

Opening ceremony of the new Cambi THP system at Damhusåen wastewater treatment plant in Copenhagen, Denmark

Copenhagen, Denmark, 13 September 2024

Cambi proudly announces the official inauguration ceremony for Denmark's most modern thermal hydrolysis process (THP) plant at BIOFOS' Damhusåen wastewater treatment facility. The new facility will make Copenhagen's gas network nearly self-sufficient with locally produced, sustainable biogas.

BIOFOS, Denmark's largest wastewater company, manages the treatment and resource recovery from wastewater in the Greater Copenhagen area. The new THP facility, designed, delivered and installed by Cambi, will process the secondary solids at Damhusåen, significantly increasing biogas production. The THP process enhances the breakdown of organic material, making it more accessible to microorganisms that convert it into biogas and increasing the facility's treatment capacity.

Per Audun Lillebø, CEO of Cambi, emphasises the project's environmental and operational benefits: "The THP facility allows for increased solids processing capacity and improves the plant's energy balance by increasing biogas production and improving energy efficiency, all without the need for constructing additional conventional digesters. The project supports Copenhagen's goal of achieving CO₂ neutrality and reducing wastewater treatment's environmental footprint."

The THP system will enable BIOFOS to handle the growing volumes of wastewater and sludge anticipated through 2045 as the Greater Copenhagen area expands. This increase in capacity is especially vital in the context of more frequent and intense rainfall events caused by climate change.

John Buur Christensen, CEO of BIOFOS, is excited about the new installation: "The THP facility will allow us to increase the volume of solids we can process in each digester. This way, we can renovate our ageing infrastructure without interruptions in operation. Ultimately, we expect our biogas to contribute to making Copenhagen's gas supply fully CO₂-neutral."

Preliminary results from the new THP system are already promising. BIOFOS is seeing a reduction in the amount of sludge transported for incineration, cutting down on the number of daily truck trips. The full integration of the plant is expected within the next month, with the first of BIOFOS' four digesters scheduled for renovation by mid-October. The entire renovation of the 80-year-old digesters is set to be completed by 2027.

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About Cambi:

Cambi is a global biogas technology and solutions supplier for wastewater treatment plants and anaerobic digestion facilities. Since 1992, Cambi has retained market leadership through continuous innovation and a robust portfolio of proven and patented technologies. With strong project delivery and customer support capabilities, the company has delivered many well-performing installations in 27 countries on six continents.

Cambi's thermal hydrolysis process increases renewable energy output, reduces operational costs, and minimises greenhouse gas emissions. It is suitable for all biosolids outlets, including land application and thermal processes such as drying, pyrolysis, and incineration. Thermal hydrolysis is compatible with all sludge and waste treatment regulations and easy to integrate at new and existing anaerobic digestion sites.

Cambi is listed on Euronext Growth Oslo, a multilateral trading facility in Euronext, Europe's largest stock exchange platform. Find out more at cambi.com.

About BIOFOS:

BIOFOS is Denmark's largest wastewater utility, serving 1.2 million inhabitants in Copenhagen. Operating three major treatment plants – Lynetten, Avedøre, and Damhusåen – BIOFOS is committed to efficiently treating wastewater while recovering valuable resources. Through our innovative processes, we produce climate-friendly energy in the form of electricity, biogas, and district heating, contributing to a more sustainable future.

In addition to our core operations, BIOFOS is dedicated to environmental education. Our active education program teaches schoolchildren about wastewater management, environmental protection, and sustainable energy each year. For more information, visit biofos.dk.



Opening ceremony. From left to right: John Buur Christensen (CEO of BIOFOS), Katja Nordgaard (Norway's Ambassador to Denmark), and Per Audun Lillebø (CEO of Cambi)



The Cambi THP system in operation at Damhusåen