

Sustainable decentralised wastewater treatment
in Swedish neighbourhood

Helsingborg



An award-winning project featuring the source-separated collection and treatment of blackwater and greywater, focusing on water saving, and the recovery and reuse of valuable nutrients and energy.

Futureproof neighbourhood

The new circular residential area Oceanhamnen was completed in 2021 with the goal of creating an environmentally friendly living environment where waste flows are reused.

In homes and buildings, greywater and blackwater are collected separately and treated within the neighbourhood. Additionally, kitchens are equipped with grinders for processing food waste.

Commissioned by the Swedish water company NSVA (Nordvästra Skånes Vatten och Avlopp AB), Desah conducted a feasibility study and designed the entire installation.

This included:

- blackwater digester
- food waste digester
- food waste hygienisation
- biological greywater treatment
- greywater polishing with nanofiltration
- control and automation installation
- training of the operators
- system startup



Award-winning

For this innovative sanitation system, Desah won the Swedish Innovation Prize in 2015 in the Blackwater and Food Waste Challenge in the Water Treatment Plant category. In 2022, the same project also received the Global Water Award in the Wastewater Project of the Year category.





Energy recovery

- biogas production (60 - 70 % more than with a traditional WWTP)
- heat recovery from greywater
- energy-positive wastewater treatment



Water saving

- 30 % drinking water savings by using vacuum toilets
- water reuse (in this project for swimming pool)



Nutrients recovery

- struvite production (3 times more than with traditional WWTP)
- reuse of sludge for agricultural purposes



And even more..

- reduction of nitrous oxide and carbon dioxide emission
- effective removal of micro pollutions, such as pharmaceuticals



Over 250 years of experience in water handling and treatment.

From water intake systems to water cooling, from water management to wastewater treatment, hydropower, pump installations, and award-winning innovations in decentralised wastewater treatment; Desah, Hubert, and Landustrie have joined forces. Based in Sneek, Friesland, our craftsmen develop and manufacture future-proof solutions with an above-average lifespan.

For more information please contact

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