Guidelines to overcome barriers for commercialization of advanced biofuels

BIODRIV

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SVEBIO

Agenda for today

- 09:45 First of its kind projects – how to get to market
- 10.45 Break
- 11:00 Learnings in biofuel developments
- 12:00 Lunch
- 13:00 Panel discussion on biofuel development
- 13:20 Advanced biofuel projects – accelerating dev. to large-scale
- 14:00 Workshop: Analysis of and discussion
- 15:15 Break
- 15:30 Group presentations with discussion
- 16:30 Panel discussion
- 17:00 Summary and conclusion

Assessment of lessons learned and successes for biofuels commercialization and deployment

- This IEA Bioenergy TCP project between T39 (Project coordinator), T40 and T45 evaluates reasons underlying the past and ongoing boom and bust cycles of biofuel technologies development, demonstration, deployment and replication.
- *"What is required to re-stimulate vigorous biofuels development and scale up?"* and *"What are key factors for the success of sustainable advanced biofuel projects?"*
- We will identify technology successes and the best policy framework conditions and measures for stimulating increased future markets for prod. and consumption of transport biofuels.
- **This will serve as a kind of "guideline/good to know" brief for developers, decision and policy makers -> key messages**

IEA Bioenergy

Project overview in a nutshell
Activities and expected results | WPs

„Lessons learned biofuels I“ (Triennium 2019-2021)

WP 1 | Status quo biofuel projects
T39 (Lead), T45
Overview TRL, capacities of biofuels projects, Wrap up national programs
Existing sustainability / certification schemes

WP 2 | Meta-analysis existing studies
T45 (Lead), T39, T40
Inventory of studies, specifically addressing lessons learned biofuels
Screening with criteria to be defined

WP 3 | Case studies technologies
T39 (Lead)
Success stories for dedicated technologies and regions, (e.g. US, EU, Brazil)

WP 4 | Case studies supply chains
T40 (Lead), T45
Success stories for biomass supply chains

WP 5 | Synopsis / synthesis of key issues
T39 (Lead), T40, T45
Conclusions, guideline „good to know“ for decision makers, identification of required actions for *„Lessons learned biofuels II“*

WP 6 | Project manage-ment and dissemi-nation
T39 (Lead)

„Lessons learned biofuels II“ (Triennium 2022-2024)

As intertask project incl. several Bioenergy TCP Tasks, (IEA AMF?)

Intertask project activities are spanning several areas and different expertise

1. **Status quo biofuel projects:** Overview of conventional biofuel capacities, including a brief summary of the development and status of advanced fuel projects worldwide. Issues related to governance of biofuel development, e.g., mapping and inventory of existing policy instruments.
2. **Meta-analysis on existing studies:** A comprehensive summary of the main findings and lessons learned regarding successes and failures for biofuel projects in the analysed studies and according to the defined criteria.
3. **Case studies technologies:** Brazil, Germany, Sweden and the USA. Each studied for two cases, i.e., biofuel projects or plants. Analysis of each country policy in terms of successes or lessons in terms of the projects and plants.
4. **Case studies supply chains:** Success stories and insights about future potential developments with assessment thereof. Biomass fractionation methods and lessons and successes in sustainability standards and certification of international supply chains.

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- We add to the Intertask Project “Bioenergy Success Stories” by Uwe Fritsche with a broad geographical, feedstock, conversion/end use, and actors demonstrating the approach.
- This project have initiated collaboration with IEA IETS (Industrial Energy-Related Technologies and Systems) a TCP in IEA.
- Their objective is to highlight experiences and learnings of larger industrial projects in Sweden and thereby identify possibilities and opportunities for continuing R&D&D in climate mitigation.
- This workshop aims to discuss among industry and decision-makers conclusions about “successes and lessons learned on biofuels deployment”.