



BIO SOLIDS



BIO WASTE



RENEWABLES

PLANT
SHEETS



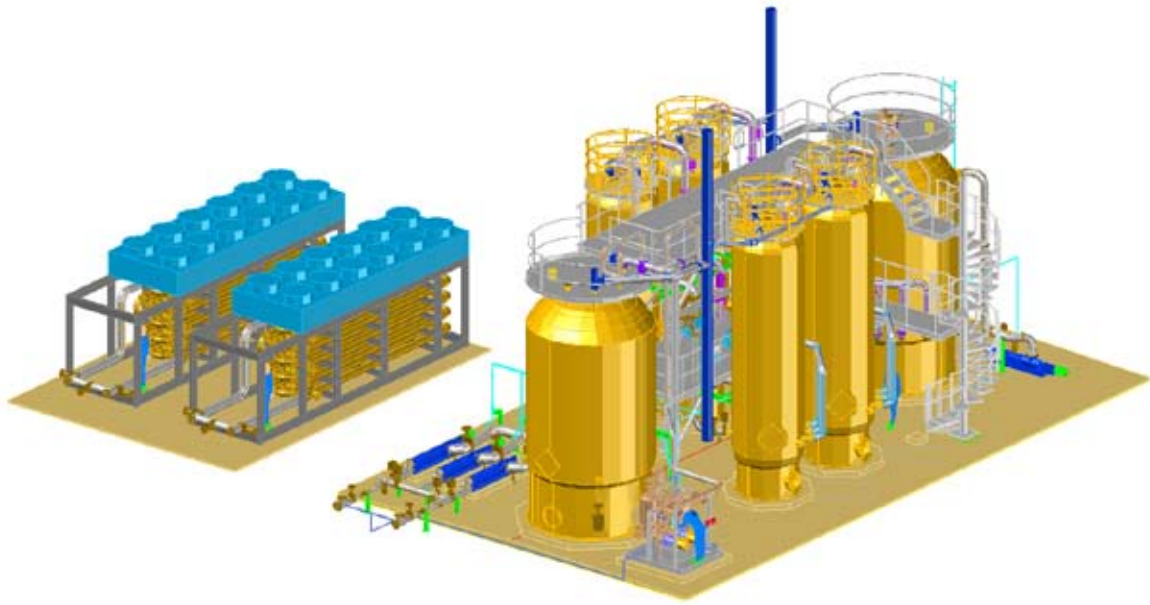
WHITLINGHAM

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

CAMBI™
- recycling energy



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.

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.

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 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.