



AquaGreen

Biomass treatment

We turn a problem into a resource

Business og Affaldsdating

21-06-15, Christian Wieth CMO



Commercial waste pyrolysis

AquaGreen's Integrated Steam Dryer and Pyrolysis system is a game changer

Unique Technology

- Continuous and fully automated
- Steam drying and pyrolysis at 200 and 650°C
- 2 patents pending (jointly with DTU)

Key facts

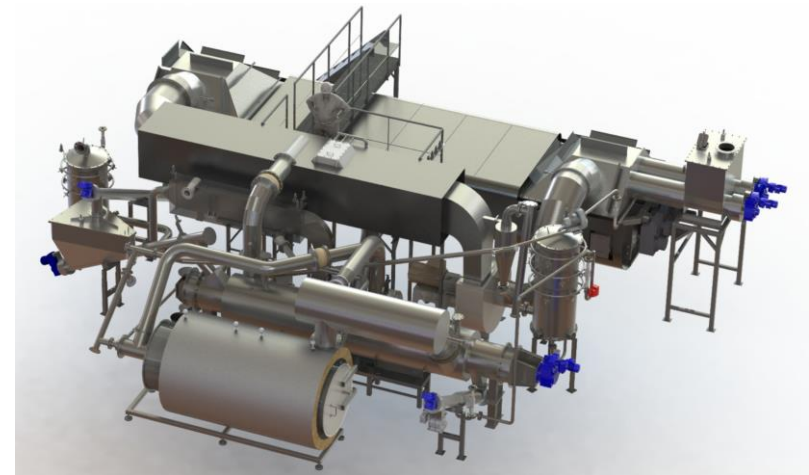
- Being commercialised now in 2021
- 10 x reduction in wastewater sludge weight
- Eliminates organic pollutants

Business model

- AquaGreen own the engineering design and software
- Locally produced

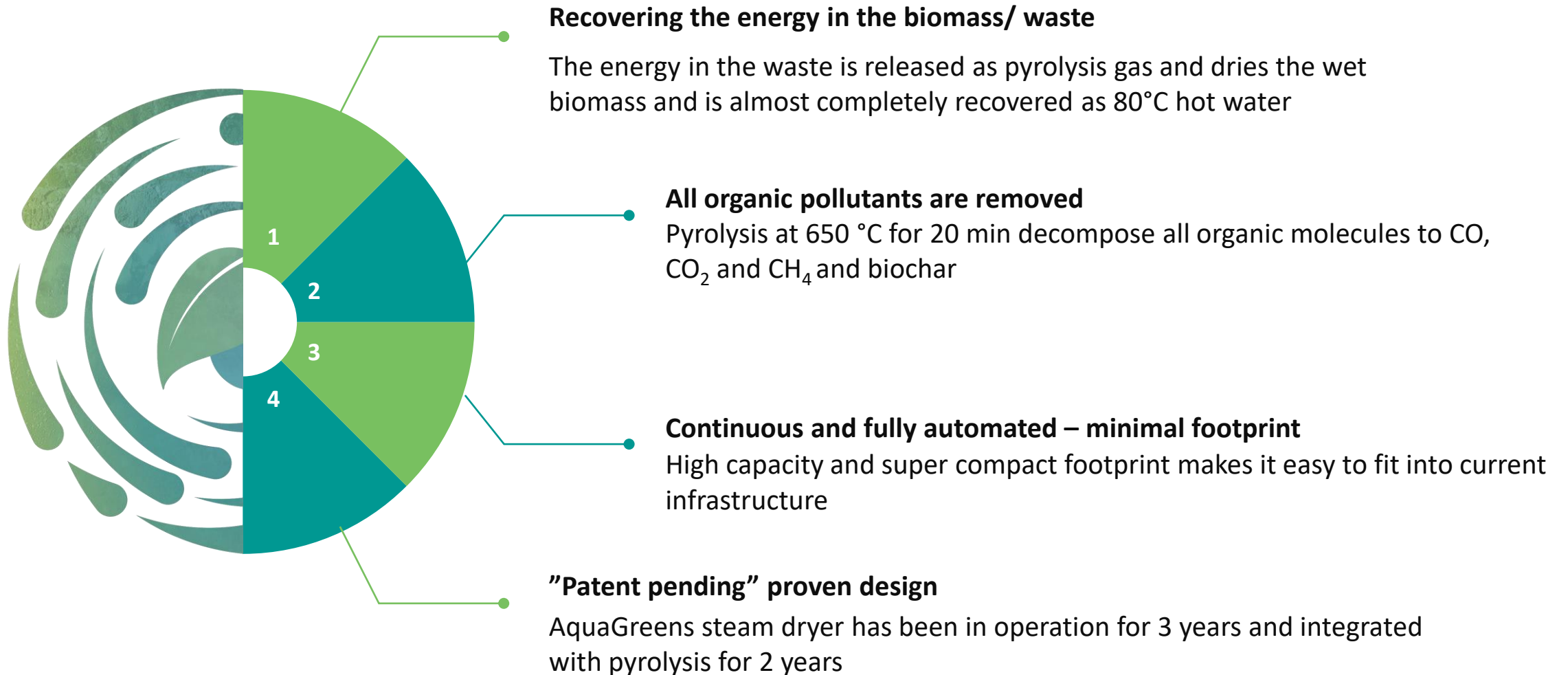
Main markets

- Wastewater sludge
- Horticultural and plastic waste under investigation
- Northern Europe





The leading way to dry and pyrolyze wet waste



Example: Horticultural waste

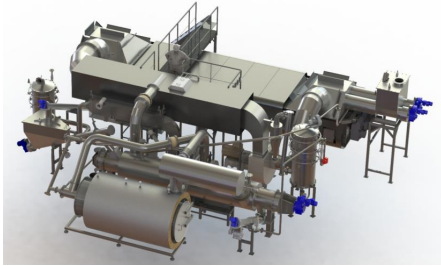
Income via renewable heat and carbon removal credits

1000 DKK/ton in profit

1 ton fresh
brush waste



(600 kg dry matter)



280 kg pyrolysis gas
1500 kWh
Used for drying of the
wet biomass

1300 kWh



280 kg biochar with
85 % carbon

Heat

Recovered as hot
water
0.30 DKK/kWh



400 DKK/ton
waste



Biochar

3.1 kg CO₂e/kg biochar
0.9 kg CO₂e/kg waste

600 DKK/ton waste in
“carbon removal credits”*



Additional benefits

Interested in hearing more?

Please contact me at
ChWi@AquaGreen.dk

1

Attractive ROI

Typically 3-7 years depending on current waste disposal costs

2

Minimal Opex

Continuous 24/7 operation fully automated

IOT data capture

3

Minimal emission to air

No bad smell due to negative pressure and burning of uncondensed gasses from drier

Low NOx burner and air scrubber

4

Handles all biomass/waste

Augers specially designed for sticky biomass such as lignin

No need for pelletising

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