



# DAVYHULME

Davyhulme, UK

## FACTSHEET



### Project and Plant data:

- 91,000 metric tonnes DS/year
- Doubling of capacity of existing 8x 7400m<sup>3</sup> digester.
- 4 x 5 reactor.
- 10 MWe + THP steam.
- Pasteurized product.
- Reduced energy for drying and incineration.
- Carbon emissions reduced by 32,000t CO<sub>2</sub> equivalents/year
- High performance digestion.
- High dry solids final product.
- Maximized VS reduction.

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One of UK's largest wastewater treatment works (WwTW) is set to become a valuable source of renewable energy. The benefits of a major upgrade at Davyhulme WwTW in Manchester include the generation of up to 10 megawatts of electricity, 24 hours per day, from biogas

In addition the plant will process biosolids that can be applied to land as fertilizer as a sustainable soil improver or a feed-stock to Mersey Valley Sludge Processing Center.

The renewable energy source provided by the new installation at Davyhulme will contribute towards the UK's target of 15% of all energy supplied by the National Grid coming from renewable sources by 2020.

The Thermal hydrolysis plant will increase capacity of existing digesters by nearly two and a half times. This will allow United Utilities to import and treat sludge from other treatment plants in north-west England and avoid building a planned new incinerator near Preston.

Davyhulme WwTW has been in operation since 1894 and serves a population equivalent of 1.2 million for sewage treatment in and around the city of Manchester. The digestion plant will serve a population equivalent of 3 million people.

### The benefits of the Cambi process are:

- Nearly 2.5 times increase in digester capacity.
- Avoiding new incineration.
- Cost savings in reduction of energy consumption for drying and incineration.
- Green electricity production.
- 32,000 t CO<sub>2</sub> equivalents/year.

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