



**WETPOL  
2019**

## Technical Tour: Sludge Treatment Reed Beds Systems (STRBs)

**Date:** 20 June 2019, 06.45 - 18.00.

**Bus departs from:** Kalkværksvej, 8000 Aarhus (parking space).

**Meals:** Lunch and afternoon coffee are included.

**Refreshments:** Coffee can be purchased on the bus. Food and beverages can be purchased on the ferry.

### Program:

- 06.45 Bus arrives at Kalkværksvej, 8000 Aarhus
- 07.00 Departure
- 07.45-09.00 Sail with the ferry "Molslinien" Aarhus- Zealand
- 10.45-12.15 Site visit: Helsingør Sludge Treatment Reed Bed System (incl. lunch)  
Location: Skovgårdsvej 4, 3200 Helsingør
- 12.35 – 13.45 Site visit: Pårup Sludge Treatment Reed Bed System (incl. Coffee and cake)  
Location: Pårupvej 183-185, 3250 Gilleje
- Drive back to Aarhus*
- 18.00 Arrival in Aarhus, Kalkværksvej, 8000 Aarhus

*This tour will highlight three Danish Sludge Treatment Reed Beds Systems: Two systems (Helsingør and Kallerup) which have been operational for more than two decades, and therefore provide insight into long-term management and performance, a new system established in 2018 (Pårup) which treats sludge from more than 10 WWTP. Helsingør STRB has a capacity of 630 tonnes dry solids (DS) per year and consists of 10 basins, each having an area of 1,050 m<sup>2</sup> at the filter surface and a maximum area loading rate of 60 kg DS/m<sup>2</sup>/year. In 2015 four more basins were established to achieve a strategy with an area load of 45 kg DS/m<sup>2</sup>/year and emptying one basin per year. A 800 m<sup>2</sup> stockpile area covered by a greenhouse roof for post treatment of the sludge residue from the STRB basins before recycling was established in 2013. Kallerup STRB is a combined STRB and stormwater treatment system established in 1996 with a capacity of 240 tonnes DS per year. It consists of eight basins, each having a surface area of 500 m<sup>2</sup> and a maximum area loading rate of 60 kg DS/m<sup>2</sup>/year. In 2003 two more basins were established to accommodate the climate change induced increased rain loading. Pårup has a capacity of 450 tonnes DS per year and consists of 10 basins, each having a surface area of 1,000 m<sup>2</sup> and a maximum area loading rate of 45 kg DS/m<sup>2</sup>/year. This tour is sponsored by Orbicon A/S.*

*Additional information about these three sludge treatment systems can be found at: [www.orbicon.com](http://www.orbicon.com) (Expertise).*

