



CRAWLEY

West Sussex, UK

FACTSHEET



Project and Plant data:

- B6-3
- 11,300 tonnes DS/year.
- 2 x 1944 m³ digester.
- 1 MWe + THP steam.
- > 57% VS destruction.
- Final product >30% DS to agriculture.

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In July 2013, Cambi received a signed contract as part of the "Thames Water Crawley STW Enhanced Digestion (Thermal Hydrolysis) Plant Project" from GBMjv, a joint venture between Galliford Try Infrastructure Ltd, MWH Treatment Ltd and Mott McDonald Ltd.

This entails delivering a B6-3 Cambi thermal hydrolysis unit to be ready and tested by end of February 2014

The B6-3 is one of a new generation of Cambi plants that are built with modular construction for easy and quick erection on site. It will be placed in front of the two existing 1944m³ digesters in order to increase capacity to 31 dry tonnes of sludge per day. This will enable Thames Water to import sludge from nearby plants so that over 1 MW of electrical energy can be produced from the biogas made in the upgraded digesters. In addition the final digested dewatered product will be low volume odour reduced that is ideal for local agriculture.

The benefits of the Cambi process are:

- High VS and dry solids destruction.
- 30-33% cake solids in the final product.
- 1000 kW electricity (installed)
- Very high digester loading rate (10% DS), rapid conversion with no foaming and 2-3 times increased digester yield.
- Very energy efficient heat treatment due to recycling of process steam and high DS treatment. (16-17% DS)
- Cake production decreased to nearly half.
- Grade A/pathogen-free biosolids with no odour and no re-activation/re-growth.



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