

## Online PhD day “EERA JP2 Energy Storage: Chemical Energy Storage” 11<sup>th</sup> of February 2022, 1:30 pm – 4:00 pm CET Future directions in research on Power-to-X for sustainable chemicals & fuels

The Sub-program 2 “Chemical Energy Storage” of the EERA Joint Programme Energy Storage (JP ES) offers PhD students the possibility to present and discuss their work with their peers from the extended EERA JP ES network as well as invited target groups of several EC H2020 funded projects including KEROGREEN, and of the national research projects E-Fuel and BECCU.

### Presentation format

The PhD day will be carried out online in the form of a webinar, as part of the KEROGREEN/E-Fuel/BECCU Winter school scheduled on 10 and 11 February 2022, see [www.kerogreen.eu](http://www.kerogreen.eu).

The presentation should not take longer than 15 min + 5 min open discussion.

Time	Title of presentation	Presenter	Affiliation
13:30-13:40	<b>Introduction to PhD day</b>	Adelbert Goede	DIFFER
13:40-15:00	<b>PhD presentations</b> – Syngas Production in the Kerogreen Process Chain: Development of a compact Sorption-Enhanced Water-Gas Shift Reactor – Dynamic energy and mass balance model for an industrial alkaline water electrolyzer plant process – Quantitative model-based assessment of global socio-ecological challenges and opportunities for the transition to Power-to-X: Case study for the aviation sector – Light olefin production from CO <sub>2</sub>	Tabea Stadler Georgios Sakas Manuel Andresh Aki Braunschweiler	KIT LUT University KIT VTT
15:00-15:20	<b>Coffee break</b>		
15:20-15:40	<b>Virtual visits</b> to research infrastructures		KIT, VTT
15:40-15:50	<b>AWARD decision</b>	Jury	
15:50-15:55	<b>Closing words</b> of PhD day	Adelbert Goede	DIFFER
16:00	<b>End</b>		

### PhD award

The best contribution presented at the PhD day will receive an official EERA award and funding for an open access publication or for the fee for presentation at a pertinent conference. The selection will be carried

out by a jury composed of members of the EERA JP ES network. Selection criteria will be 1) scientific content (60%) and 2) quality of the presentation (40%).

All presentations will be made available at the EERA JP-ES website.

### **Participation / registration**

The event is open to everybody interested in the field of Energy Storage in Chemicals and Fuels and is free of charge. Only a registration (latest by the 8<sup>th</sup> February 2022) is required to attend the event as listener [Registration link](#). The event link (zoom) will be sent to registered participants in advance (latest on 9<sup>th</sup> February 2022).