PLANT SHEETS

WHITLINGHAM

Norwich, UK

Plant capacity and performance:

- 20,000 metric tonnes DS/year
- Doubled digester loading
- 2 x 4,000m³ digesters
- Doubled biogas production
- 4-reactor Cambi THP
- Class A pasteurized cake
- Extra 1.5 MW green electricity
- Avoiding lime operations

Whitlingham, Norwich

On 18th June 2007 Cambi signed a binding Letter of Intent with Black & Veatch/Gleeson, main contractor for Anglian Water's Whitlingham sludge centre upgrade.

Whitlingham (Norwich WWTW) serves a population equivalent of approx. 275,000 but also imports half of its sludge from other sites.

Currently only half of this is digested – the remainder is dewatered raw and treated with quick lime. A 4 reactor Cambi THP system is being added to enable all the raw sludge to be digested. The digester biogas and electrical generation will also be upgraded.

The plant is a BNR treatment plant and in this case a separate ammonia treatment system is being added. Cambi THP was chosen on a best whole-life cost.

The benefits of the Cambi process are:

- The cost of the lime operation is avoided without building any more digesters
- Biogas production will be more than doubled and another 1.5 MW of electrical generation will be installed
- The overall volume of product is reduced and the amount of land required for spreading is reduced because of N removal in the process
- All sludge is Class A and can be stored on site for 6 months or more.