



Waste to energy plant

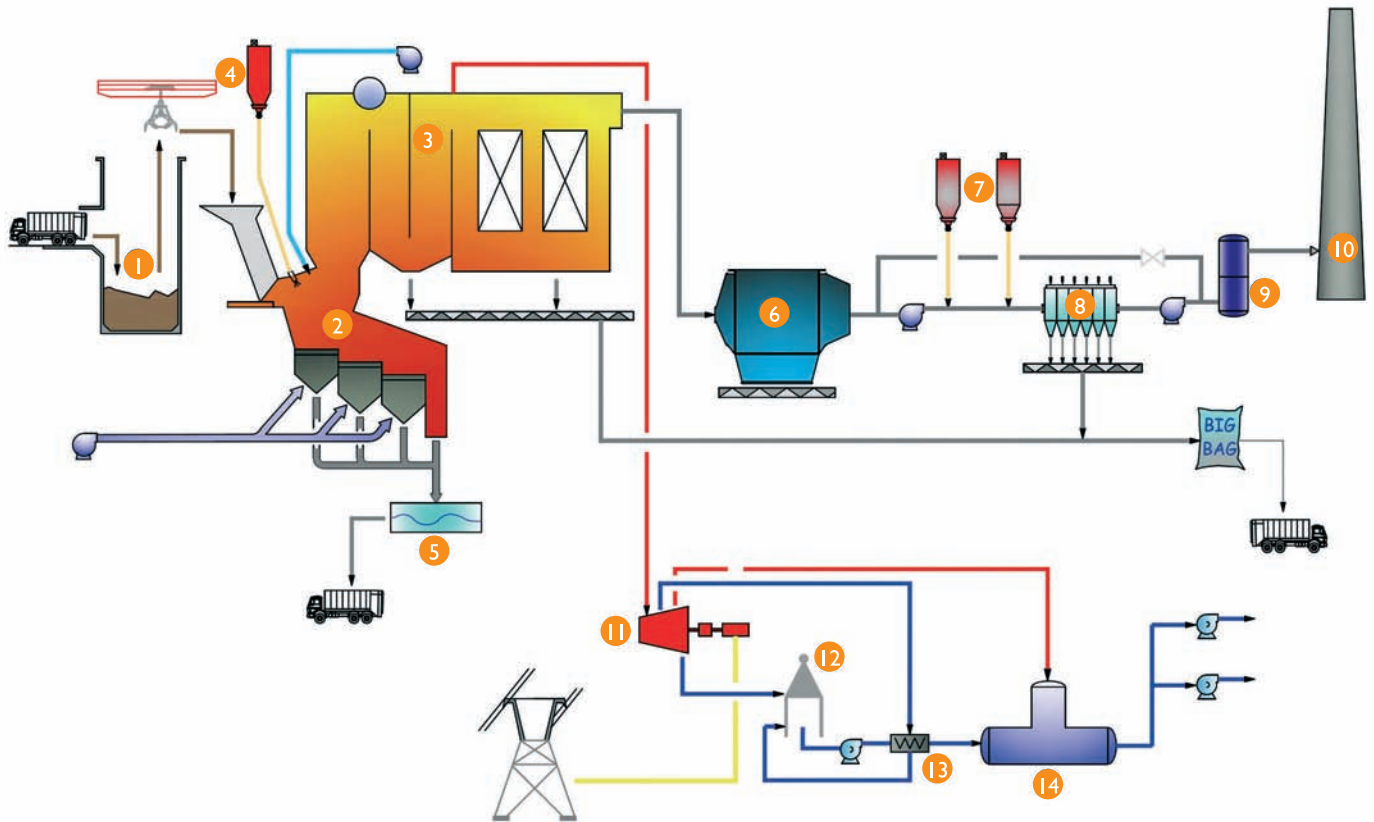
Vercelli, Italy

The old waste to energy plant of Vercelli was built in 1977 with two lines to serve the Municipality of Vercelli.

In 1992 TM.E. S.p.A. – Termomeccanica Ecologia was awarded the tender for a 20 year management and its renovation. The following renovations brought the plant to its present configuration consisting in three grate combustion lines, 75 t/day each, and a separate Sanitary Waste feed line.

One of the stokers currently in operation was designed and entirely built by TM.E., holder of the patent.





Legend

- 1 Waste reception and storage
- 2 Furnace
- 3 Boiler
- 4 Urea silo
- 5 Slag extractor
- 6 Electrostatic filter
- 7 Activated carbon and Ca (OH)₂ silos
- 8 Baghouse filter
- 9 Scrubber
- 10 Stack
- 11 Turbo-generator
- 12 Air-cooled condenser
- 13 LP exchanger
- 14 Dearator

Main data of the plant

Number of lines	3
MSW nominal capacity	3 x 3.2 t/h a 11.4 MJ/kg
Steam characteristics	34 barg, 360° C (lines 1 e 2), 32 barg, 320° C (line 3)
Nominal steam production	2 x 10 t/h lines 1 e 2 8 t/h line 3
Feed water temperature	130 ° C
Electric power produced	2.6 MWe lines 1 e 2 1.4 MWe line 3



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