



Welcome to VCS

Mads Leth, CEO



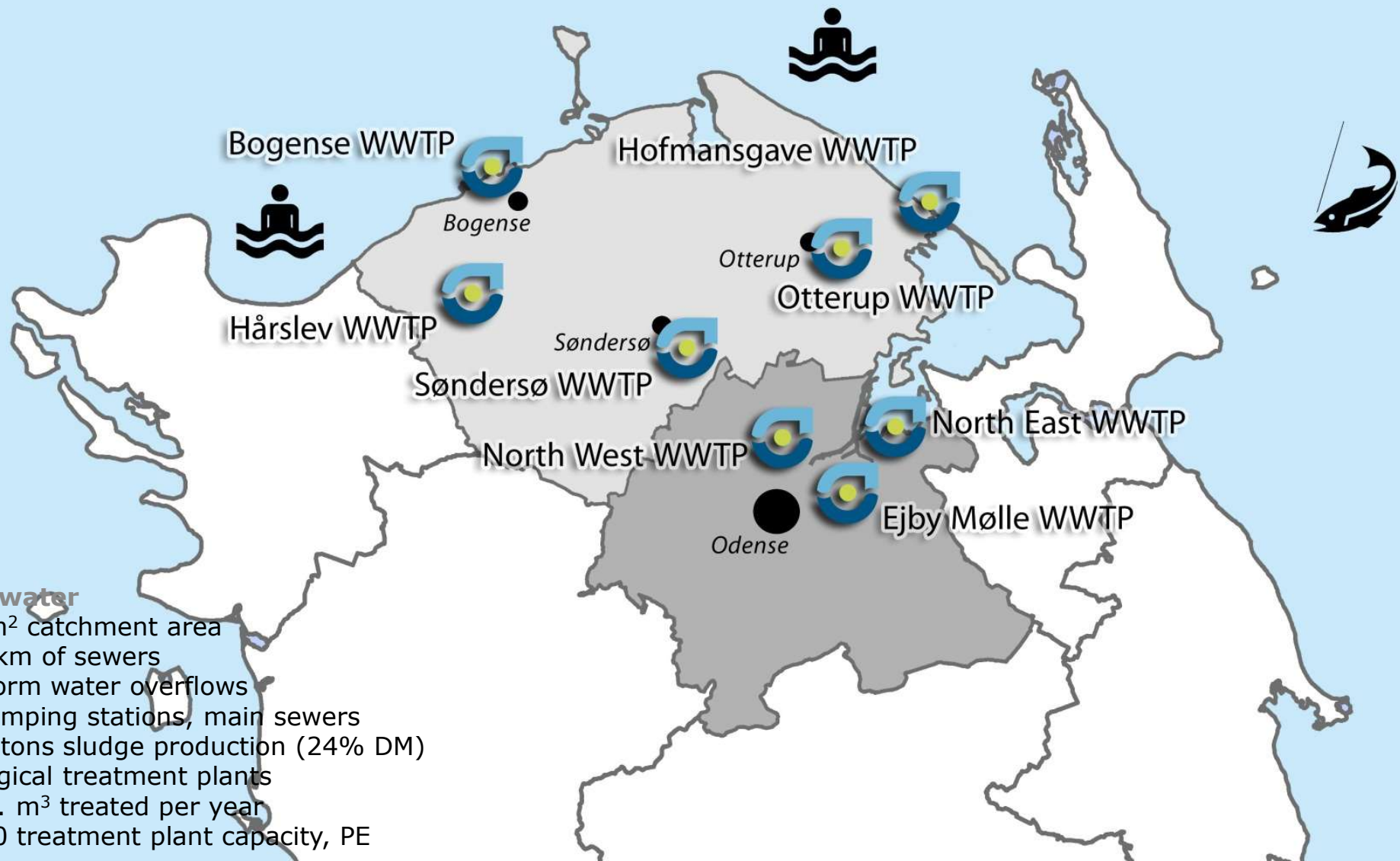


- Established 1853
- Odense – 3rd largest city in Denmark
- 225 employees
- 6 WTPs ~180,000 customers
- 8 WWTPs ~235,000 customers
- Energy neutral utility in 2019
- Committed to innovation



Wastewater

115 km² catchment area
2,200 km of sewers
390 storm water overflows
300 pumping stations, main sewers
23000 tons sludge production (24% DM)
8 biological treatment plants
36 mill. m³ treated per year
582200 treatment plant capacity, PE



Drinking water

45 production wells

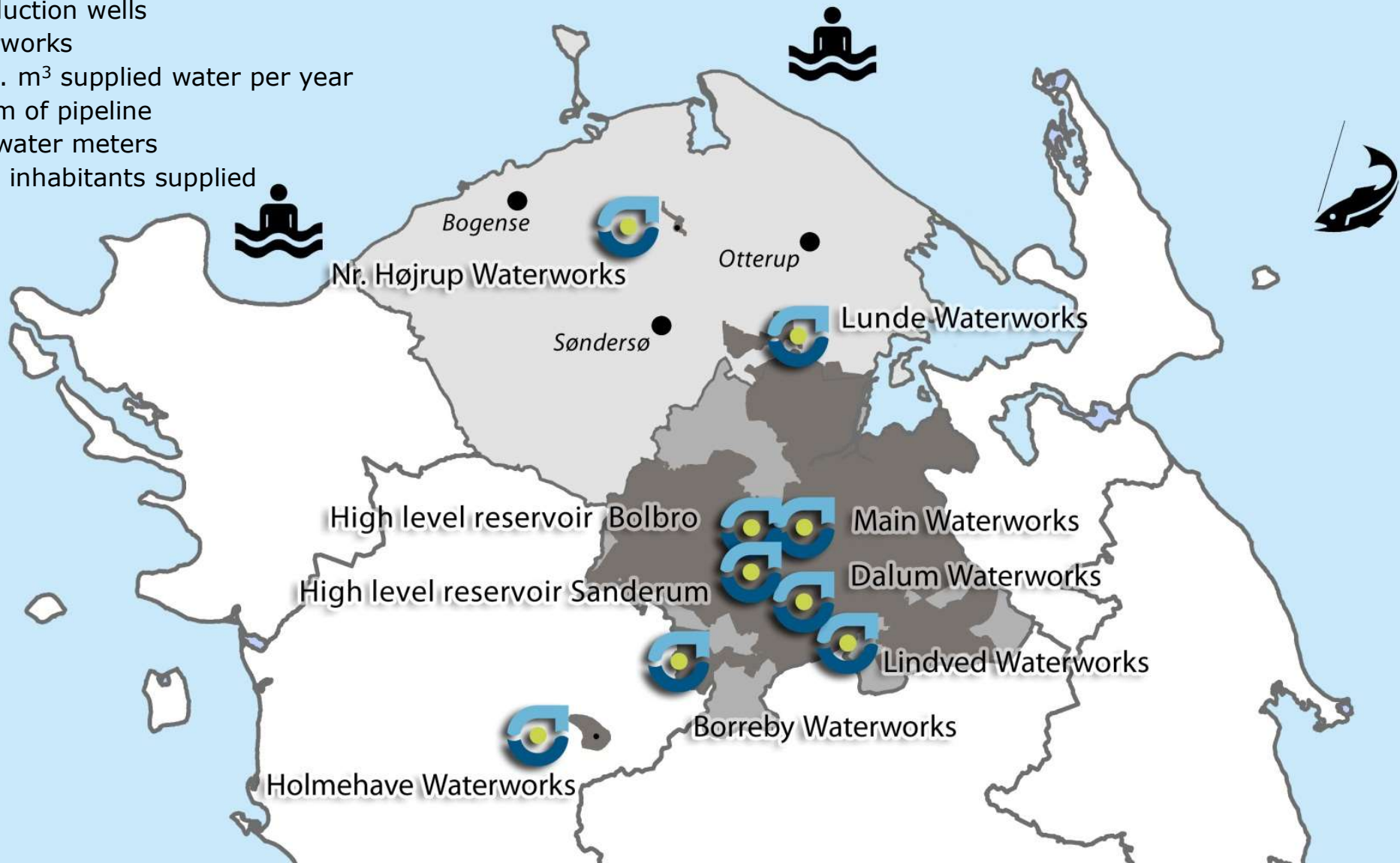
7 waterworks

9.1 mill. m³ supplied water per year

1029 km of pipeline

49000 water meters

164000 inhabitants supplied








6 Clean water and sanitation
 7 Affordable and clean energy
 9 Industry, innovation and infrastructure
 12 Responsible consumption and production
 14 Life below water



SDGs and vision goals

<p>Prioritized SDGs</p> <p>Our vision goals</p>	<p>6 CLEAN WATER AND SANITATION</p> 	<p>7 AFFORDABLE AND CLEAN ENERGY</p> 	<p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> 	<p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p> 	<p>14 LIFE BELOW WATER</p> 
Drinking water production based on clean groundwater in 2050	●				
An aquatic environment in good ecological condition in 2027	●		●	●	●
Climate neutral in 2050		●	●	●	
The world's most resource-efficient water company in 2030				●	
Future-proof, flexible and sustainable infrastructure for managing the entire water cycle in 2050	●	●	●	●	●



Together on sustainable development

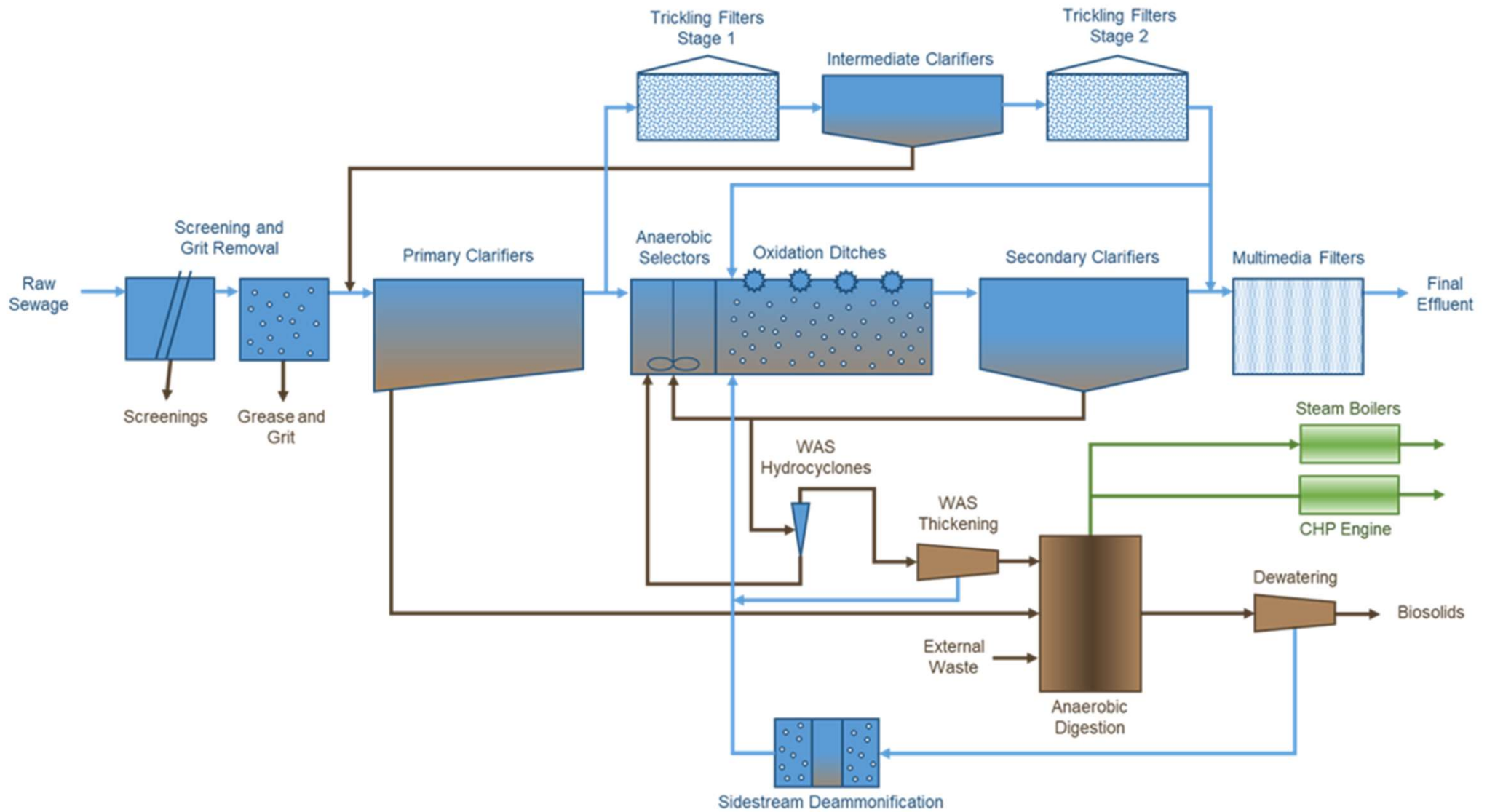
Strategy 2020 – 2024

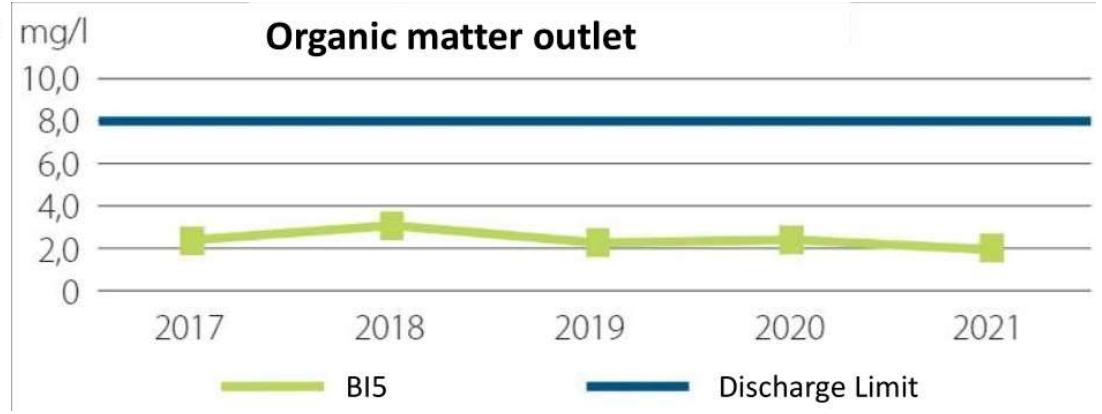
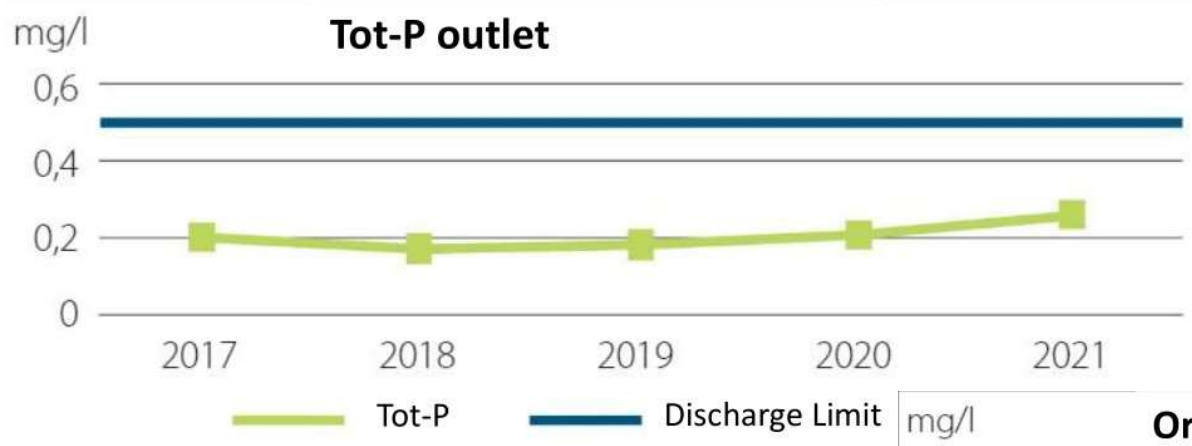
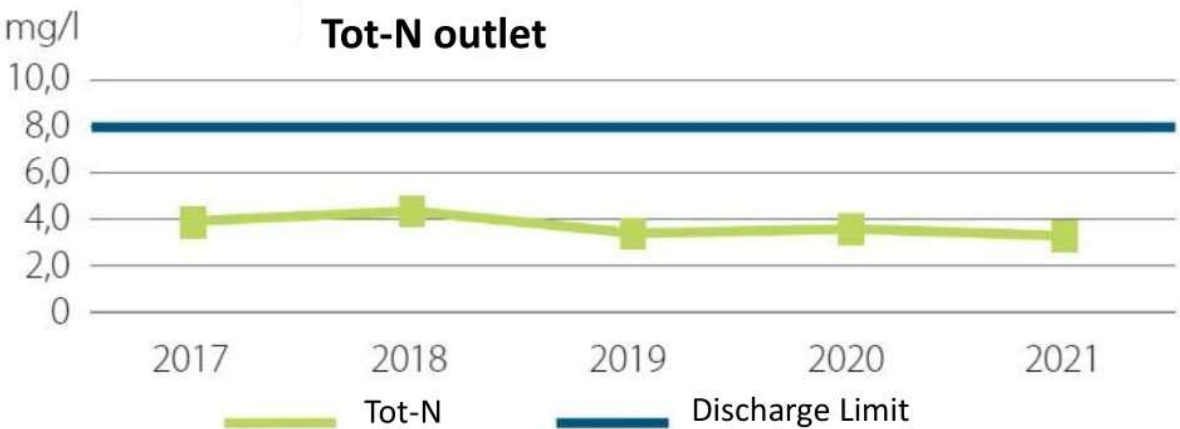


3VAND

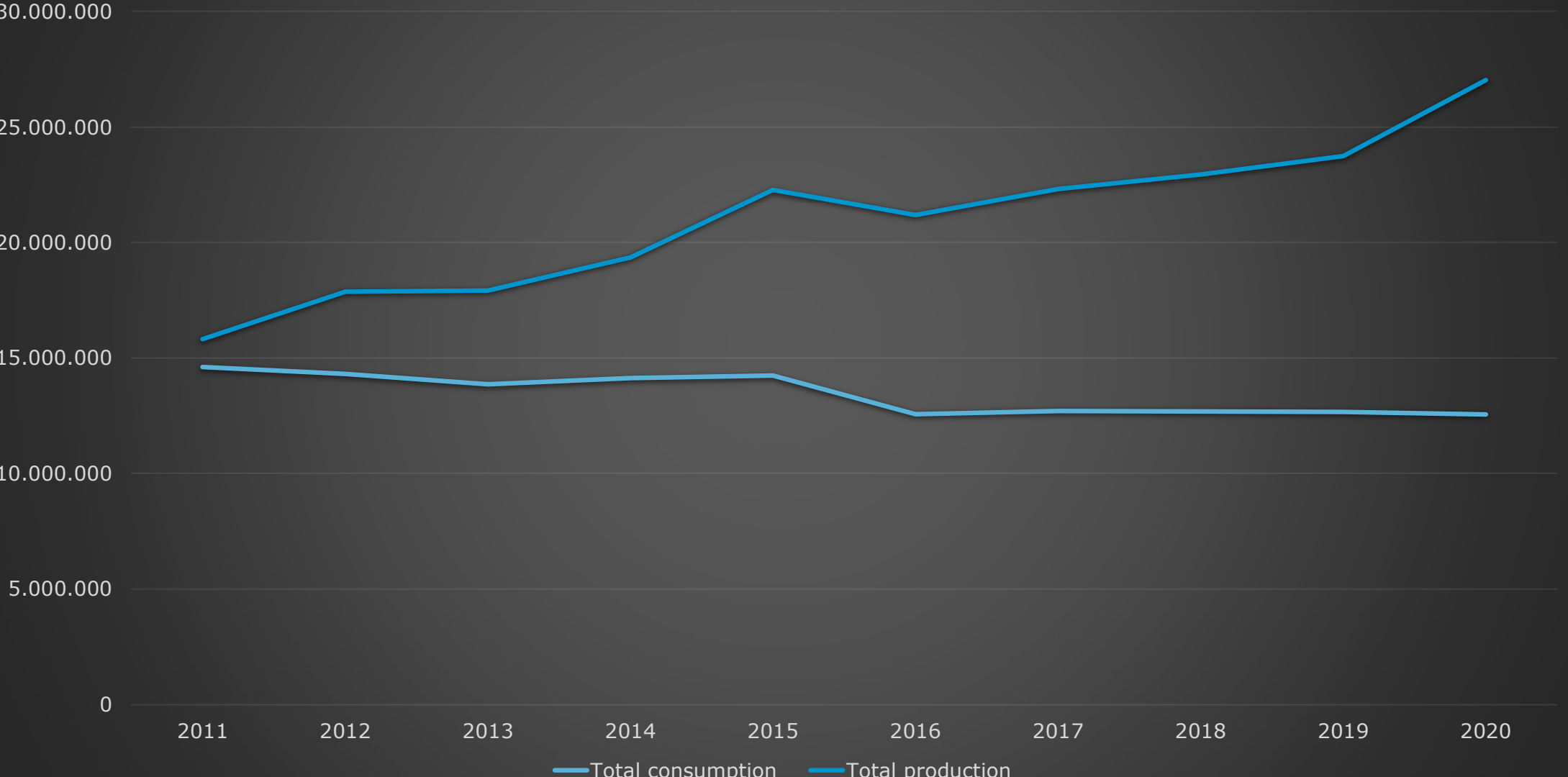




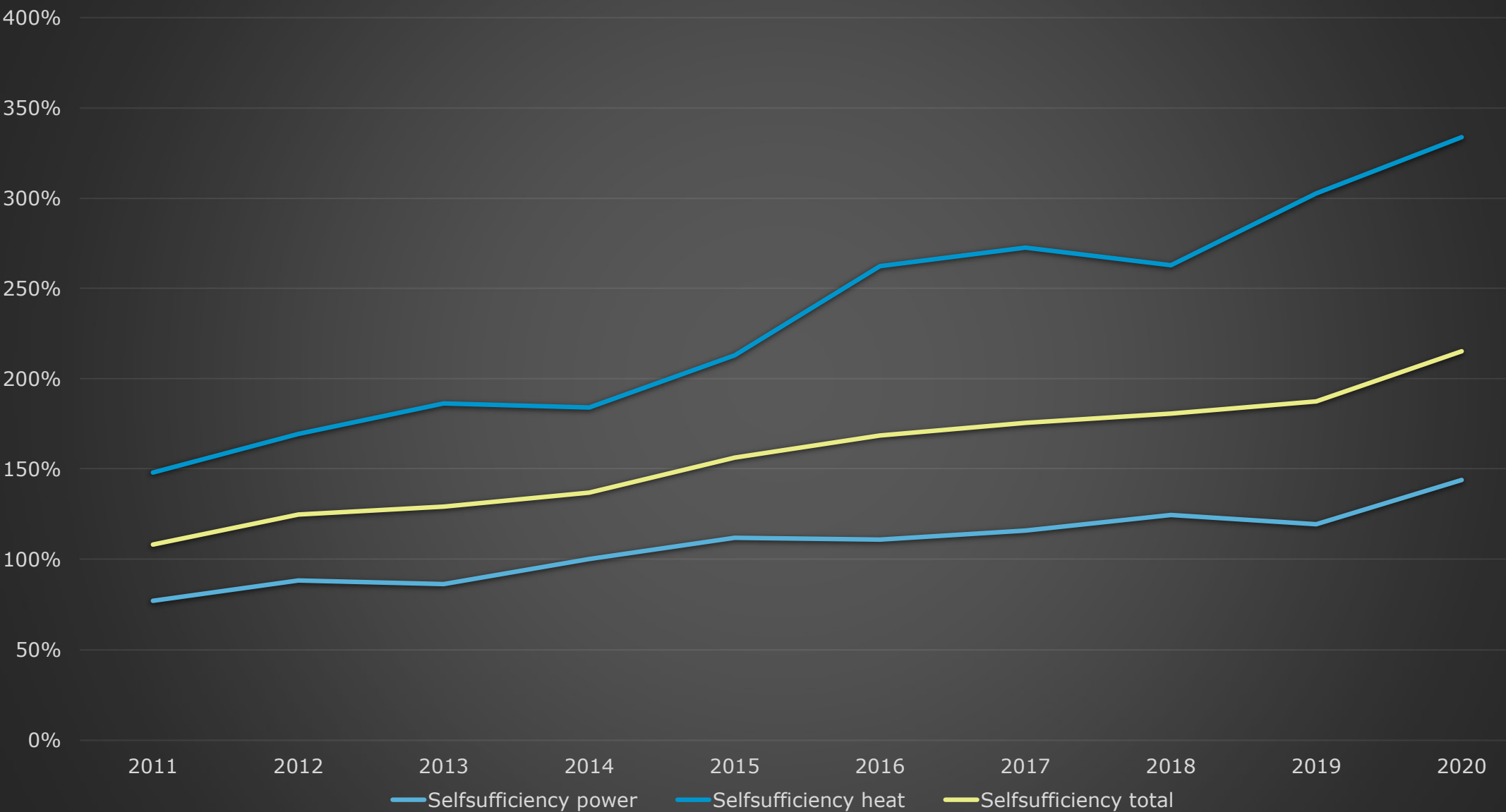




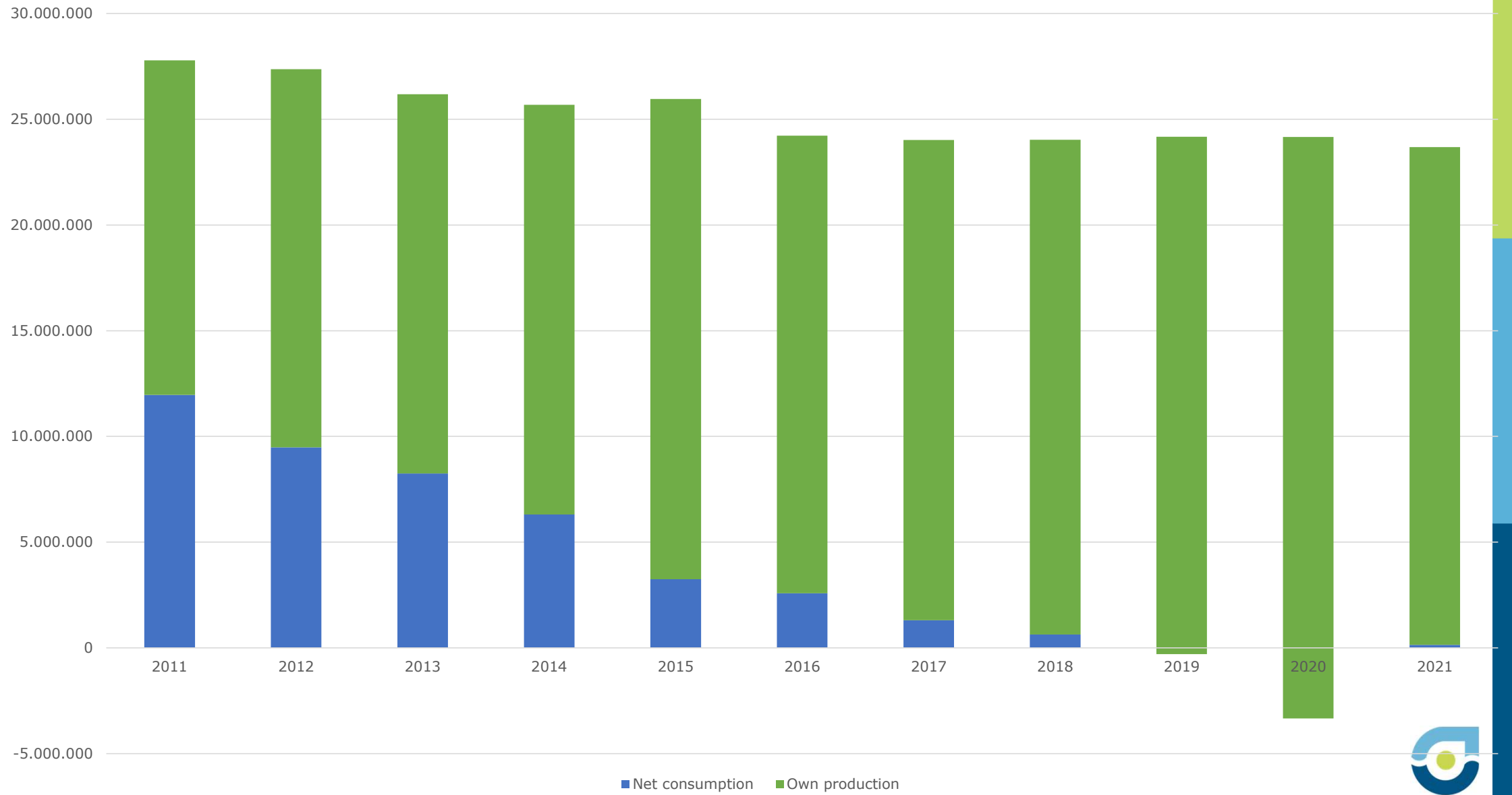
Energy consumption and production Ejby Moelle WRRF (kWh/year)



Self-sufficiency Ejby Moelle WRRF



Energy balance VCS Denmark – all activities

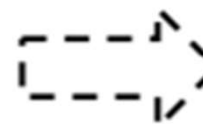
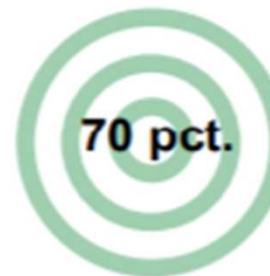




Omstillingselementer: *Kendte*
Politisk fokus på kort sigt: *Konkrete virkemidler*



Omstillingselementer: *Nye*
Politisk fokus på kort sigt: *Planlægning og udvikling*



2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2050



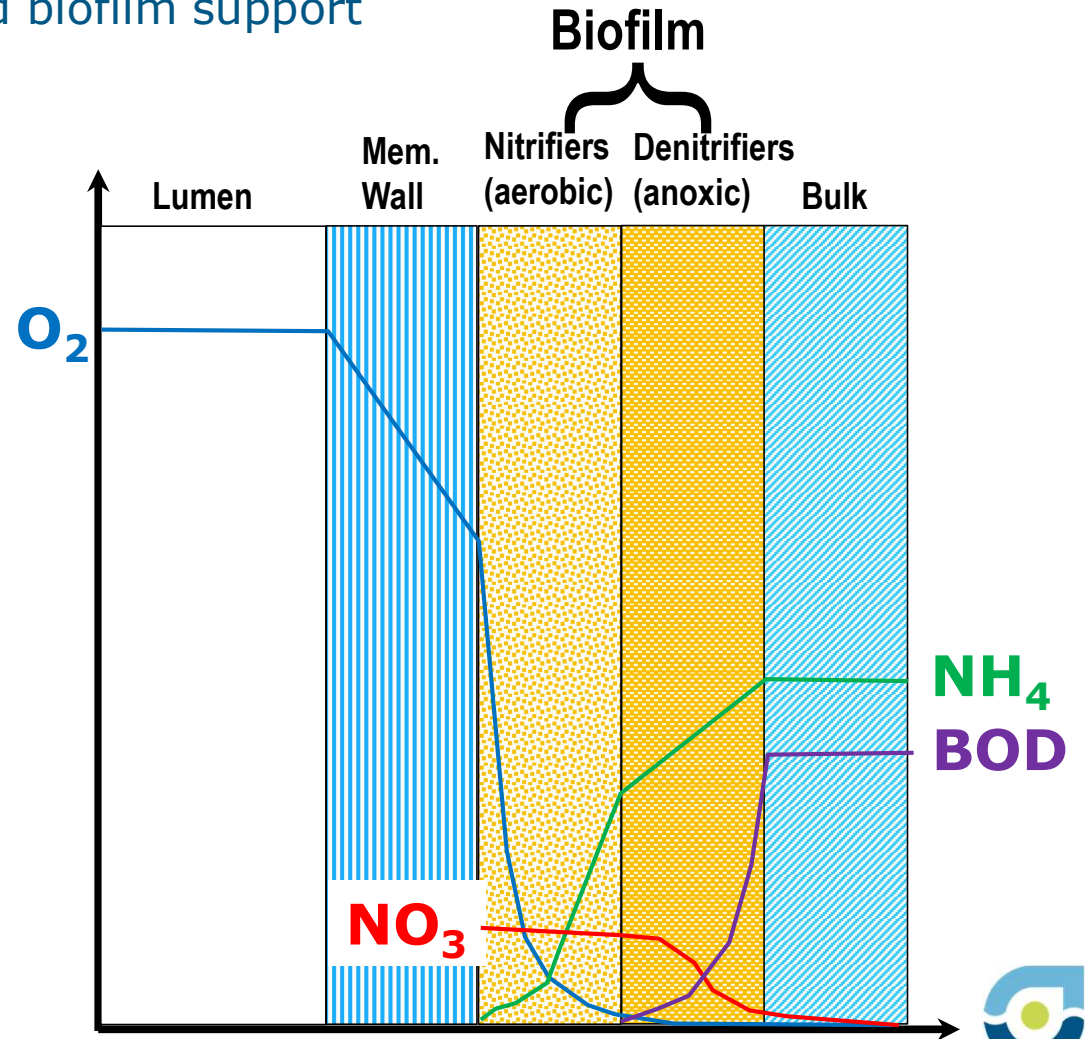
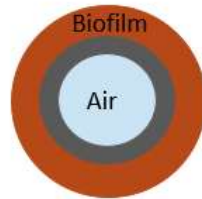






Membrane Aerated Biofilm Reactor

Hollow fiber membranes for gas transfer and biofilm support



Phosphorus harvesting





[The case of VCS Denmark – progress beyond net energy production - The Source](#)
 [\(thesourcemagazine.org\)](http://thesourcemagazine.org)





Thank you