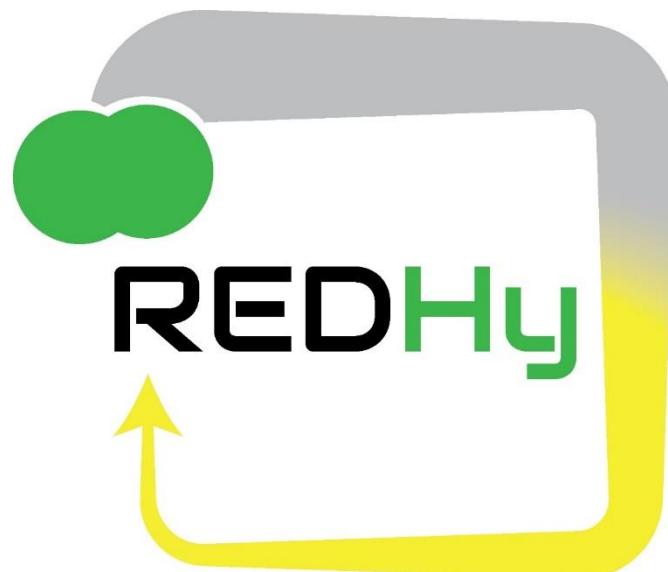


HORIZON EUROPE PROGRAMME
TOPIC HORIZON-CLEANH2-2023-01-01

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REDHY

**Redox-Mediated economic, critical raw material free,
low capex and highly efficient green hydrogen
production technology**



REDHY - Deliverable report

DELIVERABLE 4.1 – Charge transfer kinetics

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V2	15/01/2026	Mathieu Etienne	Final version

Public Summary

Screening of molecules, electrolyte formulations and catalysts is critical for the achievement of REDHy objectives. Electroanalytical tools were developed and implemented, which are of suitable for:

- 1) Screening the reactivity of molecules by determining the electron transfer kinetic from diluted solutions to highly concentrated ones.
- 2) Screening the reactivity of newly developed molecules with water for oxygen and hydrogen reactions in the presence of catalyst not containing critical raw materials.

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Project partners:

#	Partner short name	Partner Full Name
1	DLR	DEUTSCHES ZENTRUM FUR LUFT – UND RAUMFARHT EV
2	CNRS	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIC
3	UNR	UNIRESEARCH BV
4	UPV	UNIVERSITAT POLITECNICA DE VALANCIA
5	IDN	INDUSTRIE DE NORA SPA-IDN
6	CENMAT	CUTTING-EDGE NANOMATERIALS CENMAT UG HAFTUNGSBESCHRANKT
7	CNR	CONSIGLIO NAZIONALE DELLE RICERCHE

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