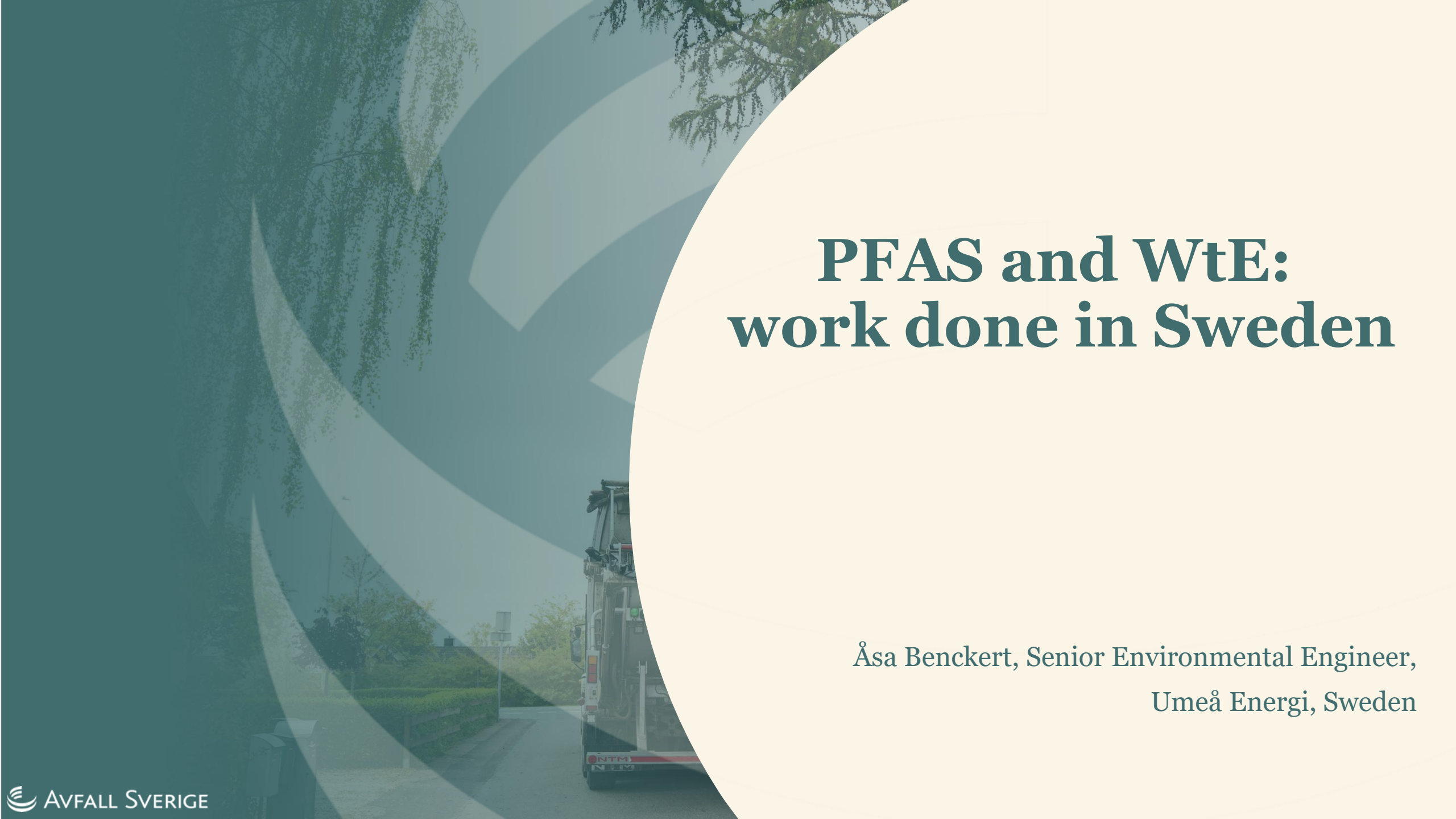




PFAS and WtE: work done in Sweden

Åsa Benckert, Senior Environmental Engineer,
Umeå Energi, Sweden

PFAS and WtE: work done in Sweden

n

Avfall Sverige, the Swedish Waste Management

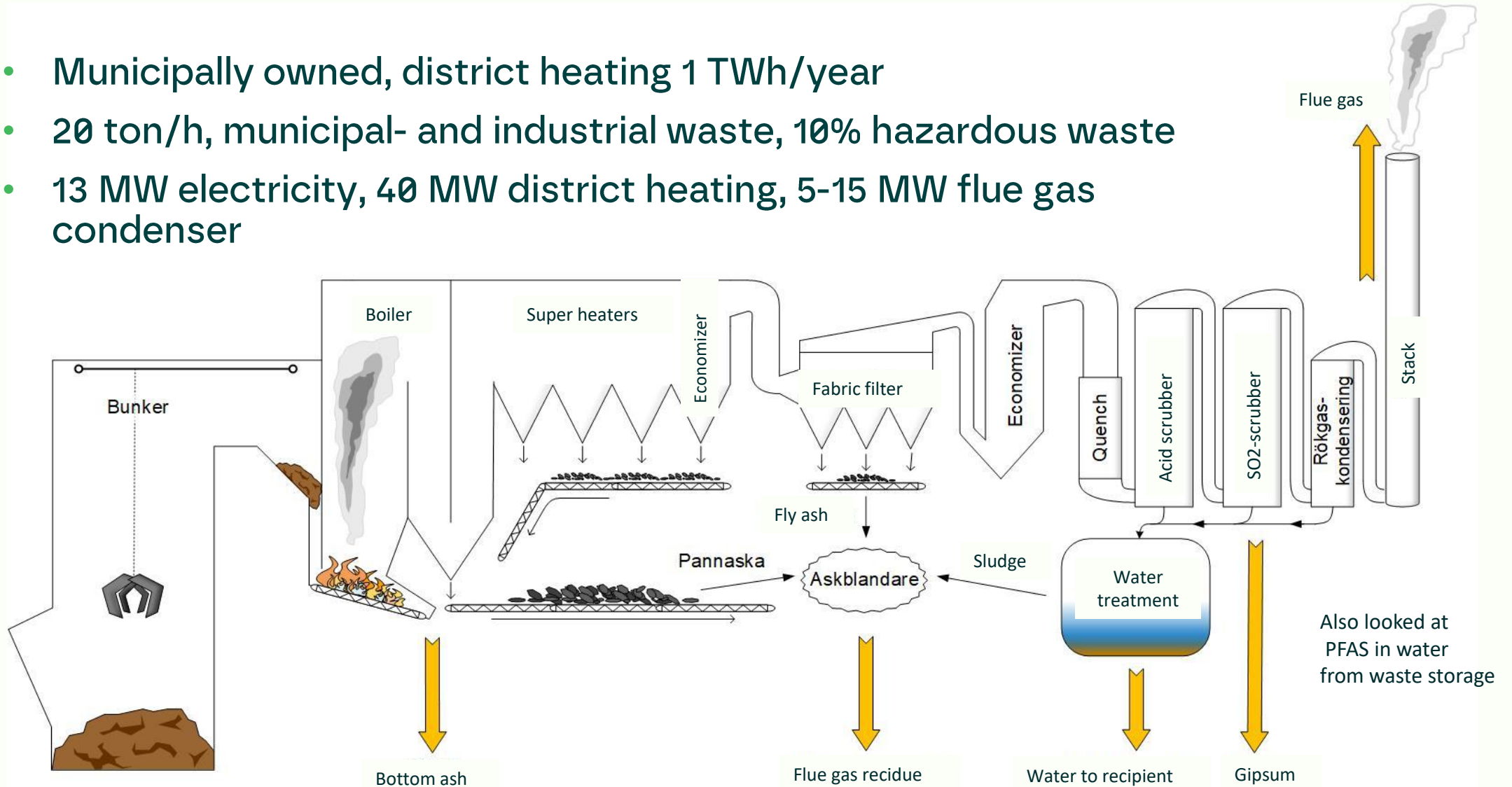
- Discussions started in 2016 about PFAS in WtE
- First tests in 2018: verifying that existing methods for soil and water could be used for ash and flue gas condensate
- 2024, sampling flue gas using OTM45, OTM50 and a method developed by Umeå University (Swedish Environmental Research Institute)
- Work continues in 2025

n

Umeå Energi

- Participates in projects with Avfall Sverige
- In 2018 a PhD student started working on PFAS. A collaboration between Umeå Energi and Umeå University through the Industrial Doctoral School for Research and Innovation
- In 2024, a second PhD student continues the work on PFAS and waste incineration
- The first Doctoral thesis published in September 2024, see References

- Municipally owned, district heating 1 TWh/year
- 20 ton/h, municipal- and industrial waste, 10% hazardous waste
- 13 MW electricity, 40 MW district heating, 5-15 MW flue gas condenser



References

n

1. [2020:18/Analysis of PFAS in slag and condensate from municipal waste incineration](#)
2. [PFAS in waste residuals from Swedish incineration plants: A systematic investigation](#)
3. [Exploring the Occurrence, Distribution and Transport of Per- and Polyfluoroalkyl Substances in a Waste-To-Energy Plant](#)
4. <https://www.ivl.se/english/ivl/press/press-releases/2024-08-29-swedish-project-first-to-measure-pfas-in-flue-gases-from-waste-incineration.html>