

PERFORM hosts the workshop: Reduction of CO₂ in the chemical industry - an electrifying approach to the challenge.

- PERFORM is the European project that aims to significantly improve the sustainability of the European chemical industry, by electrifying chemical transformation processes. PERFORM organizes a workshop demonstrating the most advanced technologies developed in the framework of the project, leading to the required CO₂ reduction in the chemical industry.
- This event is set to headline the upcoming workshop that will be held in Delft, the Netherlands on October 4, which will spotlight sustainability in the chemical industry. TNO and VITO will present pioneering achievements. Attendees will also get an exclusive tour of the pilot plant and TNO's electrochemical lab in Delft, The Netherlands.

Madrid, Spain, September 27, 2023 – PERFORM (Power Platform), a project within the European Commission's Horizon 2020 programme SPIRE, is organizing a workshop on October 4th. The workshop will revolve around PERFORM's dedication to advancing sustainability within the chemical industry and will provide a platform to unveil and discuss the latest trends and outcomes in our goal to make the chemical industry sustainable.

Scheduled from 9:30 to 13:20 (CEST), the consortium will gather in Delft, The Netherlands, to present the culmination of its research efforts across multiple development lines. Starting from bio-based feedstocks, project partner TNO is responsible for producing valeric acid and maleic acid-while VITO is responsible for the production of glucaric acid and adipic acid. The workshop will also feature a guided tour of TNO's electrochemical laboratory including the pilot plant units, offering attendees an immersive glimpse into the project's journey.

Structured into two engaging sessions, the workshop will kick off with a welcome and introduction by PERFORM coordinator Erwin Giling, Project Manager at TNO. In the first session, "Bio-based Feedstocks", Joost Helsen, Project Manager at VITO will present the results of one of the electrochemical approaches worked on in the project, to identify and emphasize the catalytic materials and their optimal reaction conditions for the oxidation of glucose to glucaric acid.

In the second session, Riccardo Zaffaroni, Research Scientist at TNO, will present the latest insights into scaling up the technology into the developed PowerPlatform, from feedstock analysis to electrochemical conversion and downstream processing into products. A key highlight of this event is the exclusive tour of the TNO laboratories, led by Erwin Giling and Catarina Simões from TNO. Participants will have a unique opportunity to witness the electrochemical pilot and other PowerPlatform units, a tangible outcome of the PERFORM project.

The event welcomes researchers, professionals, policymakers, and individuals interested in the reduction of CO₂ emissions in the chemical industry. By fostering dialogue and collaboration, PERFORM's mission is to amplify its impact and drive the transformation of the chemical sector into sustainability.

For free registration and further information for the hybrid workshop in the framework of PERFORM for CO₂ reduction in the chemical industry please visit: https://bit.ly/PERFORM_Workshop

About PERFORM

The expected impact of the PERFORM project derives from its multi-level approach that includes a combined integration between electrification, reduction of process complexity, avoiding the use of coreactants through system integration, innovation in processes, and bio-based use of feedstocks, as well as the development of a flexible PowerPlatform pilot plant platform.

PERFORM is expected to contribute to technology development to reduce the environmental impact of the chemical industry. The technology developed in PERFORM will reduce CO₂ emissions from the production of chemicals due to the efficient utilization of renewable bio-based feedstocks and renewable energy. It will also be essential for a future sustainable society that uses local resources.

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