Power 2HyPe
Towards sustainable H_2O_2 production

Newsletter Issue 2
January 2025

A new era
for green energy in the EU

Welcome to the second issue of Power2Hype's newsletter. In this edition, we will give you a glimpse of our latest achievements and will provide a special highlight of our 'sister' project, **FIREFLY**.

As Europe moves forward with the green energy transition, our collaboration supports sustainable and innovative solutions for the future of energy production and consumption.

Power2Hype results

Consortium meetings

In 2024, our partners met twice: Erlangen (Germany) and Linz (Austria) were the places chosen to discuss the status of the project and define the next steps to be taken by partners, to ensure the success of the project.

Review meeting

In September 2024, Power2Hype partners met at Solvay's headquarters in Brussels for their first review with the European Commission, which was a success. They presented progress on the project and visited the Power2Hype pilot plant demonstrator, which is essential for scaling the technology.

Conferences and fairs

From the Sustainable Chemicals Conference & Expo 2024 to Electrochemistry 2024, partners had their hands full of events and fairs in which they presented the project and its current outcomes.
Exciting events are coming in 2025 – stay tuned, and let's connect!

New partner - T4i

Power2Hype is thrilled to welcome T4innovation to the consortium! T4i steps in to continue the work previously led by SolvGe, aiming to develop hydrogen peroxide concentrator units for downstream processing of raw and diluted H_2O_2 streams.

Power2Hype insights

Power2Hype advances paired electrolysis for sustainable hydrogen peroxide production

The Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB) is driving the development of a sustainable and innovative approach to pair the cathodic and anodic production of hydrogen peroxide (H_2O_2).

Learn more

Exploring high-purity H_2O_2 production with non-noble metal catalysts

Wageningen Food & Biobased Research (WFBR) is focused on the development of an optimal design of the cathodic half-cell for the two-electron oxygen reduction reaction to produce pure and concentrated H_2O_2.

Get more updates

Meet FIREFLY

FIREFLY: Revolutionising the catalyst-based chemical industry

The FIREFLY project is dedicated to transforming the catalyst-based chemical industry by promoting sustainable practices. With a focus on electrification and reducing reliance on metals and fossil energy, FIREFLY aims to demonstrate green metal-based catalyst recycling and (electro)catalyst synthesis processes, designed to drive cost-competitive and sustainable across all electrifiable chemical value chains.

Look into the project

R&D and optimisation of RES for electrification of chemical processes

The FIREFLY team is advancing the use of renewable energy sources (RES) in chemical processes. Promising results include metal recovery rates of 80% for vanadium, 77% for molybdenum, and over 95% for key platinum group metals.

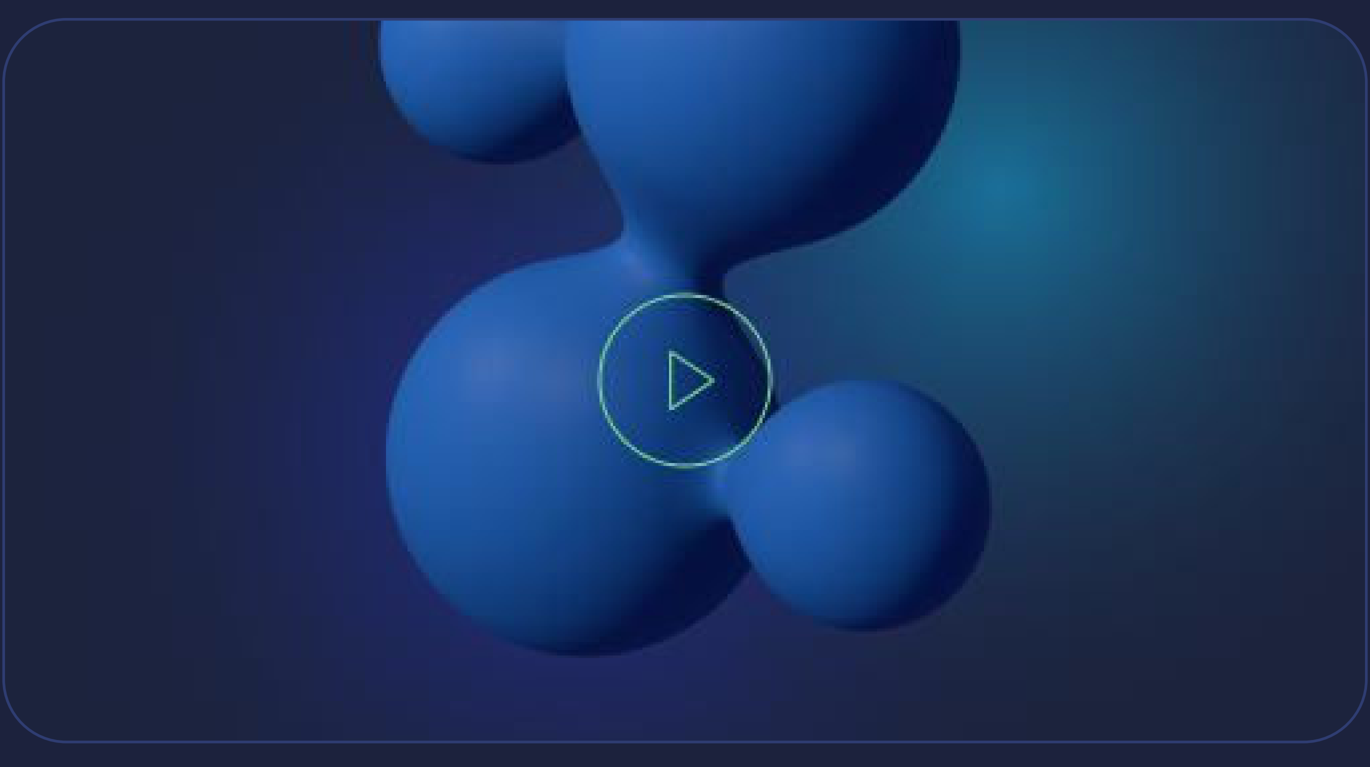
Discover other results

FIREFLY Project developing flexible technologies in the electrochemical toolbox and catalyst synthesis

FIREFLY is developing and benchmarking flexible technologies to enhance the electrochemical toolbox. Recent success includes achieving up to 98% palladium recovery using advanced electrochemical methods.

Explore all the results

In case you've missed



Our latest video is now live on our YouTube channel! Head over to watch and stay updated on our newest insights and developments.

Funded by the European Union