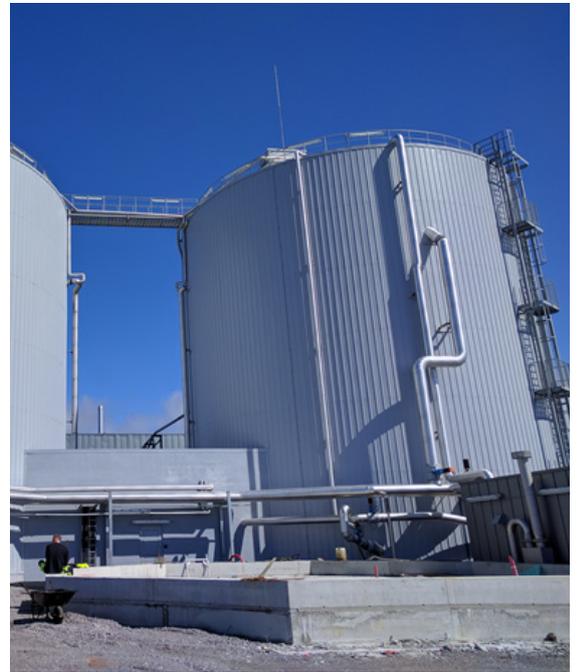


# IVAR

Grødaland, Stavanger, NORWAY



## FACTSHEET

**CAMBI**<sup>®</sup>  
- recycling energy

### Plant capacity and expected performance:

- 22.000 metric tonnes DSyear
- 2 x 4000m<sup>3</sup> digesters
- 2 reactor Cambi THP,
- 55,000 MW electricity + cogen steam, fully developed
- Pasteurized product
- High performance digestion

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## IVAR Grødaland, NORWAY

The plant will be a multi fuel plant, initially fed by waste water treatment sludge, but later also household waste and liquid waste. It will treat sludge and waste from several municipalities in the area around Stavanger, with an initial load around 11 000 tons of dry matter per. year. The design contains optional capacity doubling; with only small additions the plant is able to treat more than 22,000 tons dry matter on a yearly basis.

The biogas production will have an energy content of more than 55,000 MWh when plant is fully developed and producing at design capacity. Future possibilities are recovery of nitrogen, potssium and micro nutrients for use in farmland. The rest product can also be used as is, for soil improvement and fertilizer.

Cambi`s ongoing research and development has lead to increasing efficiency and more flexible technology, making their plants ready to recieve a broader range of materials. One crucial point is the now more efficient steam exploitation, proving further increase of biogas production, plus improving the general aspects of sludge behavior.

The installation of the core technology will start this spring, while the plant will be operativ from mid 2014. This contract is the first in a series of part construction that duringthe coming years will end in a future proof, environmental friendly and holistic waste treatment and energy production plant. Cambi is proud to be a part of such a thoughtful commitment to solving the modern society`s challanges with the best available technology.

### 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 in 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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