



# AVEDØRE

## Municipal WWTP

270,000 P.E. /  $Q_{inlet}$  75,000 m<sup>3</sup>/d

*Avedøre is part of the suburbs in the south-west of Denmark's capital Copenhagen.*

*The Avedøre WWTP was built on reclamation ground in 1968 and treats sewage from a catchment area of approximately 86 km<sup>2</sup> respectively 270,000 P.E.*

*In 2015 the plant switched from surface aerators to high efficient AEROSTRIP® diffusers.*

NUMBER OF TANKS	4
TOTAL VOLUME	80,000 m <sup>3</sup>
WATER DEPTH	3.5 m
SOTR (Standard Oxygen Transfer Rate)	max. 4,270 kg O <sub>2</sub> /h
TOTAL AIRFLOW	max. 58,720 Nm <sup>3</sup> /h
TOTAL AEROSTRIP® DIFFUSERS	1,600

## FROM SURFACE TO EFFICIENT AERATION

The biological stage of Avedøre STP was originally built as an oxidation ditch, equipped with surface rotors for aeration. This was typical for the region and the time.

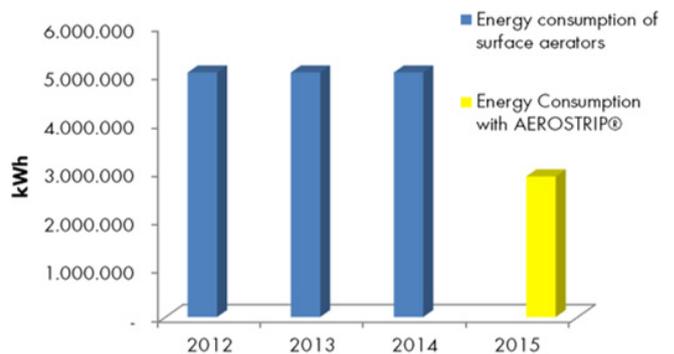
Due to the shallowness of the tanks, fine bubble aeration was considered to provide no significant improvement in energy efficiency.

But then came AEROSTRIP®.

First of all, prefabricated piping and the use of AEROSTRIP® snap fasteners for diffuser mounting reduced installation time to a minimum.

Furthermore, AEROSTRIP® guaranteed energy savings of 38.5 %, or 1,940,000 kWh per year.

Operational figures of AEROSTRIP® indicate even higher values: Current energy savings are ~42.5 % which means 2,140,000 kWh per year!



# AEROSTRIP®

fine bubble diffusers by AQUACONSULT