

ITALIA MDC, ITALY

Size:
1 MWe

Project status:
In construction

More information

Our role: Through a consortium with MetalNRG, a publicly-traded UK investing Company, and two Family Offices, we are the co-owner, operator and provider of gasification technology and will be the O&M contractor.

The plant, previously commissioned in 2015, has reached the following stages:

- ✓ Acquisition of the plant has been completed (financial close)
- ✓ Connection to the grid is in place
- ✓ An Italian EPC contractor, COSMI, has been appointed
- ✓ The plant is expected to be updated, recommissioned and repowered for operations by H2 2022
- ✓ The site will become the first of our 'Market Development Centres (MDCs), which will showcase our technology in a fully operational, commercial setting
- ✓ Site update – March 2022: The thermal cracking reactor and heat exchanger were assembled and the piping installed. The drying and feeding system were ordered and are expected to be on site, on time, to meet the planned commissioning. We're continuing to coordinate with our construction and commissioning partners, exploring further commercial opportunities for the plant, including production of high-quality biochar and construction of additional infrastructure to accommodate higher-margin feedstock and further offtake alternatives.

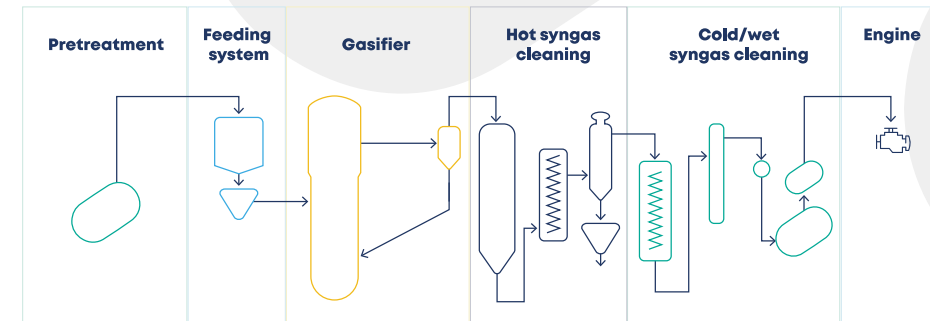
Background:

The gasification plant, which featured EQTEC Advanced Gasification Technology when it was commissioned in 2015, will process c.7,000 metric tonnes of locally sourced waste biomass per year. It will take a mix of straw and forestry

wood waste from regional farmers and forests and will be upgraded to process a greater diversity of biomass feedstocks over time. The green electricity and heat produced will be used by the local community.



Biomass-to-energy configuration



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Technical Specification

Location	Tuscany, Italy
Size (MWe / MWth size)	1 MWe
Electrical efficiency	26 %
Total efficiency (electrical & thermal)	63-70 % (maximum expected)
Feedstock	Agricultural and forestry waste plant
Feedstock throughput	c.7000 tonnes per annum
Engine	GE Jenbacher 612
Operating temperature range	780 – 830 °C
Commission / Due Date	Originally commissioned in 2015, due to re-operationalise in H2 2022
Type (Commercial/R&D Pilot)	Commercial
Category (biomass-to-energy, biomass-to-bioenergy, RDF-to-energy)	Biomass-to-energy
Applications (Electricity, thermal, biochar, biofuels)	Electricity, thermal
Size (MWe / MWth size)	1 MWe