



SEAFIELD

Edinburgh, Scotland

FACTSHEET



Plant capacity and expected performance:

- 2 x B6-3 Cambi THP
- 6 x 2500 m³ digesters
- 27 000 tons DS/y
- 2.5 MW electricity, Steam for THP
- Enhanced treated product
- Cake to agriculture

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SEAFIELD, SCOTLAND

On 2 October 2013, MWH Treatment awarded Cambi a contract for the installation of two lines of Cambi's modular THP B6 system, at Stirling Water's Seafield Waste Water Treatment Works, Edinburgh, Scotland. Each line is capable of treating 50 dry tonnes of sewage sludge per day. The choice of THP system was made using a sophisticated cost model that ensures that the performance of the equipment meets the financial criteria and cost of ownership of the Private Finance Initiative (PFI). The contract is to produce an enhanced treated sludge through pre-treatment (sterilization and steam explosion) prior to entering the digestion system using Cambi's thermal hydrolysis process.

The use of Thermal Hydrolysis technology has a number of benefits, including:

- Increased sludge dewaterability
- Enhanced treated product with 99.99% pathogen kill enables the sludge to be diverted from landfill and instead used in agriculture.
- Increased biogas production This will result in the site becoming 88% self-sufficient as the gas is fed back into the CHP engines and the electricity used on site
- Enhanced digester capacity

The benefits of the Cambi process are:

- High VS and dry solids destruction
- 30-33% cake solids in the final product
- 2.5 MW electricity & THP steam
- Enhanced digester capacity
- Very energy efficient heat treatment
- Cake production decreased to nearly half
- Enhanced treated product with 99.99% pathogen kill
- Near self-sufficient in electricity and heat



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