DEI+

500 kW alkaline elektrolyser for gas-fired ovens

Start	2024
Subsidy	€ 750,250
Private contribution	€ 2,250,750
Project Coordinator	Wilbert Heffels
Expected results	Delivered June 2025

Project partners

NEDMAG

VDL

Description of the project:
Nedmag and VDL are piloting a 500 kW alkaline electrolyser to produce green hydrogen for use in Nedmag's high-temperature gas-fired ovens. The aim is to assess technical, safety, and operational integration in a real industrial setting where electrification is not viable. The project serves as a stepping stone for future scale-up, with significant CO_2 reduction potential.

Impact:

Acceleration	☑
Scaling up	☑
Reducing costs	☑
Innovative ecosystem	
New talents	

- **Acceleration:** Advances hydrogen use in industrial heat.
- **Scaling up:** Prepares for expansion to 20 MW+ hydrogen production for heavy industry.
- **Reducing costs:** Builds operational knowledge to improve system efficiency and investment decisions.