

## DARE2X in the final stretch: Building the prototype

**A Coruña, Spain – October 2024.** The DARE2X consortium successfully concluded its General Assembly on October 15<sup>th</sup> and 16<sup>th</sup>, hosted by our partner ENSO Innovation. Entering the last phase of the project, this meeting was strategically planned to facilitate the exchange of the latest updates on technical aspects and to prepare the work for upscaling the demonstration unit, its integration and validation.

The DARE2X project, funded within the Horizon Europe research and innovation programme, is at the forefront of pioneering technologies for decentralised green ammonia (NH<sub>3</sub>) production. As the project enters its final phase, key decisions were made regarding the upscale production and validation of the sorption unit, and the upscaling design of the plasma reactor. In addition to advancing the upscaling requirements, technical partners will continue working on enhancing catalytic processes, refining precipitation methods and conducting modelling studies. This last stage will also focus on assessing the environmental and economic performance of the fully functional system.



*DARE2X partners joining for this strategic General Assembly: Danish Technological Institute (DTI), Hulteberg Chemistry & Engineering (HB), National Institute of Chemistry (NIC), University of Liverpool (UoL), ENSO Innovation, and LOMARTOV.*

The General Assembly offered partners a valuable opportunity to review the progress achieved and plan the next steps. These discussions were crucial for achieving the project's ultimate goal: demonstrating a fully functional sorption-enhanced and non-thermal plasma system that produces hydrogen and powers the ammonia synthesis using renewable sources.

In addition to the insightful discussions, the first day of the General Assembly featured a SWOT and PESTEL workshop within the market analysis tasks led by our partner LOMARTOV. This workshop aimed at gathering insightful perspectives from the consortium's partners on internal and macro-external factors that could promote or hinder DARE2X market uptake.



*Market analysis workshop hosted by LOMARTOV: An interactive collaborative session with the DARE2X consortium*

The output of this workshop will provide meaningful information for the definition of the business models and define DARE2X's position to ensure a successful market uptake of its technology.

Finally, the second day concluded with a strategic planning session, especially focusing on evaluating the design of the plasma reactor with the highest optimised energy and cost efficiency. Additionally, dissemination and communication activities were discussed to ensure broad outreach, including ideas for the DARE2X promotional video, the next clustering workshop, and the final closing event. Such discussions were crucial to ensure the project reaches the widest audience as it enters its final stages. The day wrapped up with an informative tour organised by the hosts: ENSO introduced their facilities, including their team.



*A guided tour of the ENSO facilities led by their department team.*

The DARE2X consortium is proud of the progress made and looks forward to achieving these final milestones. The journey to revolutionise ammonia production for a sustainable future continues with great enthusiasm.

The DARE2X project is led by the Danish Technological Institute and its consortium's members are Hulteberg Chemistry & Engineering, the National Institute of Chemistry (NIC), the University of Liverpool, ENSO Innovation, and LOMARTOV.

**For further updates and information on the DARE2X project, visit [www.dare2x.eu](http://www.dare2x.eu).**



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