

**Project title:** Low-cost green hydrogen production

**Reference number:** NPOO.C3.2.R3-I1.01.0164

**Summary:** The goal of the project is to prove the innovative concept of the low-cost green hydrogen production process using AEM electrolysis technology at the Faculty of Chemical Engineering and Technology (FKIT) of the University of Zagreb.

The aim is to develop and construct a laboratory system – a scalable integrated process for the production of green hydrogen using AEM water electrolysis. By applying the pulse width modulation technique (PWM) it is possible to obtain optimal operating conditions in which hydrogen production and system efficiency are maximum, and compared to competing solutions up to 10% higher.

**Project applicant:** University of Zagreb, Faculty of Chemical Engineering and Technology  
Marulićev Trg 19, HR-10 000 Zagreb

**Project partner:** Inovacijski centar Nikola Tesla, Unska ulica 3, HR-10 000 Zagreb

**Total project value:** 64.737,11 €

**Co-financed by the EU:** 64.737,11 €

**Project implementation period:** March 28, 2024 – March 28, 2025



**Funded by the  
European Union**  
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