

ABGSC Renewable Energy & Cleantech Seminar

QUANTAFUEL ASA

CEO Kjetil Bøhn

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QUANTAFUEL

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PLASTIC WASTE IS A MAJOR PROBLEM GLOBALLY

Quantafuel is a key enabler of a circular plastic economy



- 
- 1 *32% of all plastic packaging ends up in nature...*
 - 2 *... only 14% of plastic packaging is recycled*
 - 3 *World's oceans will contain more plastic than fish in 2050 ~ 8 million tonnes per year*
 - 4 *EU to increase recycling to 50% by 2025 and impose EUR 800 per ton tax on virgin plastic*

A PIONEER WITHIN CHEMICAL RECYCLING

First plant to take mixed waste to high quality liquids



...that is critical for enabling a circular plastic economy



WHY CAN'T WE JUST GET RID OF PLASTIC ?

Fastest growing man-made substance

Why is plastic valuable?



1/3 of food globally ends up as waste; plastic packaging is a likely solution



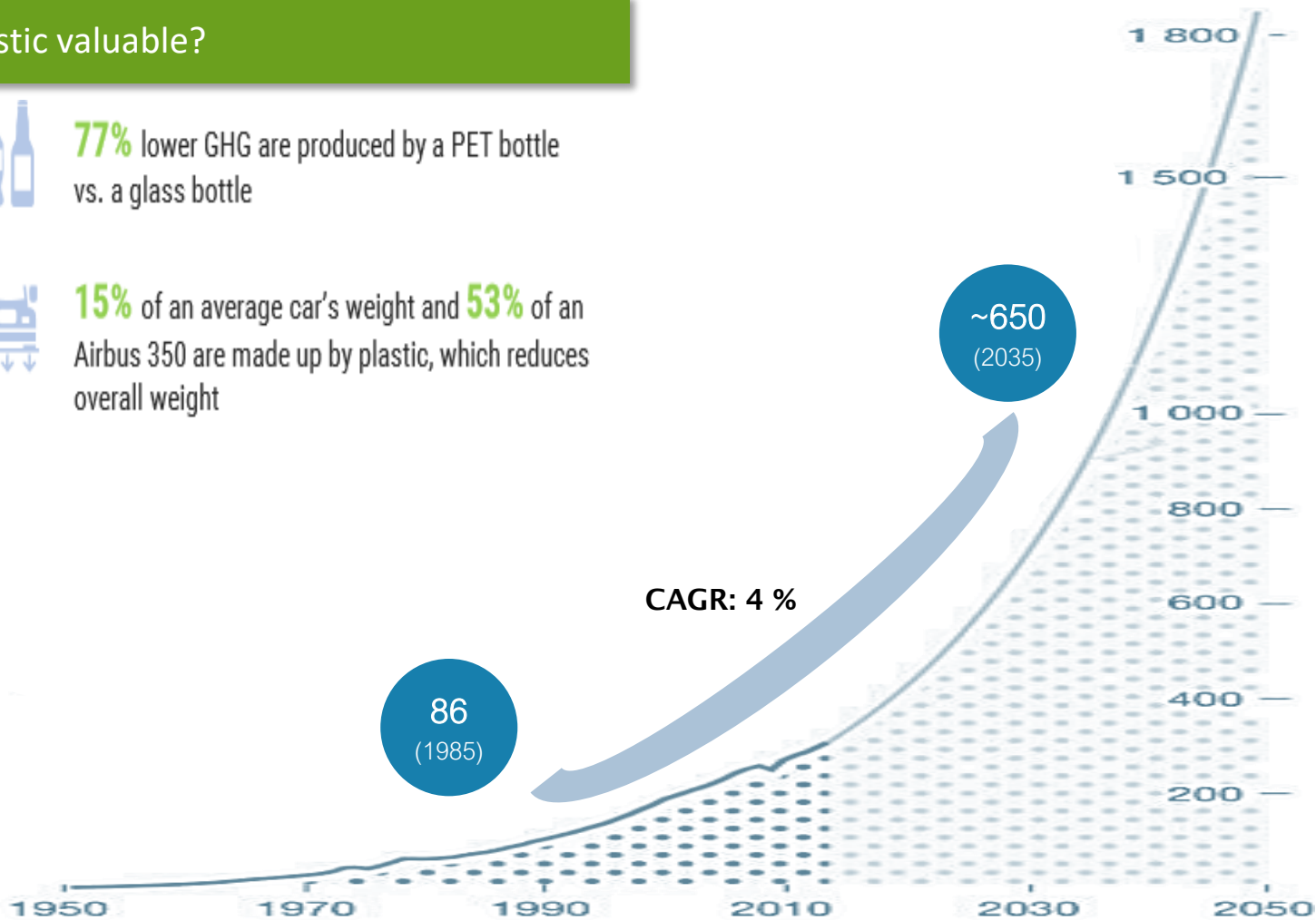
77% lower GHG are produced by a PET bottle vs. a glass bottle



Alternative packaging is **~4x** the volume/weight of plastic packaging



15% of an average car's weight and **53%** of an Airbus 350 are made up by plastic, which reduces overall weight



USD 75 BILLION MARKET WITHIN 10 YEARS

"Everyone" is onboard for the race



"Neste targets to process more than one million tons of plastic waste annually by 2030."



WORKING FOR THE FUTURE



"REMONDIS has initiated a project to develop and operate chemical recycling facilities."



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.....



QUANTAFUEL

- ✓ 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



STRATEGIC PARTNERSHIPS

Secured strong partnerships providing capital, competence and offtake



“
*We’re going to turn it into the
biggest plastic recycler in the
world*”

Russell Hardy
CEO Vitol



“
*The partnership is a first step
to build up a broad supply
base for Chemcycled products*”

Hartwig Michels
President Petrochemicals BASF

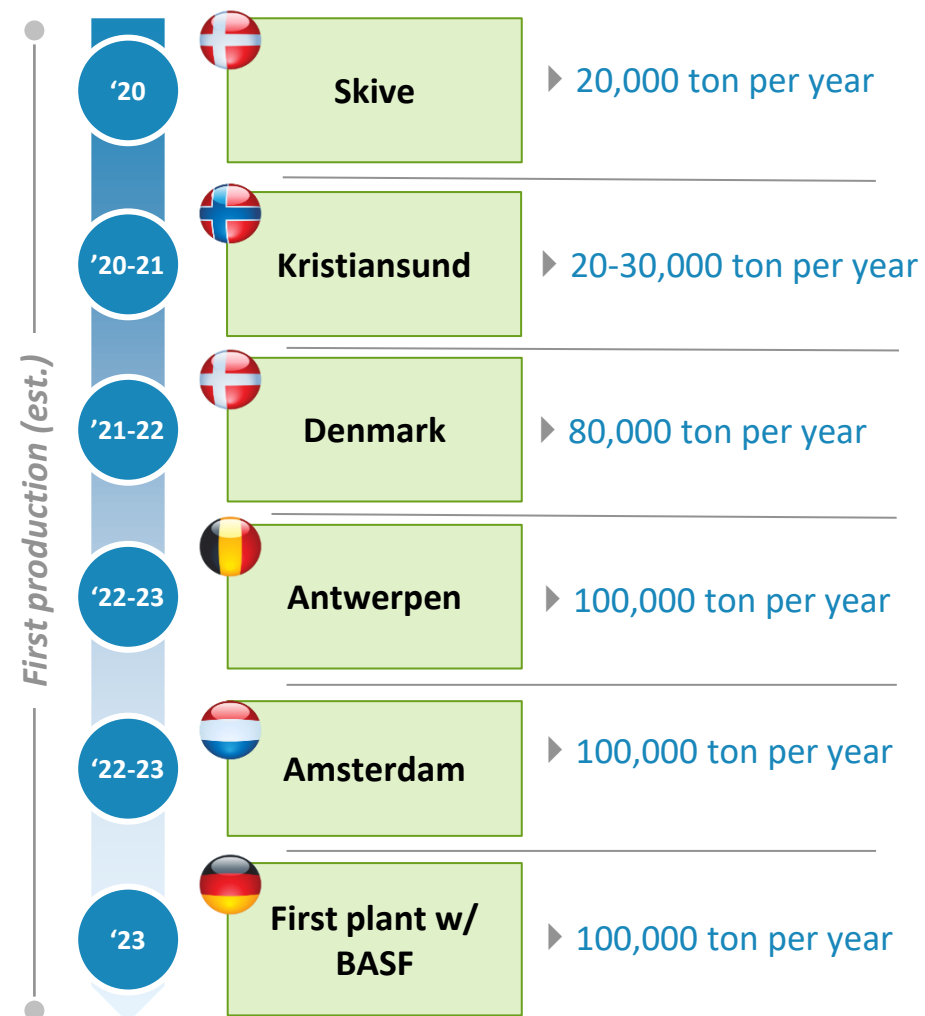


“
*Quantafuel has taken an
innovative and scalable
approach to solving a key
problem*”

Thomas Lau Schleicher
Chief Investment Officer KIRKBI

PRODUCTION PLANTS AND PIPELINE PROJECTS

Several additional production plants planned with existing partners



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

WHAT IS THE ECONOMICS OF A 100,000 TON PLANT?

Approx USD 100 million CAPEX



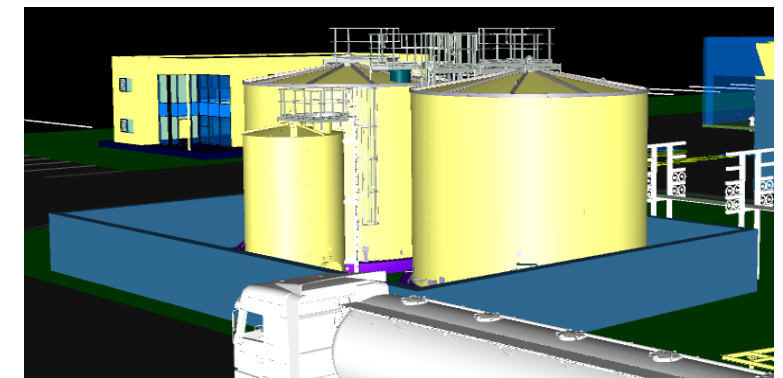
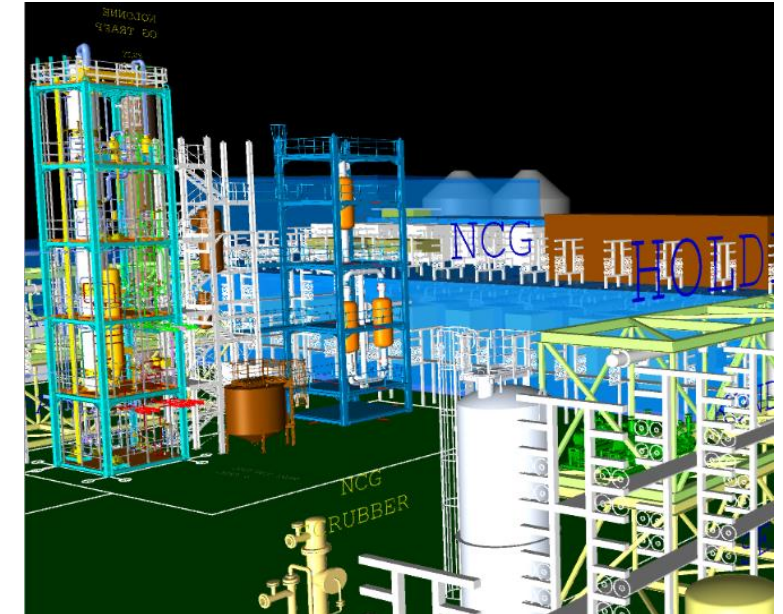
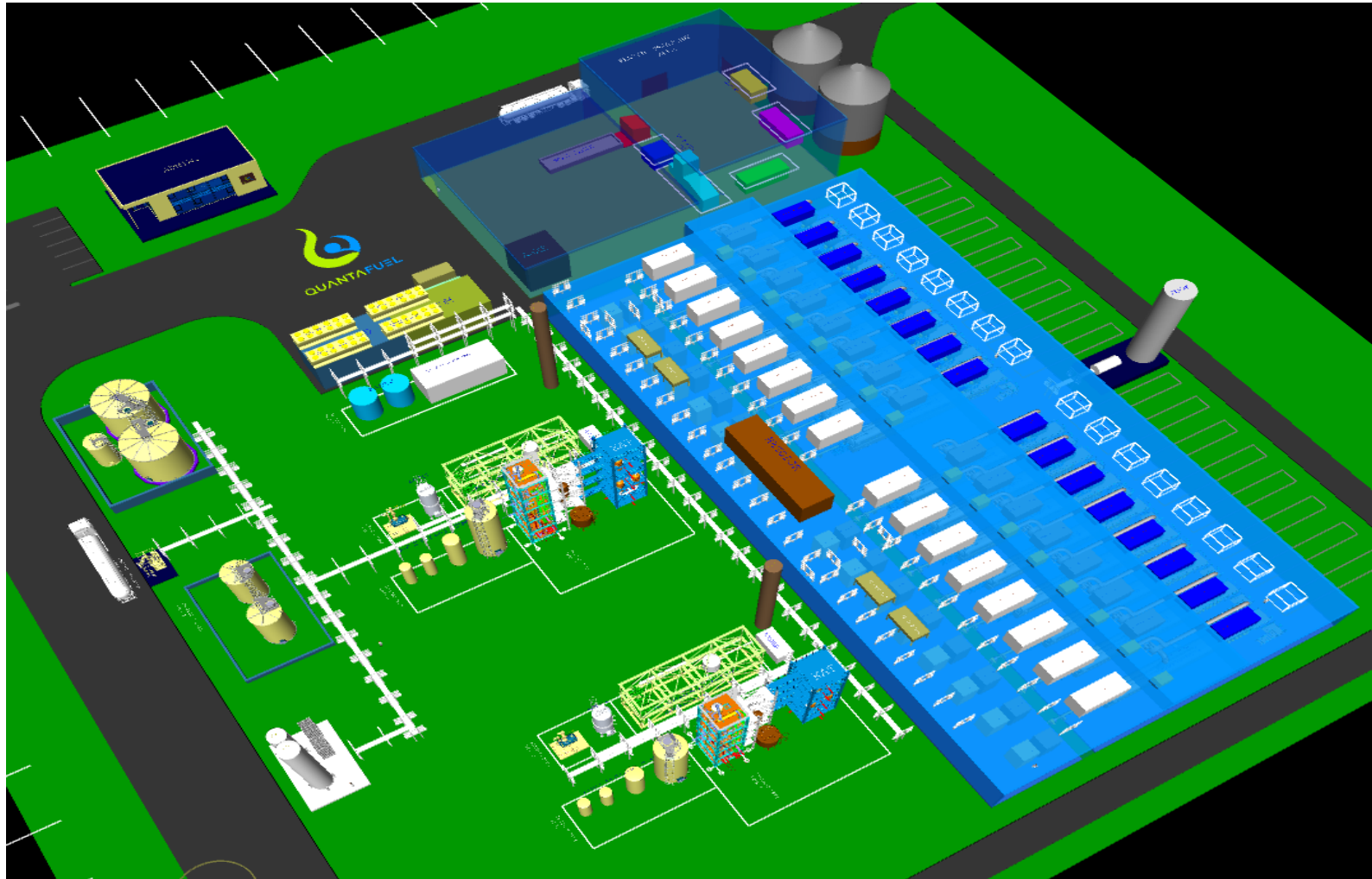
VTTI terminal Amsterdam (Vitol sub.)

Process capacity	100,000 ton per year
Products produced	80,000 ton per year
Estimated market price	USD 1,000 per ton
Revenue per year	USD 80 million
OPEX (direct/indirect)	USD 25 million
Licence fee (to Quantafuel ASA)	USD 5 million
EBITDA per plant	USD 50 million

Indicative and preliminary figures

PREPARING FOR AN INDUSTRIAL SCALE ROLL-OUT

FEED study with Rambøll is the first step



THIS WILL BECOME A MULTI-BILLION DOLLAR INDUSTRY

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



QUANTAFUEL





www.quantafuel.com

IR@quantafuel.com