

An aerial photograph of a coastline. On the left, there is a dense forest of green trees. To the right, a sandy beach leads to a rocky shore with waves breaking. A white graphic element, consisting of a semi-circle on the left and a vertical line on the right, frames the central text.

# E-fuel: FT product upgrading

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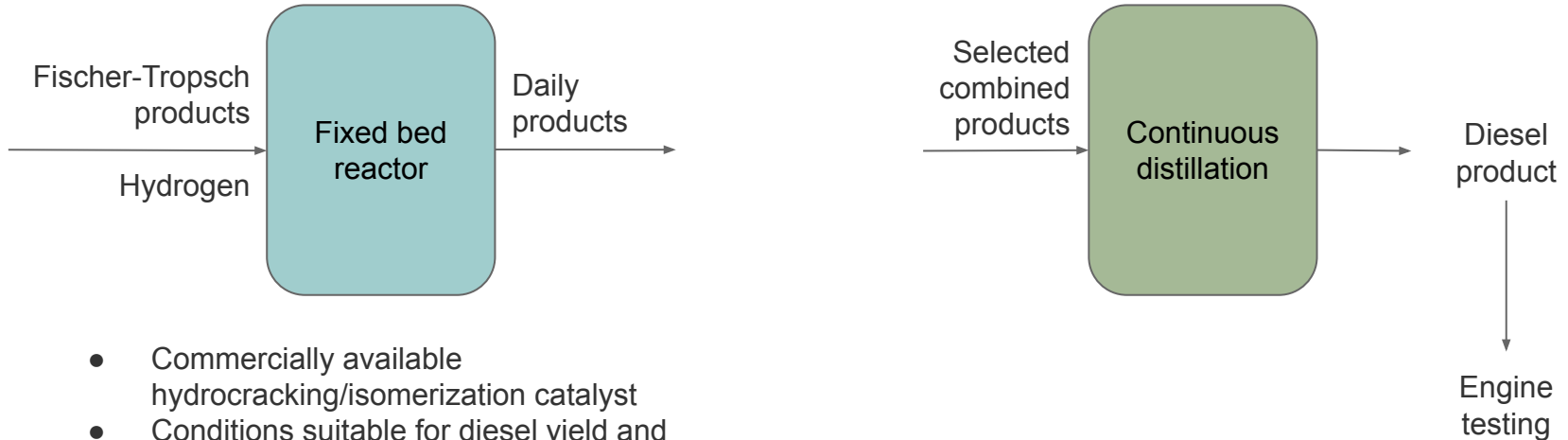
E-fuel project final seminar

# Feed volumes and handling

- 166.5 kg of Fischer-Tropsch wax and 133.5 kg of Fischer-Tropsch oil
  - FT product ratio defines the feed ratio for upgrading
- FT wax melting point is high whereas FT oil is fairly light
  - Feed tank conditions must be carefully considered for stable feed rate and safe operation



# Fischer-Tropsch product upgrading and distillation



- Commercially available hydrocracking/isomerization catalyst
- Conditions suitable for diesel yield and sufficient cold properties

# e-diesel delivery targets and selected analysis results

Regarding the e-diesel delivery, we agreed with VTT and AGCO the following:

- Cloud point min. -5°C
- Flash point >55°C
- Minimum 40 litres
- Delivery to VTT by November 6

Property	Method	Unit	e-diesel
Density	ENISO12185	kg/m <sup>3</sup>	766.4
Flash point	ENISO2719	°C	64
Cloud point	ASTMD7689	°C	-44
CFPP	EN116	°C	-45
Viscosity	ENISO3104	mm <sup>2</sup> /s	1.787
Distillation	ENISO3405		
Start of distillation	ENISO3405	°C	187.2
Final boiling point	ENISO3405	°C	319.7



**Thank you**