



SOLAR|21



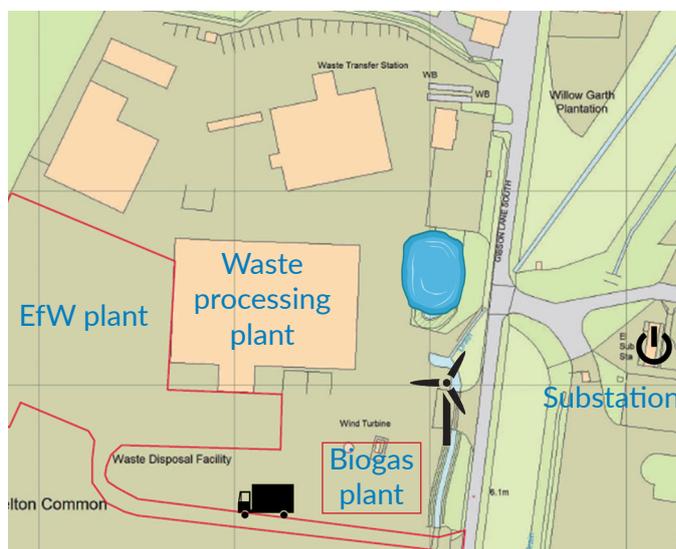
Q1|2020

Biogas 21: Melton AD update

Our Biogas 2 project is being built in Melton, near Hull in the UK. Co-located with our Energy from Waste (EfW) plant, it will process over 60,000 tonnes of organic fines (the organic element of black bin waste) every year producing approximately four million cubic metres of methane per annum. The plant will use dry AD technology to process the organic fines. The plant will prevent approximately 30,000 tonnes of carbon dioxide from being released into the atmosphere each year.

Our experienced team

Solar 21's civil engineering partner Ashcourt is providing the civil works with Fichtner overseeing the engineering and design. Transwaste are a 20% shareholder. Similar in size to our Biogas 1 plant located at Plaxton Bridge, the Melton AD plant will produce approximately 1.7MWe (1.7 MW equivalent) of gas which will be exported directly into the gas grid.



The proposed layout of the Melton AD site

Revenue model

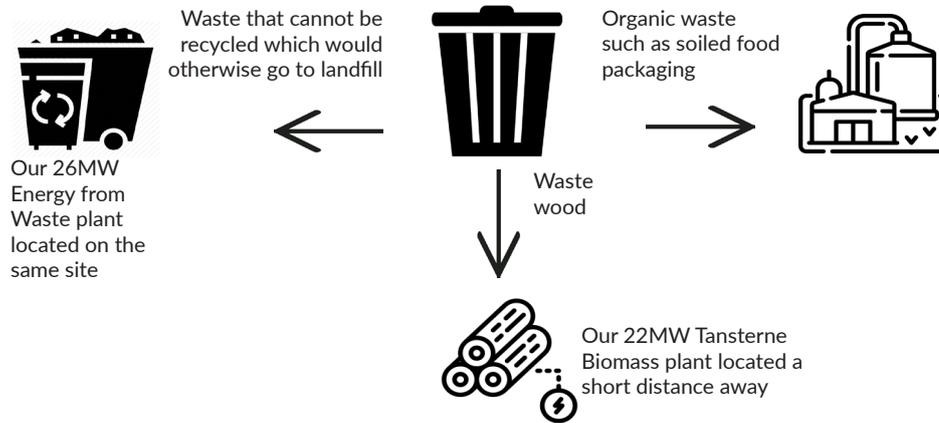
Both of our biogas plants take advantage of the non-domestic Renewable Heat Incentive (RHI). The RHI is part of the UK government's clean energy strategy, designed to stimulate the development and growth of renewable energy technologies. Under the proposed scheme, the UK government will pay an index-linked incentive, guaranteed for a period of 20 years, for the heat and energy produced. Such incentives make the development of biogas plants a stable, long-term investment for developers and investors alike. Waste will be transferred from the adjacent waste processing facility for a competitive gate fee, providing an additional income stream to the plant.

Progress on site

Planning permission was granted in April 2019 and initial site works are in progress. Fichtner Consulting Engineers are engaged in the design process along with our technical team. The plant will be operational 24 hours a day, with a constant feed of organic waste moving through it. Gas will be injected into the grid by Q1 2021. We are on schedule to exit investors via re-finance as they begin to mature in December 2020.

Circular economy

In the UK an estimated 10 million tonnes of food are wasted every year. This waste is worth approximately £20 billion and could generate enough biogas to power 700,000 homes. We're partnering with Transwaste, the largest waste recycling company in East Yorkshire. They currently handle over 500,000 tonnes of waste per annum from homes and businesses and have a licence to expand this to 750,000 tonnes.



Our co-located AD and EfW plants on this site will recover energy from different forms of domestic waste which would otherwise go to landfill and contribute to harmful greenhouse gases. Once the waste comes to site, it is sorted and distributed as outlined above. Together, our renewable energy plants will form part of a green energy park which processes almost 100% of the waste collected by Transwaste. Wind turbines operated by Transwaste on the site further contribute to the park's green energy credentials.

Our partners

Solar 21 believes in working with the best. We partner with experienced firms with decades of experience in renewable energy, engineering and design.

FICHTNER
Consulting Engineers Limited

Fichtner Consulting Engineers, one of the world's premier engineering firms with over 100 offices worldwide is engaged as lead engineer. Fichtner is one of the UK's leading technical advisors in the field of anaerobic digestion having supported numerous projects in the UK and Ireland including Energia's Huntstown AD facility which will process up to 100,000 tonnes/year of waste and generate up to 4.5 MWe of power.

ASHCOURT
GROUP

The civil engineering division of the Ashcourt Group is providing civil works for the construction of the AD plant. Ashcourt has grown rapidly from its beginnings as a small family business to be one of the foremost construction and civil engineering companies in the north east of England.

**TRANS
WASTE**

Transwaste Recycling and Aggregates Ltd is one biggest producers of RDF (refuse derived fuel) in East Yorkshire. At its purpose-built waste transfer stations, Transwaste is licensed to process up to 750,000 tonnes of waste per annum.