Norwegian Centre for Sustainable Bio-based Fuels and Energy

Duncan Akporiaye, SINTEF
Source of CO₂ emissions in Norway

Norway - Emissions from Transport

- Railway
- Aviation
- Other transport
- Marine and Fishing
- Road

~30%
Enabling sustainable biofuels production in Norway
Bio4Fuels Stakeholders

Bioresources

Norwegian Technology

International

End Users

Government and State
Overall objectives of the HTL work in Bio4Fuels

• Focus on the inorganic chemistry – modelling and experimental
  • Feedstock flexibility – How to eliminate or reduce the feedstock effect on the biocrude quality
  • Reduced costs and climate impact through enabling a more robust process
  • Processing: Feeding, reactor design, separation

• Other activities
  • HTL as a pretreatment for biological routes
  • Support to other activities such as techno-economics and process/reactor modelling
  • International cooperation
Bio4Fuels KPIs

Increase overall yield > 20%

Processing Costs < 30%

International Cooperation

Sustainable Value Chains ~ 2
Thank you for your attention!

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