

## Liquid Organic Hydrogen Carriers

### SherLOHCK mid-term review

SherLOHCK's mid-term review meeting was held last September 27th with the presence of the reviewers as well as the officer from the Clean Hydrogen Partnership, receiving a successful feedback from them.

### Mid-term report (public part)

The public part of mid-term report is already accessible in the [project website](#).

### Innovation radar from EU

The **innovation radar** from the EU have positively assessed the two innovations described in SherLOHCK project.

Within the research tasks carried out in SHERLOHCK project, the expert of the innovation radar from the EU, have positively assessed the two innovations described in the mid-term report, specifically:

- Improved productivity of bimetallic catalyst with reduced platinum content (or PGM-Free) for more efficient dehydrogenation (hydrogenation) reaction of benzyltoluene (BT) as LOHC.

- Oxidative treatment of deactivated catalyst systems for in-situ catalyst reactivation.

Furthermore, they have identified FAU, UPV/EHU, HYDROGENIOUS, EVONIK and the CEA as key European innovators.

### SherLOHCK project at EU Hydrogen Week in Brussels

Last October 28, our colleague Konstantin Tarasov from Commissariat a l'Energie Atomique et aux Energies Alternatives (CEA) presented SherLOHCK project in the EU Hydrogen Week (euhydrogenweek.eu) that hold in Brussels, more precisely, within "Hydrogen Storage and Distribution" session.

### SherLOHCK project speaks at International Conferences

Our colleague Kevin Alconada Peña from Universidad del País Vasco/Euskal Herriko Unibertsitatea (UPV/EHU) presented interesting results in the [European Hydrogen Energy Conference 2022](#) that hold that week in Madrid (17-20 May).



## Publications

Our colleagues from HySA-Infrastructure, North-West University / Noordwes-Universiteit have published two very interesting papers: ([download here](#))

- K.O. Abodo, C.N.M. Ouma, D. Bessaravov; Low-Pt-Based Sn Alloy for the Dehydrogenation of Methylcyclohexane to Toluene: A Density Functional Theory Study. *Catalysts*. 2022, 12(10), 1221.
- K.O. Abodo, C.N.M. Ouma, D. Bessaravov; Modified Pt (2 1 1) and (3 1 1) surfaces towards the dehydrogenation of methylcyclohexane to toluene: A density functional theory study. *Applied Surface Science*. 2022, 584, 15290

## Other related news

### IRENA publishes "Global Hydrogen Trade to Meet the 1.5°C Climate Goal: Technology Review of Hydrogen Carriers".

The report covers transformation from gaseous hydrogen to a suitable form to allow its transport and storage, its use in the process of transportation itself and its reconversion from the carrier back to pure hydrogen.

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The Ebro Hydrogen Corridor is Born, a Benchmark for Developing this Renewable Energy – Spain.

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