

4th Danube Financing Dialogue



REPUBLIKA HRVATSKA
Ministarstvo regionalnoga razvoja
i fondova Europske unije



UMSICHT is part of the globally recognized Fraunhofer Gesellschaft. It is based in Bavaria and develops advanced engineering concepts and applied processes for improved efficiency of energy provision and raw material use. Its main focus lies on integrated and decentralized conversion and storage of energy from residual biomass.

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Demonstration of the Thermo-Catalytic Reforming

Company/Institution DE

Fraunhofer Institute UMSICHT Institute Branch Sulzbach-Rosenberg

Project description

The proposed project addresses the demonstration of the thermo-catalytic reforming (TCR) process to produce and use advanced biofuels in the transport sector; and the development and demonstration of a robust, sustainable and economic supply chain for both feedstocks and final biofuel products. The focus lies on the delivery of feedstocks to a demonstration scale transformation facility using inland waterway transport, TCR processing and the subsequent use of derived products as transport fuels in waterborne transport, to aid compliance with environmental targets of decarbonizing the short sea sector and reducing sulphur emissions.

Project goal

- Deliver biogenic residues from industry & agro-industrial production to the TCR facility, using the Danube River as a logistical backbone
- Implement TCR technology on a demonstration scale in Straubing (2.100 t feedstock/a)
- Test the derived TCR oil as bunker fuel

Beneficiaries and target groups

Primary beneficiaries are suppliers of biogenic residues and the users of the biofuel products. Moreover, the TCR supply network can increase the regional added value in the Danube sub-regions.

Constraints and risk appraisal

- (1) Upscaling and capacity limits of the demonstration plant
- (2) Availability (physical & economical) of biomass residues in the Danube River Basin
- (3) Divergence of national regulations concerning treatment and transport of biomass residues

Type of financial product searching for

- Grant
- Loan
- Venture capital investment
- Guarantee
- Microfinance
- Other

Sectors

- Transport, Infrastructure and Energy
- Environment and green business
- Innovative technologies, agriculture and rural areas

Countries engaged in the project

- Austria
- Bulgaria
- Germany
- Hungary
- Romania
- Serbia
- Slovakia