



FREDERICIA

Fredericia, Denmark

FACTSHEET



Plant capacity and expected performance:

- 8,000 metric tonnes DS/year
- 2 x 2000m³ digesters
- 2-reactor Cambi THP,
- Cogen: Electricity + steam.
- 30% DS dewatered cake
- Pasteurized cake with >40% vol. reduction
- Doubling of biogas production
- Doubling of digester loading

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FREDERICIA, DENMARK

The Fredericia Plant (420,000 p.e.) is located about 200 km west of Copenhagen and is owned by the Municipality of Frederica.

The capacity of the digestion plant was limited to 4,000 dry tonnes per year and only primary sludge was digested.

However, more than half of the sludge produced was activated or secondary, which had to be dewatered undigested and treated by composting at another site.

By implementing Cambi THP the plant now digests all their sludge and biogas production has increased by more than 100%.

The benefits of the Cambi process are:

- Ability to digest all their sludge including secondary sludge.
- >9% DS sludge feed to digestion.
- Product that meets Danish regulations for pasteurized sludge.
- Half the volume of sludge for disposal compared to before situation.
- Twice the biogas production and lower H₂S content.



CAMBI GROUP AS
P.O. Box 78, NO-1371 Asker
Skysstasjon 11A, 1383 Asker

+47 66 77 98 00
office@cambi.com
www.cambi.com

