



BIOSOLIDS



BIOWASTE



BIORENEWABLES

PLANT
SHEETS

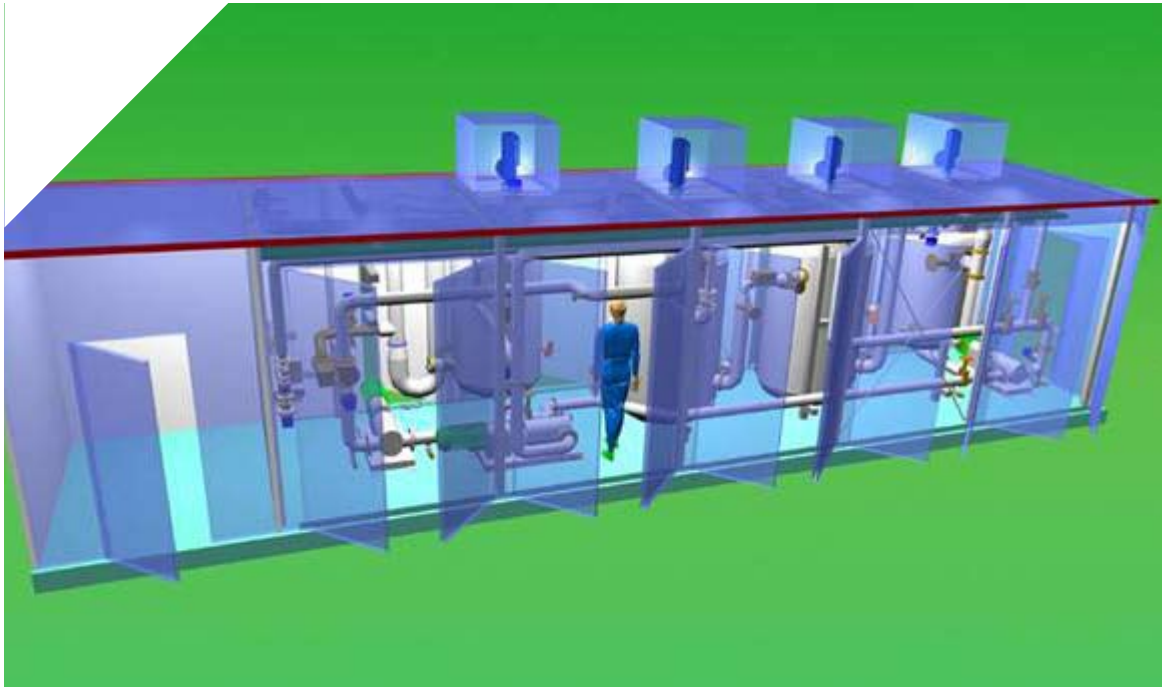


GEISSELBULLACH

Amperverband, Germany

Plant capacity and expected performance:

- 2.000 tonnes DS/year
(secondary sludge only)
- 2 x 3000 m³ digesters
- Continuous Cambi THP
- Increased biogas production
- Improved sludge dewaterability



Amperverband, Geiselbullach

Amperverband decided in Board meeting on 14 September 2006 to buy Cambi a THP-C (continuous) plant from Cambi ARGE Deutschland, an "Arbeitsgemeinschaft"/ consortium between Stulz (plant builder and installer) and Cambi AS.

This followed analysis by Dr. Julia Kopp, of hydrolyzed sludge at consultant PCS' laboratory from Dec. 05 - Jan. 06, on VS destruction and dewatering.

It was demonstrated that thermally hydrolyzing only the secondary sludge (approximately half the total) and then mixing it with untreated primary sludge before digestion had a significant effect on dewaterability of the digested sludge.

This has not been demonstrated with other disintegration technologies.

In addition biogas production increased significantly. The commissioning of the plant was delayed but it is now (spring 2008) in the start up phase.

The goal of the Cambi process is to increase dewaterability from 19% up to 27% DS by the hydrolysis of secondary sludge only.

The benefits of the Cambi process are:

- Better dewatering saves on costs for sludge incineration
- Increased biogas production