

## HEPWAT – Higher Environmental Performance in Wastewater systems

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The Danish wastewater industry is getting a new “lighthouse” - a project to demonstrate the latest Danish wastewater treatment technology. It is about developing new solutions for operating the waste water system and for purification. Operation and cleaning will be optimized, more sustainable and cost-effective. The utility company Assens Forsyning [Utility Company] will realize the project in a partnership with pump technology company Grundfos, the engineering company Krüger, The Danish technical University (DTU) and the IT-firm ARTOGIS.

DTU will test strategies to:

- Maximize carbon recovery (via further anaerobic digestion) from the influent wastewater.
- Enhance autotrophic nitrogen removal at low temperature and high fluctuating C/N wastewater streams (municipal + industrial).
- Mitigate low nitrous oxide ( $N_2O$ ) emissions, a greenhouse gas emitted during biological nitrogen removal.
- Test the best biofilm technologies for micropollutant and pathogen removal.

