

Transforming plastic waste into valuable low-carbon products



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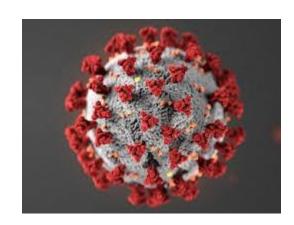
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Impact of corona

- All employees in Norway working from home
- No lay-offs planned
- Progress in Denmark, but with reduced manning on site, app 50%
- Challenges with suppliers not able to travel
 - China
 - Switzerland
- Some challenges with supplies of parts
- Sufficient financing to stand through completion and through the year.
- Working on support packages both in Norway and Denmark









Feedstock handling system





4 Pyrolysis reactor







Unique catalyst solution











Distillation column and storage





Partners supporting our strategy



- Worlds largest oil trader
- 40 offices worldwide
- 5441 employees
- Revenue 231 BUSD

Main interests

Blend-in fuels

JV-ownership of plants

Strong willingness to invest in SPV plants in Europe



- One of Europe's leading companies in supply of waste for recycling and energy recovery
- Delivers more than 1,4MT of waste to 80 recycling companies

Main interests

Delivery of on-spec feedstock to Skive and future sites

Storage, logistics management, transport and pre-treatment of feedstock

Strong willingness to invest in Sorting and treatment technology to accommodate increased demand



- Worlds largest chemical company
- 41 offices worldwide
- 115 490 employees
- Revenue 65 BEUR

Main interests

Produce recycled plastic products

Develop Naphtha in joint ownership of IP

Create circular recycling through linking petrochemical industry

Strong willingness to invest in Quantafuel plants in JV



- Specialized in research, development, production of catalysts
- Office in Malmø
- Lab to synthesizing and testing catalysts

Main interests

Test, maintain and optimize new and existing catalysts for Quantafuel

Main partner for development of New naphtha-catalyst

Chemical and technical support in due-diligence work



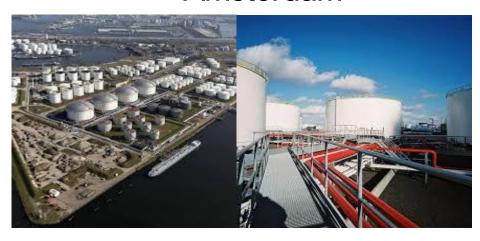
Started preparation for two large scale projects – goal of 5

- Aligned to start preparation for two large sites
- Antwerp and Amsterdam
- 100.000 ton + capacity per location
- Pre-engineering, site allocation, permitting, feed-stock supply, location, budgets
- 50/50 JV structure Vitol QF
- 2 X 100 MUSD investment
- 150 MUSD revenue 100 MUSD EBITDA potential
- FID right after Skive
- Pre-project financed by Vitol

Antwerp



Amsterdam





Strategic partnership with BASF

Largest chemical company in the world with 65 BEUR turnover and 115.000 employees.

- 20 MEUR investment 10 MEUR equity,
 10 MEUR convertible bond
- Access to process and operation capacity for the start-up of Skive
- Engineering resources to reach industrial scale roll-out
- Off-take in Denmark to build the market
- Development of a naphtha solution
- Intention to replace part of the 20 MTON use of naphtha with recycled material
- None-exclusive agreement
- Collaboration agreement signed





ChemCycling is currently tested with first pilot products

BASF intends to realize the approach on an industrial scale

2018-2019 Product prototyping: Demonstrate principle

- ✓ Pyrolysis oil fed into BASF Verbund
- ✓ With partners first ChemCycling product prototypes realized and certified
- ✓ Certification system developed with Ecocycle for recycled products
- ✓ Network and partnerships along the value chain developed
- ✓ Investment into Quantafuel

Next steps

- Final evaluation of technology
- Scale up
- Foster understanding and acceptance in the market





Joint News Release

BASF invests in Quantahad to jointly drive shareinal resysting mixed plastic waste

- Investment is important relies time for EASY's Chemicycling "
 a further step towards a circular accounty."
- DASE has right of first refused for chamically recycled pyrolysis o
- Josef development of pracer products is intended

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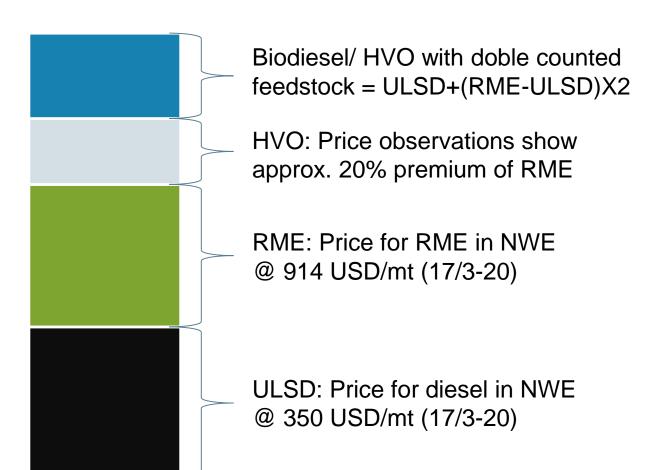








Market Price Structure



- EU's RED II inclusion of Recycled Carbon Fuels (RCFs), makes Quantafuel's products equivalent to biofuels
- Quantafuel's diesel specifications, cold properties and GHG savings are closer to HVO than RME
- Quantafuel feedstock is based on waste plastic, but not yet listed amongst EU's double counted feedstock



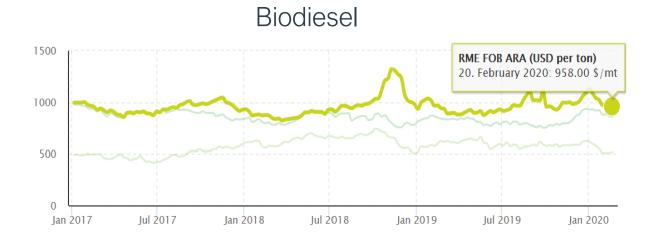
Price Volatility and Market Drivers

Drivers

- Global market sentiment
- OPEC
- Geopolitics
- Etc.

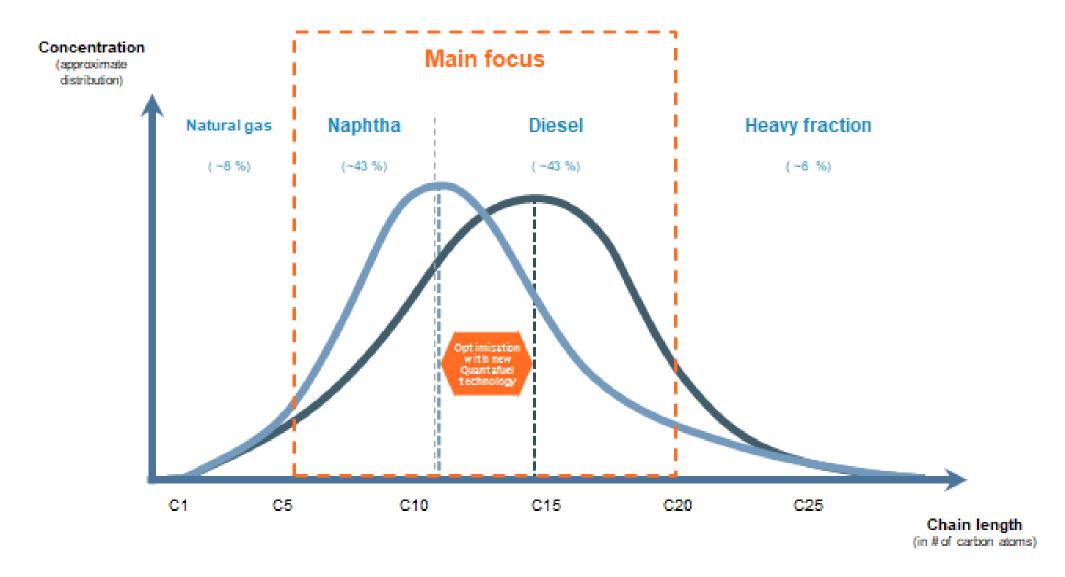
- EU and US (California) political policies
- Harvests yields







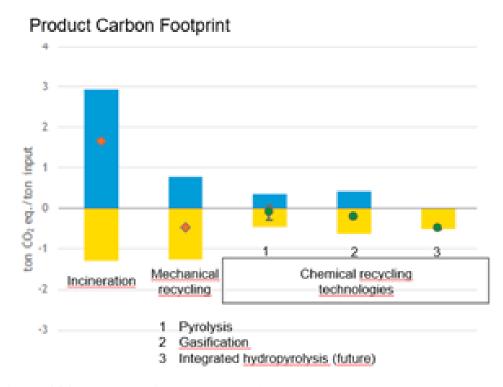
Chemical recycling opens naphtha as high potential





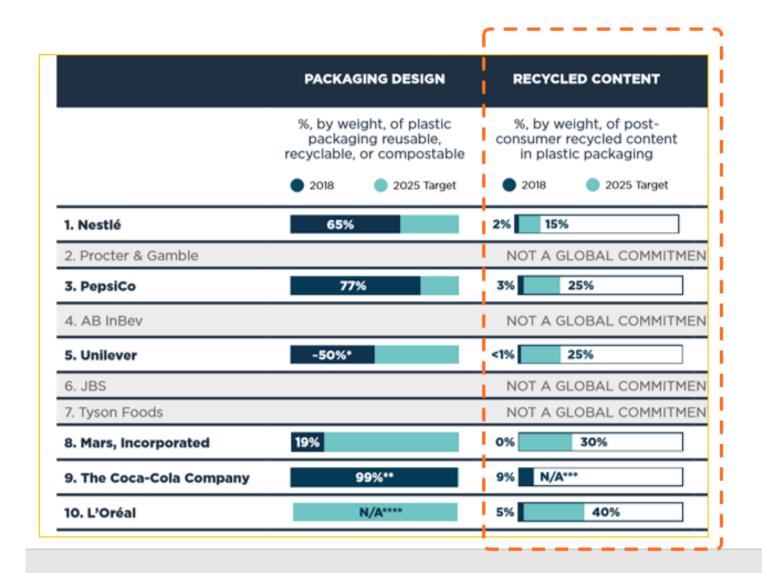
The sustainability case for chemical recycling

- Reduces demand for virgin oil and gas
- Increases resource efficiency by "rescuing" waste from incineration or landfill
- Upcycling: mixed plastic waste can be upgraded to food-grade packaging
- Complements mechanical recycling by treating plastic waste unfit for existing recycling methods





Huge demand for recycled content





Companies from across the plastics value chain have committed to quadruple post-consumer recycled content by 2025





EU targets and actions drive the market



50% recycling of plastic packaging by 2025



Pledge to use more than 10 million tonnes of recycled plastic in 2025



Strengthened Waste Framework Directive



Strategy for Plastics in the Circular Economy calls for innovation in chemical recycling



Circular Economy Action Plan published March 2020





"The Commission will propose mandatory requirements for recycled content"

EU Circular Economy Action Plan



Tighter regulation expected







Higher recycling targets



Polluter pays-principle strengthened: Higher CO2 tax on incineration



Requirements for recycled content in products

Forthcoming EU Chemicals Strategy for Sustainability to develop regulation further



«Miljøstyrelsen vurderer umiddelbart, at jeres proces kan betragtes som genanvendelse forudsat at produkterne (naphta, diesel og tung fraktion) alle anvendes som råvare i produktionen af plast og ikke bruges som brændstof i plastproduktionen..»

Sonja Canger

Kontorchef i Cirkulær Økonomi & Affald



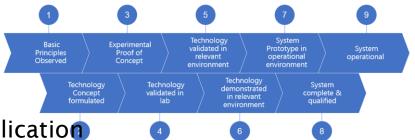
QF Project portfolio 2020

- All QF projects to follow a standard execution template
- DG process for qualification and evaluation
- Current capacity 2 plants(FEEDs)/year

Innovation Chain – EU H2020 Technology Readiness Level

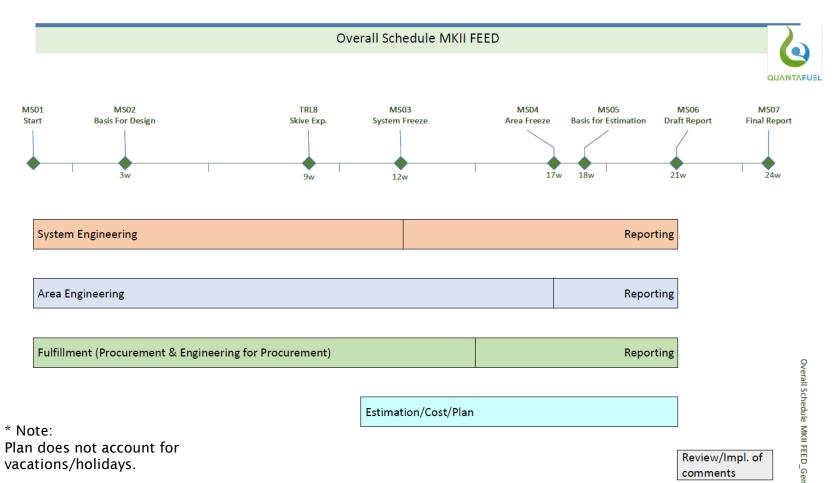
Portfolio: Basic Principles Observed Con

- Skive 1 20000 T/y, in comissioning/start-up
- QF MK 2 40000 T/y, in FEED, scalable through duplication
- QF MK 2 light 10000 T/y, focus on durability/flexibility
- QF MK 3 new reactor, catalyst etc. capacity > 100000T/y
- QF MK2 Skive 2 40000 T/y





QF MK2 FEED plan





QF MK 2 – 40000T/y typical layout





QF MK 2 - 80000T/y typical layout

