



BIOSOLIDS

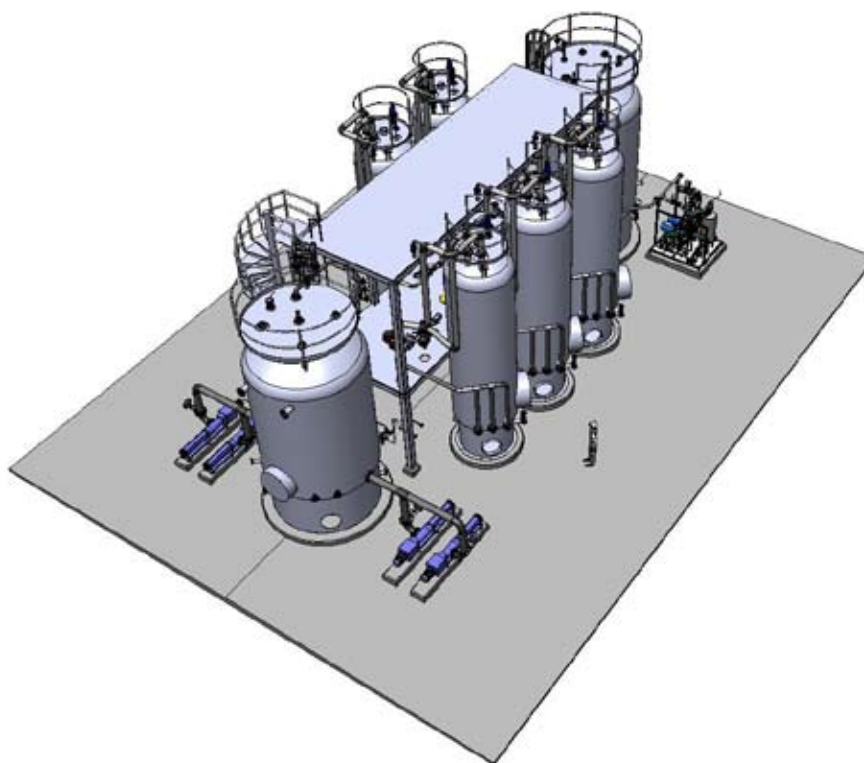


BIOWASTE



BIORENEWABLES

PLANT
SHEETS

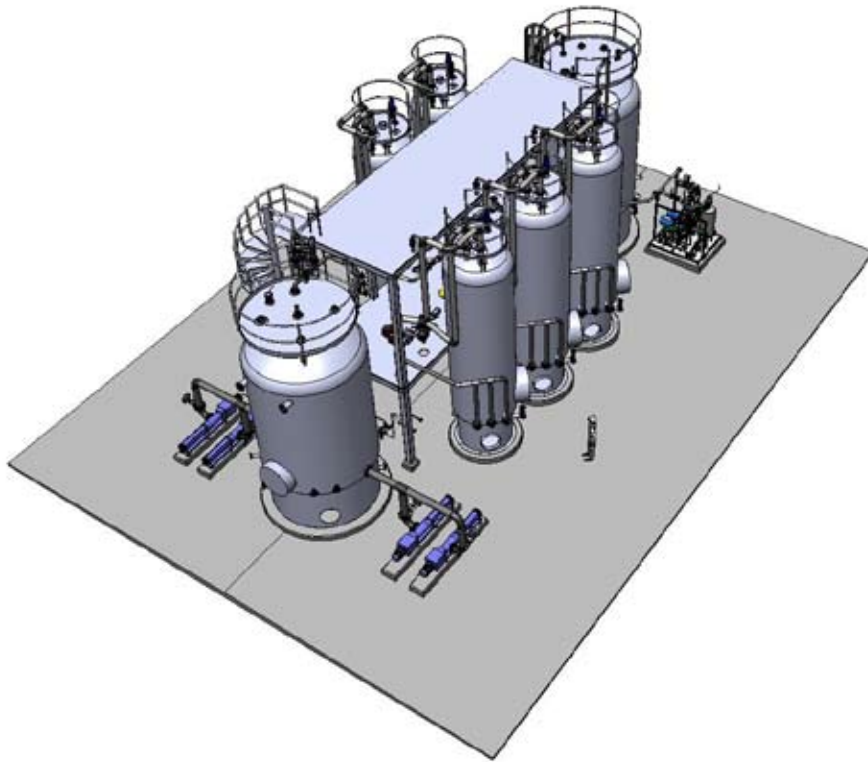


VILNIUS

Vilnius, Lithuania

Plant capacity and performance:

Timeline/Hand over:	Beginning of 2010
Capacity:	23,000 tonnes of DS/year
Raw material:	Mixed primary and secondary sludge, some imports
Biogas utilization:	Combined heat & power (CHP) and low-temp. drying
Biosolids utilization:	Dewatered and dried cake to agriculture
Digestion:	3 x 3700m ³ digesters, incl. Cambi fin-fan coolers



Vilnius, Lithuania

On 29 September 2008 the German water experts WTE Wassertechnik GmbH together with its Norwegian partner Cambi AS signed a major order for the construction of a sludge treatment plant in the Lithuanian capital Vilnius.

The Consortium will construct one of Europe's most advanced sludge treatment plants for a total invest volume of more than 200 million Litas (approx. 58 million EUR). The scope of works includes sludge thickening, digestion, Cambi fin-fan coolers, sludge dewatering and low-temperature drying as well as the utilisation of the produced biogas in a combined heat and power station.

The benefits of the Cambi process are:

- High biogas yield
- Compact digestion plant
- High dry solids biosolids cake
- Small dryer footprint and low energy use
- Pasteurized and odour-free cake
- Low carbon footprint

By the introduction of a thermal hydrolysis plant, which Cambi will be fully responsible for, the highly efficient sludge treatment facility ensures a pasteurised and odourless final biosolids product. The resulting high digestion rate and high dry solids feed give only 1/3 – 1/2 the digester volume of conventional systems. In addition the thermal hydrolysis plant will lead to significantly increased biogas production and reduced final product volume, both major benefits for sludge drying.

The sludge drying will be low temperature belt dryer running on thermal energy from the combined heat and power station. This is the first such plant in the world.