

A photograph of a wastewater treatment plant. In the foreground, there are several large circular aeration tanks with brownish water. In the background, there are several white wind turbines against a clear blue sky. The overall scene is industrial and green.

Benefits sheet:
Municipal
wastewater
sludge
treatment

AquaGreen
has developed
the technology
together with the
**Technical
University
of Denmark**
(DTU)

**Adopt the circular economy:
turn your sewage sludge into
resources while eliminating
organic pollutants.**

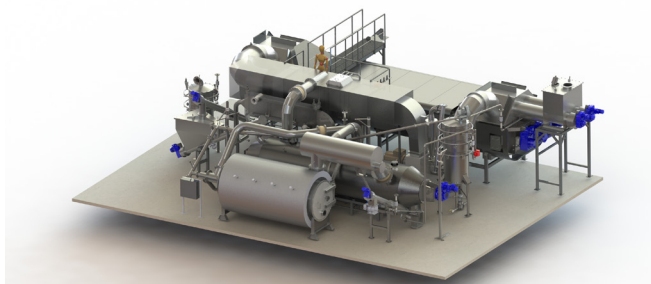
The groundbreaking AquaGreen technology dries sewage sludge using energy from the sludge itself.

This is made possible thanks to our patented integrated steam drying and pyrolysis plant.

The pyrolysis process eliminates microplastic, medicine residues and all other harmful organic compounds, turning the dried sludge into biochar and thermal energy.

Benefits of AquaGreen HECLA® Setores 1.000 processing sludge from a 50.000 PE treatment plant

Meet your **environmental, climate, and economic** targets

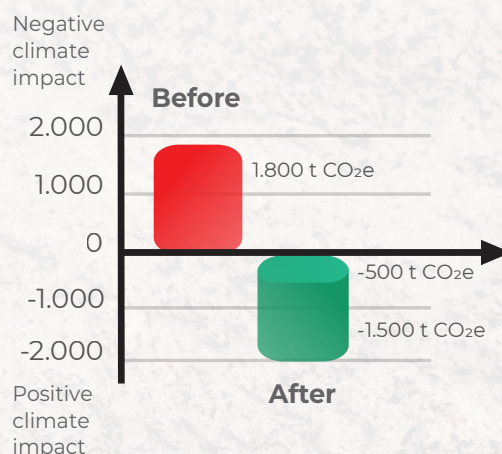


You reduce pollution and recirculate nutrients:

- No PFAS/micropollutants in soil and groundwater
- No malodor or health risks
- 10x less transport volume
- 25 tons of life-critical phosphorus recirculated

You eliminate greenhouse gas emissions:

- 1.800 tons CO₂e emissions reduction¹
- 500 tons CO₂e stored in biochar
- 2.000 MWh energy produced (1.500 tons CO₂e reduction²)



You reduce costs and generate revenue:

- Sludge transport and handling cost are reduced up to 90%
- Carbon removal credits trading at 100€/ton CO₂e
- Biosolids biochar can be upgraded to valuable active carbon-like filter material

Savings	Profit
Disposal costs	Thermal energy
Logistic costs	Biochar
Operational costs	Activated carbon
Environmental costs	Carbon removal credits

References:

1. Based on LCA by Thomsen, T.P, DTU (2018) "Drying and pyrolysis of sludge - in a climate perspective"
2. Oil-based power production CO₂ emission according to www.world-nuclear.org



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