



# RINGSEND

## Dublin, Ireland

### FACTSHEET



#### Plant capacity and expected performance:

- 56,000 tonnes DS/year
- Digester loading 6 kg VS/m<sup>3</sup>/ day, 2-3 x normal
- 3 x 4,300 m<sup>3</sup> digesters
- ~10% DS feed to digesters
- Cogen: 4 MWe + steam
- >60 % VS reduction
- 3x4 reactor Cambi THP
- High dry solids Class A cake

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## RINGSEND, DUBLIN, IRELAND

The Cambi 12-reactor THP plant is designed to treat 56,000 tonnes DS sewage sludge annually to be digested and then dewatered and dried.

The WWTP was originally operating a two-train drum drying systems of the raw primary sludge to meet the requirements of pasteurisation in Ireland.

The plant was extended by adding SBR biological secondary treatment reactors to the existing primary treatment plant, doubling the sludge quantity and reducing sludge dewaterability.

This would normally have led to a tripling of dryer expansion because of the much greater water evaporation requirement.

However, by adding Cambi THP the digested cake volume was reduced and the dryer project was only expanded by 50%. Also, the required digestion volume was reduced to less than half the conventional: Three 4,300 m<sup>3</sup> digesters are fed at about 6 kg VS/m<sup>3</sup>/day and routinely achieve 60% VS conversion with 45,000 m<sup>3</sup> per day of biogas.

The benefits of the Cambi process are:

- Compact digestion project: 1/2 to 1/3 of conventional digester volume
- Reduction in dryer evaporative capacity required to 50%
- Cambi digested cake is Class A and is used in agriculture to avoid using dryer
- Biogas energy is used for up to 4 MWs electricity production

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