



CROSSNESS

Crossness, UK

FACTSHEET



Plant capacity and expected performance:

- 36,000 metric tonnes DSyear
- 6 x 3732m³ digesters
- 6 reactor Cambi THP,
- 4 MW electricity + cogen steam, fully developed
- Pasteurized product
- Reduced energy for drying and transport
- High performance digestion

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Located on the south bank of the river Thames, the Crossness sewage treatment works (STW) was first connected to the London Sewer network in 1850.

Today it serves a population of 2 million people and is one of the largest treatment works in the UK. Nearly opposite on the north bank Crossness STW serves 3.5 million people.

The chosen method is to pre-treat the secondary sludge with Cambi thermal hydrolysis and anaerobically digest it before making agricultural grade fertilizer. The upside of this process is that significant renewable energy can be made as well as a safe product for recycling.

Initially Thames Water chose to divert some sludge from Becton to its Riverside plant via an existing pipeline and use the Cambi Digestion process in digesters at that site- this project is complete.

As a further stage to providing sludge treatment capacity, Thames has awarded a project to Imtech Process for refurbishment of existing digesters at the Becton Crossness sites to treat mainly secondary sludge so that the incinerators will use mainly primary sludge that dewater well and has high energy content.

The works incorporates refurbishing 6 digesters at both sites, adding Cambi THP systems reactors and 4 MWs of combined heat and power that only provides some electricity for operations of the STW but also a large amount of the heat required to drive the thermal hydrolysis process.

The benefits of the Cambi process are:

- Compact digestion plant, avoided investment in new digesters
- Reuse of existing dewatering assets
- Reduction in cake volume
- Cost savings in reduction of energy consumption for drying
- Cost savings from green electricity production
- Reduction of inter-site transport costs of sludge as raw cake.



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