

Deeside, UK

Size: 9.9 MWe

Project status: In development

Background:

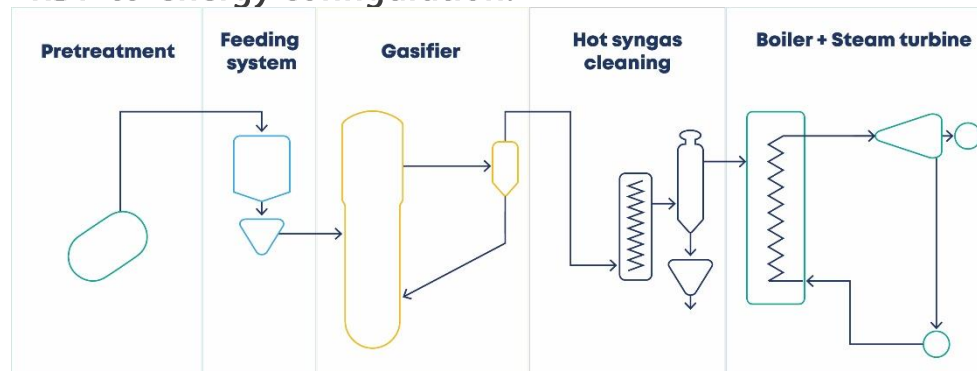
The site currently has planning permission for a waste recycling facility and an anaerobic digestion facility, with a council resolution secured to grant planning consent for the gasification facility. We estimate that the plant will have the capacity to convert c.182,000 tonnes per year of non-recyclable everyday household and commercial waste, otherwise destined for landfill or incineration, into green electricity, enough to power 37,500 homes.

More information:

Our role: EQTEC is a co-developer and gasification technology provider of the project and is working closely in partnership with Logik Developments Limited at the site in Flintshire, Wales, UK. The plant, with combined technologies will create an enhanced integrated waste-to-energy solution and is currently making progress including:

- ❖ Participating in ongoing discussions with potential funders and co-developers
- ❖ Working in partnership with Anaergia Inc. who will develop the engineering design for both the waste processing facility and the AD plant
- ❖ Sourcing the optimal construction and operational structure
- ❖ Completing technical due diligence with technology insurance providers
- ❖ Site update –February 2022: Logik and EQTEC are working partnership and seek to develop additional waste-to-value infrastructure on the site. We have successfully completed a design feasibility study for hydrogen production on site, which indicated viability from planning and environmental points of view. The partners expect to select a technology partner for syngas-to-hydrogen development in Q1 2022. The collaboration agreement with Toyota is progressing

RDF-to-energy configuration:



Deeside, UK

Technical specification

Location	Flintshire, UK
Size (MWe / MWth size)	9.9 MWe
Electrical efficiency	c25 % (tbc)
Total efficiency (electrical & thermal)	tbc
Feedstock	Municipal & industrial waste plant
Feedstock throughput	60-70,000 tonnes per annum (gasifier)
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 and bio-methane gas