator           |                                  |
| 20 Sludge tank                  |                                  |
| 21 Pre-fermentation drum        |                                  |
| 22 Maturation/Fermentation area |                                  |
| 23 Greenery storage area        |                                  |
| 24 Chipper                      |                                  |

### Main data of the plant

MSW treatment capacity	140.000 tons/year
Stabilisation of organic fraction of MSW	56.000 tons/year



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