D1.2 Data Management Plan

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Document control sheet

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Project coordinator	Fraunhofer IWES

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Lead Beneficiary	Fraunhofer	
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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 electrolyser 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 electrolysers beyond 100 KW.

Consortium

Coordinator

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Publishable Abstract

This document collects the workflow of the Data Management Plan (DMP) that will be used in the framework of the funded project DELYCIOUS (*Project number: 101192075*). The DMP contains data storing procedures, types of data formats, data naming conventions, and their compliance with the open-access principles.
The DMP reflects the information and dissemination level included in grant and consortium agreements and it is based on the approach "as open as possible, as closed as necessary" in accordance to the EC regulations.

The document includes:

- Data summary: the type of data used and produced during the project and their estimated size.
- Mean of compliance with the FAIR (Findable, Accessible, Interoperable, Reusable) principles.
- Curation, storage and data security.

The DMP also ensures compliance with the General Data Protection Regulation (GDPR) as well as ethical principles where applicable.

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