

BILLINGHAM, UK

Size:
25 MWe

Project status:
In development

Background:

We estimate that the plant will annually process 200,000 metric tonnes of non-recyclable everyday Municipal Solid Waste, sorted and subject to basic processing treatment to be converted into Refused

Derived Fuel, otherwise destined for landfill or incineration, into 25 MWe of green electricity, enough to power 50,000 homes, and 34 MW of thermal heat production.

More information

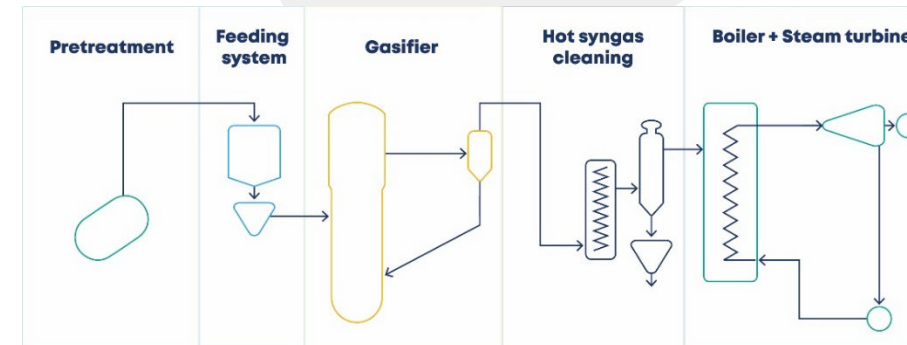
Our role: We are jointly developing the UK's first sustainable plant, using our advanced gasification tech, in Haverton Hill, Stockton-on-Tees

The plant is currently making progress including:

- Our wholly-owned subsidiary has acquired the land
- Planning permission is approved
- Sourcing the optimal construction and operational structure
- Strategic investor, Kibo Energy plc, is expected to acquire a 54.54% equity stake in the project SPV
- Instructed and received a full quotation for the grid connection from the grid operator, Northern Powergrid
- Completed technical due diligence with technology insurance providers
- Site update - July 2021: Detailed design for the core gasification process and equipment and a concept design for the full plant have been produced. Additionally, the project team is selecting delivery partners, including tier 1 EPC companies



RDF-to-energy configuration



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Technical Specification

Location	Stockton-on-Tees, UK
Size (MWe / MWth size)	25 MWe
Electrical efficiency	c25 % (tbc)
Total efficiency (electrical & thermal)	tbc
Feedstock	Municipal waste
Feedstock throughput	c.200,000 tonnes per annum
Engine	tbc
Operating temperature range	800 – 830 °C
Commission / Due Date	tbc
Type (Commercial/R&D Pilot)	Commercial
Category (biomass-to-energy, biomass-to-bioenergy, RDF-to-energy)	RDF-to-energy
Applications (Electricity, thermal, biochar, biofuels)	Electricity, thermal
Size (MWe / MWth size)	25 MWe