



MAPOCHO

Santiago, Chile

FACTSHEET



Plant capacity and expected performance:

- 36,000 metric tonnes DS/year
- 4 x 12,600 m³ + 1x15,000 m³ digesters
- 2x3 reactor Cambi THP
- 9 MW electricity + cogen steam
- Reduced energy for drying and transport
- High performance digestion

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MAPOCHO, SANTIAGO, CHILE

Cambi's Thermal Hydrolysis Process (THP) is the key component of an advanced digestion system as part of a major wastewater upgrade and extension project in Santiago, Chile.

The plant treats wastewater from the city of Santiago in Chile. The contract was awarded by a joint venture between Degremont and AG-BAR, as a part of their 260 million Euro contract for a major upgrade and capacity increase project at the Mapocho wastewater plant.

Cambi THP is a vital component in the efficient production of biogas from the sewage sludge that are used to produce approx. 60% of the electricity needed to operate the entire wastewater treatment plant. The implementation of Cambi THP facilitates the overall goals of the total project in accordance with the Region of Santiago's sustainable development policy. The policy aims to restore the natural environment's water quality and to prepare the region for a population increase. The project involving Cambi THP will double the capacity of the wastewater plant and enable the treatment of a wastewater quantity equivalent to 4 million inhabitants.

At Mapocho, a high and substantially increased load of secondary sludge are treated by Cambi THP and then mixed with raw primary sludge prior to digestion. Due to the pre-treatment with Cambi THP the client are able to feed the digesters at a significantly higher load and with lower retention time than with conventional digestion. In addition, the process will yield a high-quality cake fertilizer product.

Cambi THP has a major effect on secondary biological sludge, which is generally very difficult to digest and dewater. The Cambi process has already proven its ability to significantly improve the digestibility and dewaterability of secondary sludge in large-scale projects including Brisbane and Brussels, where traditional digestion processes were unfeasible.

The benefits of the Cambi process are:

- Compact digestion plant, avoided investment in new digesters
- Reuse of existing dewatering assets
- Reduction in cake volume
- Cost savings by reduction of energy consumption for drying
- Cost savings from green electricity production
- Reduction of inter-site transport costs of sludge as raw cake



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