



ADVANCEFUEL

RES-Fuels in transport sector decarbonisation

Kristin Sternberg

FNR

4th ADVANCEFUEL Stakeholder Workshop

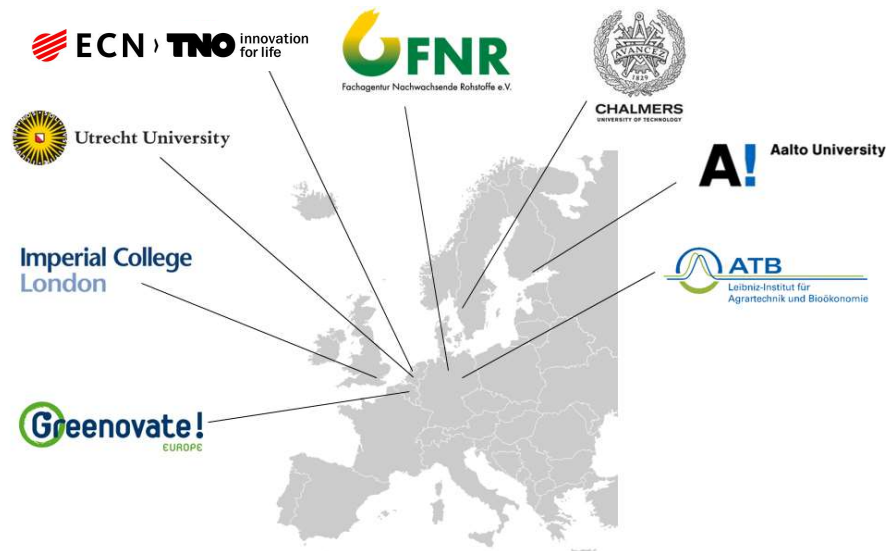
Brussels, 21 November 2019



ADVANCEFUEL PROJECT



PROJECT INFORMATION



- **8 partners** from 7 different countries
- **Duration:** 3 years (September 2017-August 2020)
- **Coordinated** by FNR, German Agency for Renewable Resources with the support of the Energy research Centre of the Netherlands (ECN part of TNO)
- **Funded** by the European Commission under the Horizon 2020 programme



Introduction

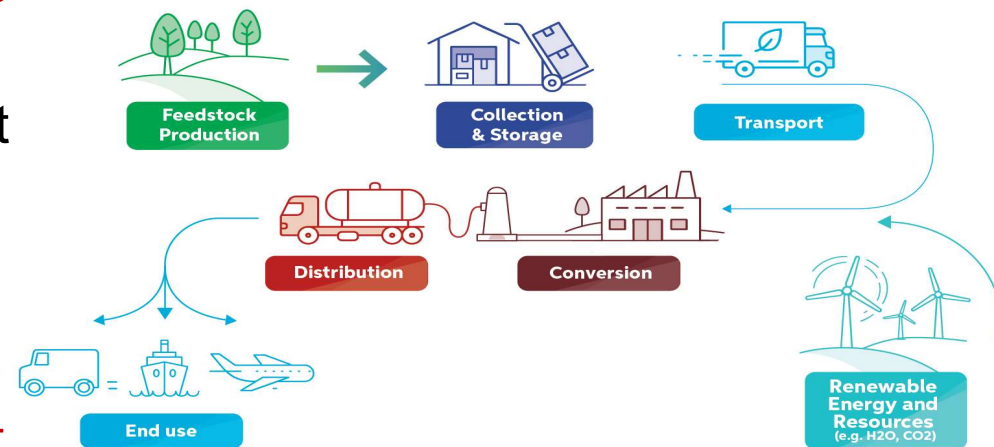
ADVANCEFUEL – Facilitating market roll-out of RESfuels in the transport sector to 2030 and beyond



Goal: increasing the share of sustainable advanced liquid biofuels and renewable alternative fuels in the EU transport sector

ADVANCEFUEL's approach:

- Investigating the **whole value chain** and defining the main **barriers** to the market roll-out
- Closely investigating the identified gaps/deficiencies/hurdles – always in close **collaboration with the market players** (e.g. workshops)





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Workshops



Topic of workshop	Date
Barriers to the market roll-out of RESfuels & Availability of lignocellulosic biomass and its suitability for being converted into advanced biofuels	September 2018; Gothenburg
ADVANCEFUEL - SEEMLA Workshop: Innovative cropping systems and supply chains for lignocellulosic biomass	November 2018, Brussels
Sustainability , certification, standards	May 2019 (at EUBCE 2019) Lisbon
Scenarios for RESfuels and strategies for their market uptake	21 Nov. 2019, Brussels
End use and policy recommendations	27-30 April 2020, EUBCE 2020, Marseille





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STAKEHOLDER ENGAGEMENT

ADVANCEFUEL's stakeholder engagement includes

- Dedicated stakeholder **workshops**
- **Consultations** on different topics
- The ADVANCEFUEL **Stakeholder Platform**, to disseminate information and engage dialogue with targeted stakeholders
- Close cooperation with other EU-projects & **ETIP Bioenergy**





ADVANCEFUEL – Approach - OUTPUTS -

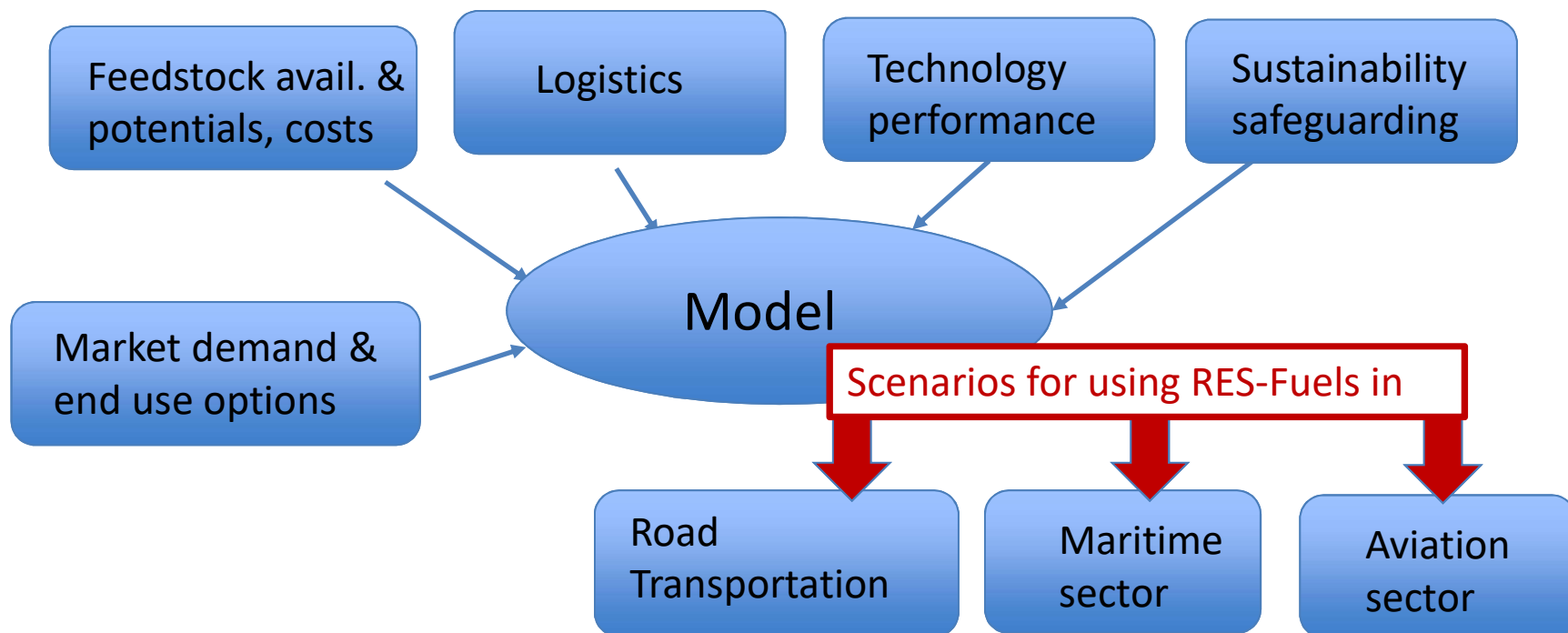


- Developing **innovative strategies** (incl. cropping, conversion technologies, system integration & sustainability compliance)
- Creation of user-friendly **tools** (assessment of sustainability and RESfuel performance/ fuel blending issues) / **models** as decision support for investors and policy makers
- Integrated scenario analysis
- Presentation of **Good Practice scenarios**
- Formulating **recommendations** for market players and policy makers, incl. measures to improve market acceptance



Workshop on the role of “RES-Fuels in decarbonizing the transport sector”

- Presentation of first outcomes of the modeling work, considering





Workshop on the role of “RES-Fuels in decarbonizing the transport sector”



...followed by a more detailed look at following **topics**:

- **Sustainable feedstock supply** chains for RESfuels up to 2030 and beyond
- RESfuel **conversion options** – assessment & expected timeline
- **Scenario analysis**
- Required **policy framework**





Workshop on the role of “RES-Fuels in decarbonising the transport sector”



Discussion with the audience

- Steps that are needed in **politics, society, research and technology development**
- Own **experiences**
- **Evaluation** of the presented findings



Time	Topic	Presenter/ Contributing partners
10:30–11:00	Registration & coffee	
11:00–11:10	Welcome, introduction of the ADVANCEFUEL project and the aim of the workshop	Kristin Sternberg, (FNR)
11:10–11:45	Analysing the role of RESfuels in decarbonising the transport sector until 2030 and beyond Setting the scene: introduction of the key scenarios for using RESfuels in the road, maritime and aviation sector	Ayla Uslu, (ECN part of TNO)
11:45–12:35	Lunch & Networking	
12:35–12:55	Sustainable biomass supply in the context of new bio-based markets beyond 2030 Focus: How much lignocellulosic biomass is available and will be used in what sector - the need for coordinated action	Ric Hoefnagels, (Utrecht University)
12:55–13:20	Roadmap to a sustainable market supply of feedstock for RESfuels up to 2030 and beyond How can the vision of sufficient RESfuel feedstock supply be reached in terms of policies, market structure, technological progress, and research & development beyond 2030	Katharina Sailer, (Leibniz Institute for Agricultural Technology & Bioeconomy, ATB)
13:20–13:45	Interactive discussion on future feedstock availability & sustainability: What crucial steps are needed in politics, society, research, and technology development for sustainable supply chains beyond 2030	<u>Chair:</u> Katharina Sailer/ Ric Hoefnagels
13:45–14:20	A timeline assessment of the RESfuels conversion technology portfolio, incl. discussion with audience	Stavros Papadokonstantakis, (Chalmers University)
14:20–15:00	Presentation on policy good practices/lessons learned , followed by interactive discussions regarding scenario analysis and first policy recommendations	Chair: Calliope Panoutsou, (Imperial College London) & Ayla Uslu (ECN part of TNO)



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Thank you for your attention

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