



KEROGREEN Newsletter

Edition 12/2021

Editorial

Dear Reader,



The year 2021 has been both exciting and challenging for the entire consortium. Throughout the year the first modules of the demo plant have been realized and shipped to the Karlsruhe Institute of Technology (KIT) where the container sized kerosene plant is currently being established at KIT-IMVT. At the same time the project partners were dealing with the hurdles imposed by the pandemic situation. Fortunately, a 6 months project extension was granted by EC-CINEA, offering some reprieve in shifting the project end date to 30 September 2022.

The coming year will be even more exciting since the individual modules of the demo plant will be interconnected. System Integration will take place with the aim to demonstrate the unique KEROGREEN concept, producing synthetic aviation fuel ultimately from air captured CO₂, climate neutral with no soot or Sulphur air pollutants emitted from combustion in conventional jet engines.

Good progress has been made at DIFFER with the CO₂ plasma reactor commissioned for system integration, the Full-Scale oxygen separator delivered for test at HyGear, supported by underlying research at VITO, the Sorption Enhanced Water Gas Shift reactor developed at KIT ready for integration with the innovative INERATEC evaporation cooled Fischer-Tropsch reactor coupled to the KIT Hydro-Cracking unit optimized for kerosene yield. System integration of the CO production unit with the kerosene synthesis unit is planned from April 2022 onwards with measurements scheduled to continue throughout summer 2022.

Stay still informed on the project progress via our [website!](#)

In the meantime, we wish you all a Merry Christmas and a good start in 2022!

Yours sincerely Adelbert Goede,
on behalf of the KEROGREEN consortium

Talking to Vesna Middelkoop and Marijke Jacobs from VITO (Belgium), project partner

What is the main role of the research organization within KEROGREEN and what are their current achievements? Which benefits are expected from the project? Answers to these questions and others can be found in the partner's [interview](#).

News and events

The KEROGREEN project gets six months more for achieving its goals! An amendment to the Grant Agreement is currently being prepared.

The international workshop "CO₂ capture and utilization" co-organized by KEROGREEN together with 10 other EU projects and held on 16-17 February 2021 was a great success with more than 250 participants from both science and industry attending.

What a good track record for KEROGREEN! Since project start the partners were presenting the project & its results in more than 63 presentations! Complete overview of past & upcoming events [here](#). Also have a look at our [publications list](#).

Save-the-date! KEROGREEN virtual Winter School, 10-11 February 2022

KEROGREEN is currently preparing a Winter School on "Future directions in research on Power-to-X for sustainable chemicals & fuels", co-organized by E-Fuel, BECCU and the EERA JP Energy Storage. Check latest information and register yourself on the [event page](#).

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