

Pareto Securities'

Power & Renewable Energy Conference

QUANTAFUEL ASA

CEO Kjetil Bøhn

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QUANTAFUEL

A PIONEER WITHIN CHEMICAL RECYCLING

First plant taking mixed waste to high quality liquids

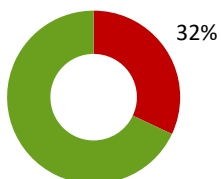


PLASTIC WASTE IS A MAJOR PROBLEM GLOBALLY

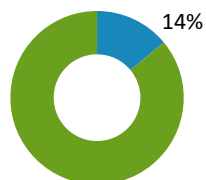
Quantafuel is a key enabler of a circular plastic economy

Plastic waste provides a significant global problem...

1 32% of all plastic packaging ends up in nature...



2 ... and only 14% of plastic packaging is recycled



3 World's oceans will contain more plastic than fish in 2050



>8 million tonnes

of plastic ends up in the ocean annually

4 Government, businesses and consumers are driving the increased focus on plastic waste recycling

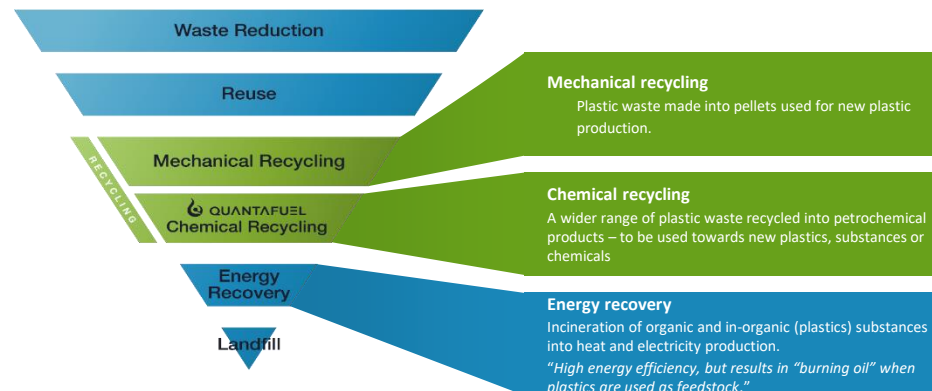


EU targets for plastic recycling

2025: 50%

2030: 55%

...that Quantafuel handles with chemical recycling



From non-recyclable plastic waste...

... to recycled liquids for the petrochemical industry



Recycled plastic products

A FIRM AND SUPPORTIVE POLICY TREND

EU regulation requires investment in new plastic recycling technology



► 2020: EU Green Deal

- Enormous reform program to support circular economy and green industry



► 2021: Plastic tax

- EUR 0.80 tax per kg non-recycled plastic



► 2021: Stricter waste shipment rules

- Means EU countries must build capacity to handle their own waste



► 2021/22: Requirements on recycled plastic content

- Will be introduced for packaging, construction materials and vehicles



► 2025: 50% recycling of plastic packaging

- Increases to 55% in 2025. Today's actual plastic recycling level is 10-20%



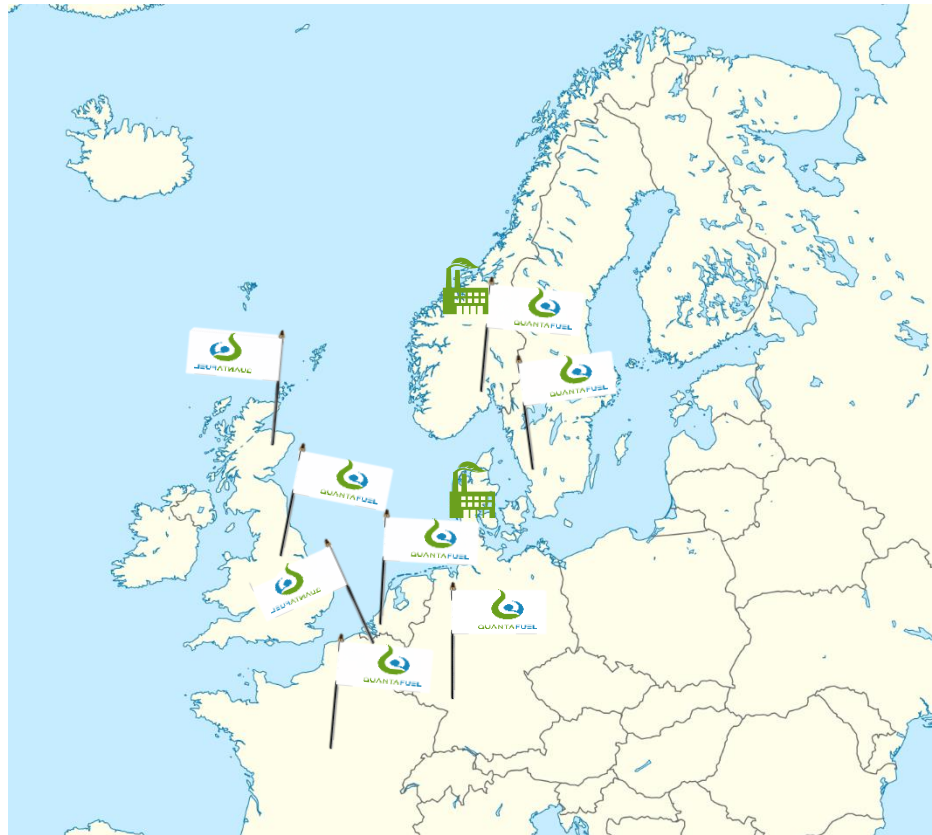
► 2030: 55% GHG reduction

- Target is codified in law and will trigger strong measures across industries

QUANTAFUEL TODAY

Two recycling plants with clear plans for further expansion

Geographical presence



Recycling plant



High interest markets

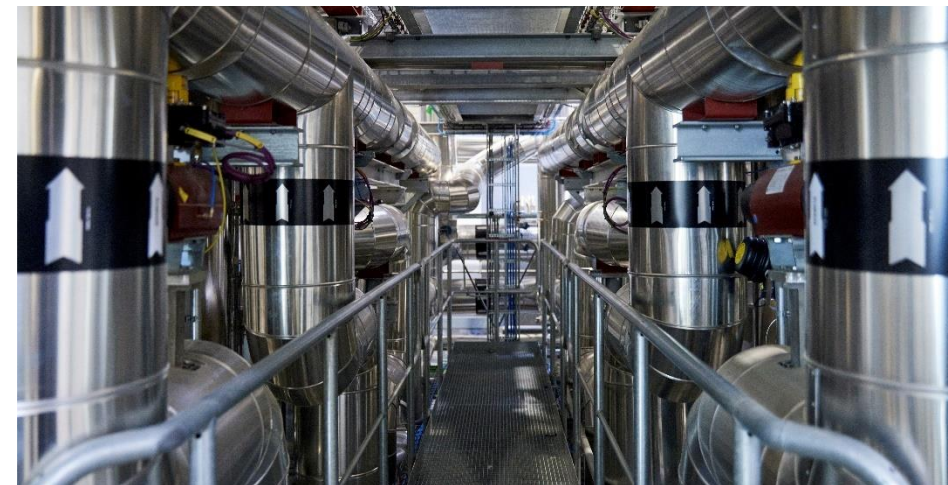


~65 FTEs



HQ in Oslo, Norway

The Skive plant (Denmark)

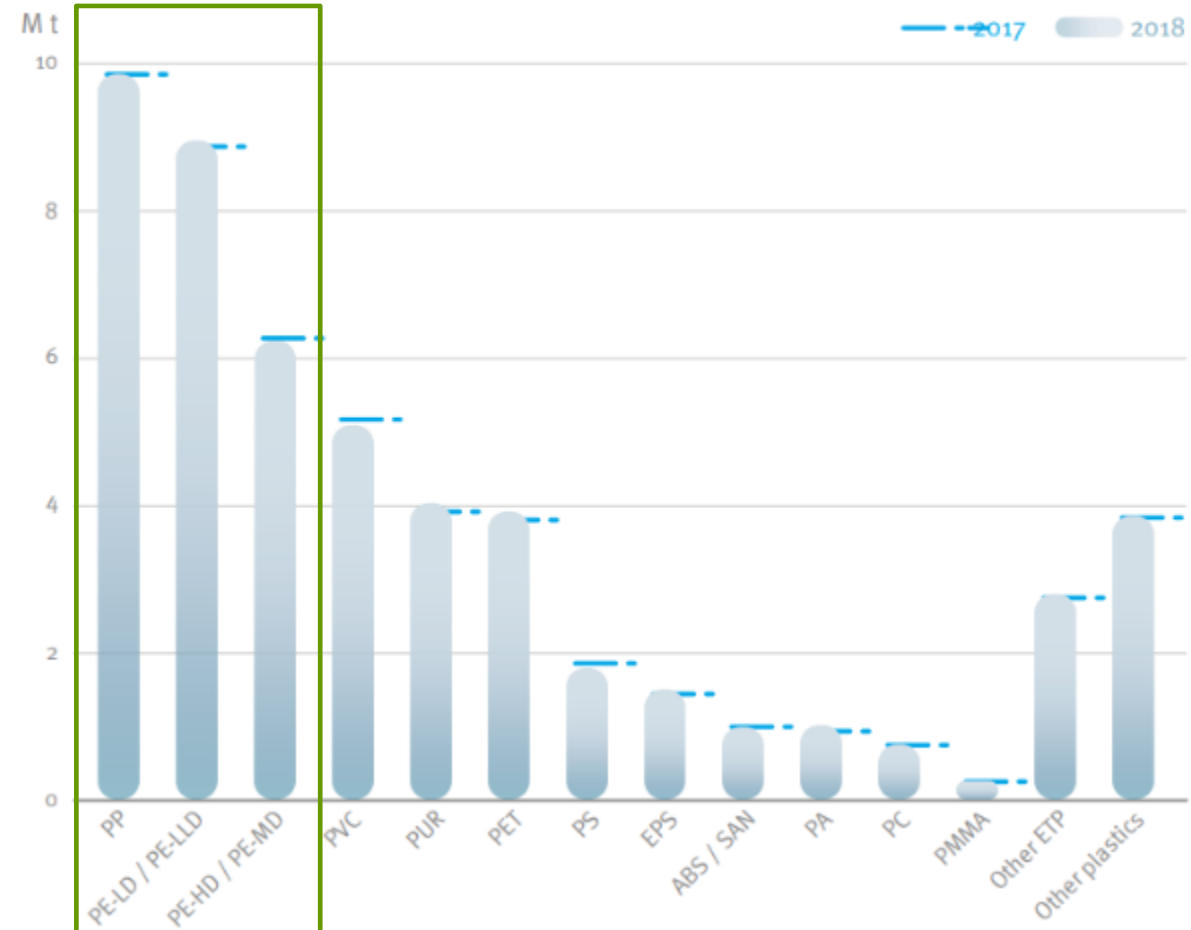


EU PLASTIC MARKET GOING FROM WASTE EXPORTER TO RECYCLER

The move from world's biggest waste exporter to recycler

- Quantafuel primary feedstock \approx 50% EU polymer demand
- 29.1 million tonnes plastic waste annually
 - >60% is plastic packaging
- 40% decrease in plastic waste export (2016 – 2018)

EU Annual Polymer Demand



Sources: Plastic Europe : Plastics - the Facts 2019

TAKING CONTROL OF THE FEEDSTOCK VALUE CHAIN

- ✓ Feedstock project with Grønt Punkt & Geminor yields invaluable experience
- ✓ Quality control drastically reduces risk of unwanted material e.g. PVC, Lithium batteries
- ✓ High potential in receiving high gate fee levels
- ✓ Compliance with EU regulations through tracking the entire valuechain



RECYCLING OF PLASTIC WASTE IS CHALLENGING

Mechanical recycling has limitations – pyrolysis is not enough



Mechanical recycling

- ✓ Mechanical recycling has limitations and is energy intensive
- ✓ Mechanical recycling is mostly downcycling to lower grade products

Pyrolysis of plastic

- ✓ Has existed for a long time
- ✓ Produces an impurified oil and waxes
- ✓ Needs further upgrading that is energy demanding

UNIQUE SOLUTION TO PURIFY AND UPGRADE

Quantafuel's technology starts where others stops.....

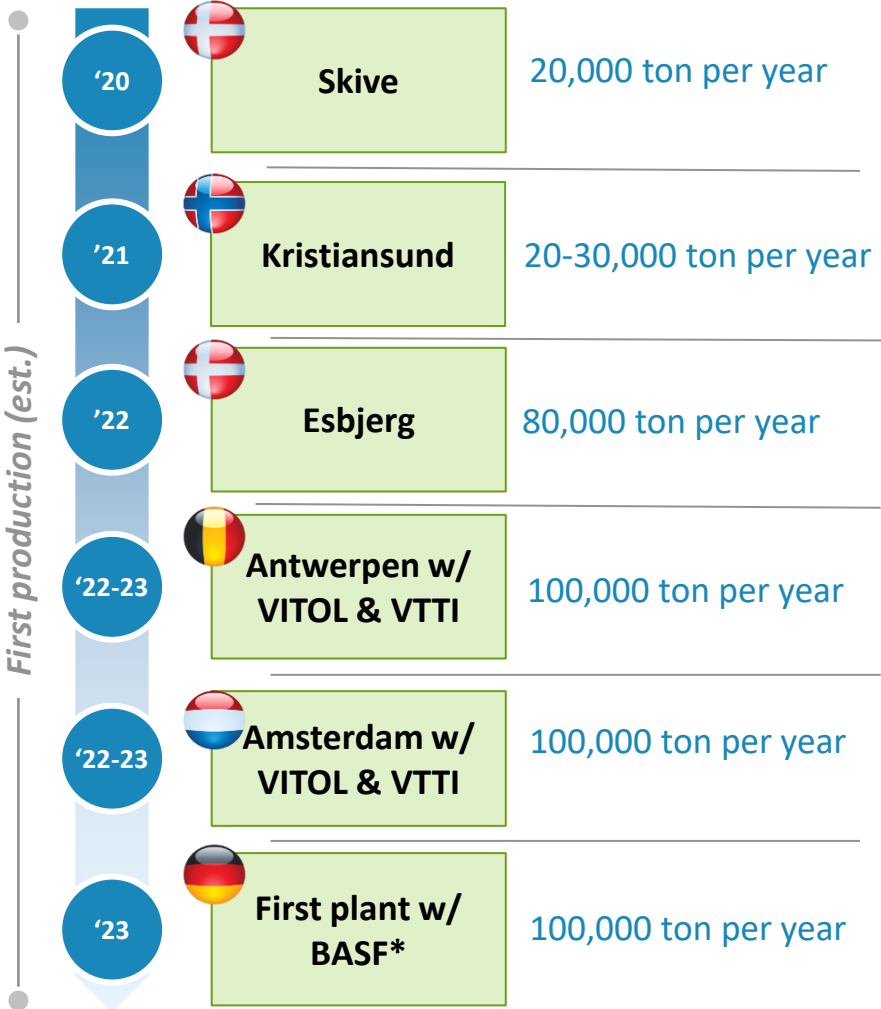


- ✓ Removes ash particles, oxygen, nitrogen, chlorine and sulphur
- ✓ Changes the molecular structure
- ✓ Produces 800 kg of products from 1 ton of plastic with 90% CO2 reduction
- ✓ Uses the light fractions to run the reactors
- ✓ Ash fraction goes to energy production



PRODUCTION PLANTS AND PIPELINE PROJECTS

Several additional production plants planned with existing partners



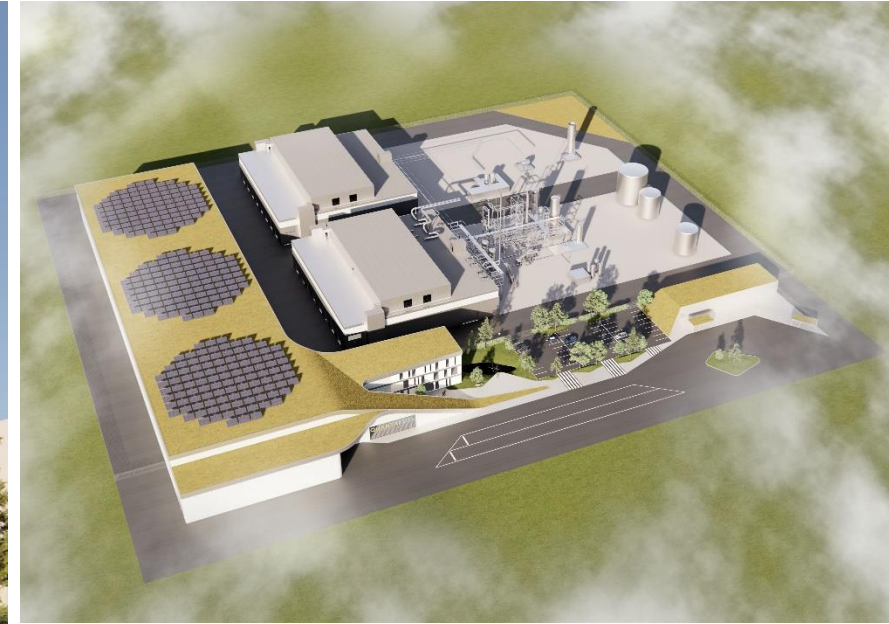
* QFUEL indication/estimate

OUR PRODUCTS ARE GREEN, OUR PLANTS WILL BE TOO

Sustainability at the core in early stages of planning



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- We are aiming for DGNB Gold certification
- Sustainable and recycled materials
- Energy efficient solutions
- Green areas
- Open facilities where visitors can engage



CAN RECYCLING COMPETE WITH OIL AND GAS?

Or is big always beautiful?



Raw material:	<i>Income</i> of up to USD 80 per ton
Process:	Fully-automated small scale
Market prices:	USD 300-700 premium to commodity prices



Raw material:	Cost of USD 300 per ton
Process:	Efficient large-scale model
Market prices:	Commodity prices

Additional margin: USD 600-1,000 per ton

THIS WILL BECOME A MULTI-BILLION DOLLAR INDUSTRY

Why can it not be Quantafuel that becomes the market leader?



Quantafuel ASA

Ticker: QFUEL

Euronext Growth



www.quantafuel.com

IR@quantafuel.com