



CHERTSEY

Chertsey, Thames Water, UK

FACTSHEET

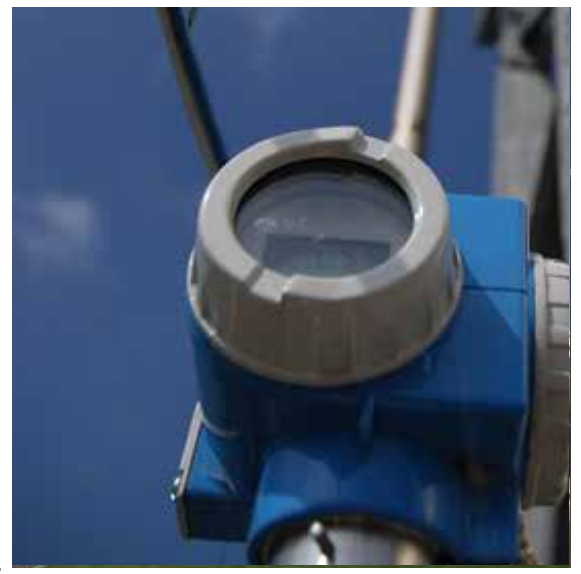


Project and Plant data:

- 9,600 metric tonnes DS/year.
- 2 x 1,600m³ digester.
- 2 reactor Cambi THP,
- 1.2 MWe (planned)
- ~ 3 times increased digester throughput.
- Class A product.
- 99% availability on planned operations.
- > 60% VS destruction.

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CHERTSEY, UK THAMES WATER

The Cambi THP plant at Chertsey, just west of London, England, was built in 1998 and is owned by Thames Water. It is designed to treat 8,000 tons of dry solids annually, which is produced at Chertsey, Leatherhead, Esher and other wastewater treatment plants.

By introducing thermal hydrolysis, the existing digester at Chertsey have nearly trebled capacity.

On 9 November 2004, Cambi signed an operations contract with Thames Water to operate the THP plant for a period of 7 years with an option to extend the operation for additional 3 years.

After re-engineering it has been in successful operation since September 2005.

The benefits of the Cambi process are:

- Existing digesters are able to treat 3 times as much sludge avoiding capital projects at 2 similar sized sewage plants.
- Digester loading at $> 6\text{ kg VS} / \text{m}^3/\text{day}$, digester feed of 10.5%, digester hydraulic retention time of just 12 days, and 60% VS destruction..
- The production is class A (pathogen free)
- 1.2 MW of electrical generation will be installed.
- Since Cambi took over the operation the plant has $> 99\%$ availability on planned operation.
- The plant acts as an emergency sludge center for other plants that have less reliable systems.

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