

Renewable Hydrogen: A Strategic Pillar for Europe's Net-Zero Goals

The **Net Zero Industry Act** highlights green hydrogen as essential for Europe's clean energy future, with hydrogen expected to meet **20% of the EU's energy needs by 2050.**

Powered by renewable energy, **water electrolysis** produces clean, carbon-neutral hydrogen – an energy carrier that can be stored, transported, and converted back to electricity with **water as the only by-product.**

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Diagnostic tools for
Electro**Y**sers:
Cost-efficient,
Innovative, **O**pen,
Universal and **S**afe



6 Strategic Project Objectives



Development of a Flexible Test Platform



Advanced Hardware Sensors



Cutting-Edge Algorithms



Open-Access Software Platform



Large-Scale Demonstration



Roadmap to Commercialization

Innovative Approach



Advanced Diagnostics



Universal Compatibility



Collaborative Expertise

Impact Vision



Contributes to the Outcomes of the Call HORIZON-JTI-CLEANH2-2024.



Enhances electrolyser performance, drives large-scale deployment and standardization, lowers ownership costs, and enables greater renewable energy integration.



Advances SDG 7 (innovating clean hydrogen), SDG 9 (driving industrial progress), SDG 12 (reducing fossil fuel reliance), and SDG 13 (supporting climate action).



Empowers academia, industry, and professionals through R&D, mentorship, and open data access.



Optimizes green hydrogen economics for new projects and upgrades.