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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Clean Hydrogen Partnership
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Diagnostic tools for **EL**ectrol**Y**sers: **C**ost-efficient, **I**nnovative, **O**pen, **U**niversal 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.