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DELYCIOUS

Clean Hydrogen Partnership

Co-funded by the European Union

# D10.2 Dissemination, Exploitation, and Communication Plan Update




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# Document control sheet

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| Project number | 101192075 | | |
| Project name | **D**iagnostic tools for **EL**ectrol**Y**zers: **C**ost-efficient, **I**nnovative, **O**pen, **U**niversal and **S**afe | | |
| Project acronym | DELYCIOUS | | |
| Call | HORIZON-JTI-CLEANH2-2024 | | |
| Topic | HORIZON-JTI-CLEANH2-2024-01-04 | | |
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| Project coordinator | Fraunhofer IWES | | |

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| Author | Linh Nguyen | |
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# About DELYCIOUS

As Europe accelerates its transition to clean energy, the Net Zero Industry Act identifies low-carbon hydrogen production as a strategic priority. DELYCIOUS tackles key challenges in water electrolysis technology, focusing on extending electrolyzer lifespans and reducing operational costs under variable renewable energy sources. In DELYCIOUS, the development of cost-efficient, innovative, open, universal, and safe diagnostic tools to investigate the chemical and electrochemical properties of electrolysis systems is foreseen. This project combines Raman Spectroscopy (Raman) and Electrochemical Impedance Spectroscopy (EIS), to explore the chemical and electrochemical properties of electrolysis systems. By using both physical and data-driven modeling, it will be possible to identify important degradation parameters. To ensure that the diagnostic tools work effectively in various temperature ranges and across various electrolysis technologies, three technologies namely Alkaline Electrolysis (AEL), Proton Exchange Membrane Electrolysis (PEMEL), and Solid Oxide Electrolysis (SOEL) are addressed in this project, with a demonstration on alkaline electrolyzer beyond 100 KW.

## Consortium

Fraunhofer IWES

Coordinator

Air Liquide

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DUMAREY

HORIBA

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stargate hydrogen

SIVONIC



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# Executive Summary

The Updated Dissemination, Exploitation and Communication Plan (DEC Plan) – D10.2 builds on the initial version (D10.1), which provides a strategic framework to promote the DELYCIOUS project's activities and outcomes, aiming to raise awareness and expand the project's impact. While revisiting several key elements of the initial version, this updated DEC Plan provides a detailed account of the implementation of dissemination and communication activities to date. It reports on the outputs achieved against the original defined KPIs, as the project progresses towards the mid-point of its implementation. The update also reflects on performance measurements and identified areas where dissemination and communication may need to be further strengthened or accelerated.

This updated DEC Plan will serve to:

- Report on the progress and outcomes of D&C activities in the past 18 months (1st phase of the project, January 2025 – June 2026)
- Provide on tentative plan for continued efforts on D&C in the next 18 months (2nd phase of the project, July 2026 – December 2027)
- Elaborate on Key Exploitable Results, paving foundation for upcoming Exploitation-focused period of the project consortium.

These objectives are reflected in the structure of the report. First, the stakeholder and target groups analysis, outlined from the D10.1, is revisited to analyse stakeholder engagement progress from M1-M18 and identify whether there is priority shift in stakeholder engagement from M19-M36. Then, Dissemination and Communication Activities already implemented and future plans are presented in the next sections. Subsequently, an update on Key Exploitable Results is presented, along with exploitation planning which is the focus of the period from M19-M36, also known as WP11.



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