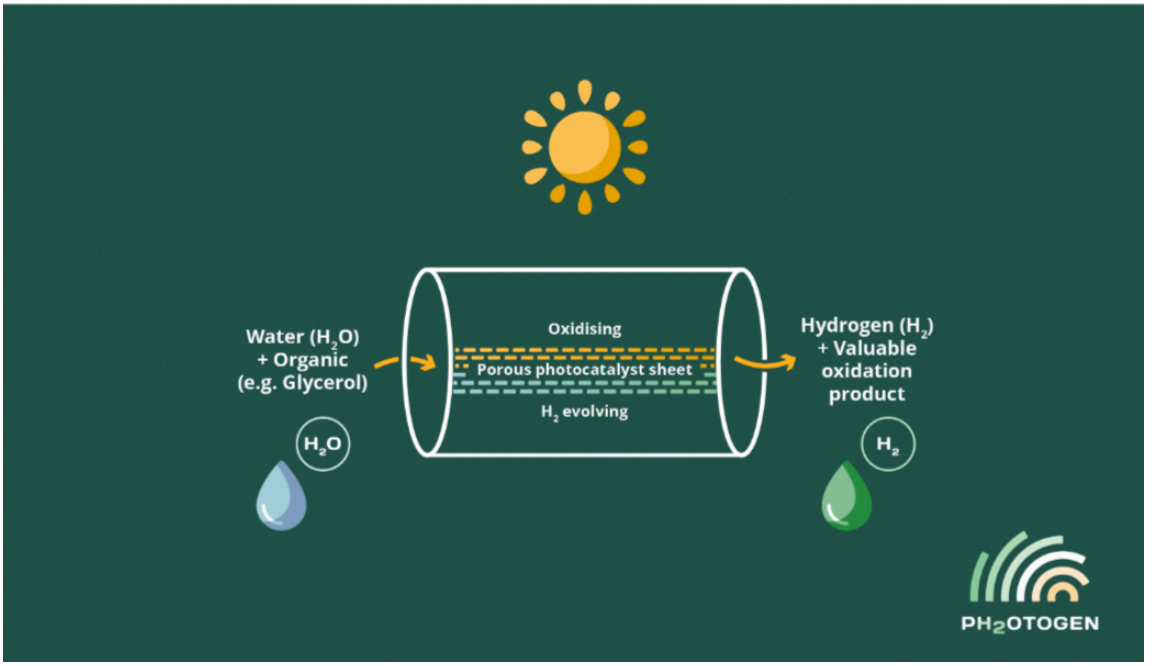

# Greetings from the project coordinator

*Dear PH2OTOGEN readers,*

*I am delighted to welcome you to the inaugural issue of our PH2OTOGEN newsletter. This project, co-funded by the European Union and the Clean Hydrogen Partnership, unites diverse expertise across five countries to harness the power of sunlight for clean hydrogen production. Our commitment is to push the boundaries of renewable energy technology. As we progress, we look forward to sharing our breakthroughs and innovations with you.*

Hannah Johnson - PH2OTOGEN coordinator

# How does PH2OTOGEN's demonstrator work?




The PH2OTOGEN project has developed an innovative demonstrator that utilises sunlight to produce green hydrogen while oxidising low-value organic molecules, such as glycerol, into valuable chemicals.

**Read our article to understand the breakdown of the process.**

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## Expected Impacts

PH2OTOGEN's ambition is to significantly impact the green hydrogen sector by advancing technology that aligns with the EU's climate targets under the REPowerEU plan. The project focuses on:

- **Climate Action**: Aiming to drastically reduce $CO_2$ emissions by promoting the shift from fossil fuels to renewable hydrogen, which could cut up to 12 million tons of $CO_2$ annually by 2030.
- **Innovative Energy Solutions**: Developing photocatalytic sheets that are affordable and allow decentralised, green hydrogen and chemical production.
- **Market Readiness**: The technology focuses on producing not only hydrogen but also valuable co-products, improving economic outcomes and speeding up market entry.

PH2OTOGEN's strategy includes using scalable, critical raw materials-free components and innovative fabrication techniques to ensure the project's success and sustainability. This approach not only supports the EU's climate goals but also contributes to establishing a resilient hydrogen economy.

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## Kick-off success


We celebrated our **project's launch at Toyota Motor Europe** headquarters in Brussels, setting the stage for a journey towards innovative energy solutions.

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