



KEROGREEN Newsletter

Edition 09/2020

Editorial



Dear Reader,

Like everyone worldwide, KEROGREEN partners are experiencing and working around the effects of the Corona pandemic. However, at mid-term, the KEROGREEN project has established a firm basis for the integration of the individual units for the synthesis of sustainable kerosene from CO₂ and water developed over the past two years. The project has successfully passed its first periodic review and organised an international workshop at DIFFER on Plasma Catalysis for Renewable Fuels and Chemicals in 2019, well-attended by Stakeholders and Industry. The CO₂ plasma reactor is operational at 1 kW RF power and development of the 6 kW reactor is well underway, the CO purifier by Pressure Swing Adsorption has been delivered for performance testing, the Sorption Enhanced Water Gas Shift (SE-WGS) reactor has undergone successful performance tests, the innovative evaporation cooled Fischer-Tropsch reactor has shown desired process intensification and the Hydro-Cracking unit is optimised. The main challenge is and remains the novel electrolytic gas separator for separating the O₂ from the approximately equally sized CO molecule. Here, plasma membrane interaction and novel electro-catalytic materials explore cutting-edge science and technology. For the coming period, the main task is the integration of dissimilar technologies of different Technology Readiness Levels at the KIT Energy Lab 2.0 site, which should start in 2021. More details on our achievements up to now can be found [here](#).

Stay informed via our [website](#)!

Yours sincerely Adelbert Goede,
on behalf of the KEROGREEN consortium

Talking to Evgeniya Khomyakova and Anne Dalager Dyrli, Cerpotech AS (Norway), project partner

What is the company's background and what is its technical role within the project? Which benefits are expected from it? Answers to these questions and others can be found in the partners [interview](#)

News and events

Second project reporting is starting! Partners have to provide feedback on project progress to the EC until November 2020

The first international KEROGREEN workshop organised by project partners in November 2019 at DIFFER was a real success, with more than 70 participants from both science and industry. Have a look at the short [report](#) including pictures

In addition to that event, partners presented the project and its results at more than 8 events and in 3 scientific publications and 2 press releases within the last year. Complete overview of past and upcoming events and latest news [here](#)

Save-the-date! International Workshop "CO₂ capture and utilization", 16-17 February 2021, TU/E

KEROGREEN is currently co-organising a second international workshop which will bring together around 12 EU projects dealing with CO₂ capture and utilization. Check out latest information and register yourself on the [event page](#)

Do not want to miss our next newsletter?

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