

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

GA No. 101137893

REDHY

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



REDHY - Deliverable report

D8.1 – Project's Corporate Identity

Deliverable No.	D8.1	
Related WP	WP8	
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Document History

Version	Date	Editing done by	Remarks
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V2	18/24-04-2024	Project partners	Few comments provided
V3	26-04-2024	Anna Molinari	Final updates
Final	29-04-2024	Tobias Morawietz	

Public Summary

The Horizon Europe REDHy project focuses on solving (some of) the limitations of contemporary electrolyser technologies by fundamentally reimagining water electrolysis, allowing it to surpass the drawbacks of state-of-the-art (SoA) electrolyzers and become a pivotal technology in the hydrogen economy. The REDHy approach is highly adaptable, enduring, environmentally friendly, intrinsically secure, and cost-efficient, enabling the production of economically viable green hydrogen at considerably increased current densities compared to SoA electrolyzers.

This report is part of the Work Package 'Dissemination and Exploitation' (WP8) aiming at maximizing the visibility and impact of the project. The main targets for this WP are: communicating and disseminating key results and innovations, ensuring engagement and promote synergies with relevant stakeholders and audiences, managing interactions with the AB and ensuring the best exploitation of the project results, identifying specific target groups.

To achieve these goals different tasks have been defined

- Task 8.1 Dissemination and Communication strategy → concerning the communication of the project to the general public. This includes defining the project website and visual identity (this document).
- Task 8.2 Clustering activities and stakeholder engagement → build networks with external experts and sister projects as part of the broad project Dissemination and Communication Plan (D8.2)
- Task 8.3 → Exploitation and knowledge protection → working on the preparation of exploitation activities including IPR protection management (D8.3, D8.4).

This deliverable D8.1, describes REDHy corporate identity, which consists of the following items:

- A project corporate identity including logo and colour scheme,
- Communication and Dissemination tools such as a project flyer/leaflet and banner created specifically for the project;
- The project website;
- Electronic newsletters (including dissemination database), which will be released on a 6-monthly basis;
- Templates for documents, reports, and PowerPoint to be used by the consortium;
- Communication products to generate broader reach of REDHy information and results (*e.g.*, LinkedIn).

The deliverable also explains the importance of a unique corporate identity for the project and how the items of the identity will be used for. All items addressed in this deliverable will be accompanied by visuals of each of the developed items. The templates are created to support project presentations, deliverables, meeting documents, and reporting requirements.

For REDHy, a website and a LinkedIn page have been set up. The LinkedIn page is used to attract a broad audience and to share important and interesting information via posts, whereas the website will act as a main channel to showcase REDHy actual results and act as a contact point for third parties who are interested in the progress and outcomes of the project.

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List of abbreviations

Abbr.	Meaning	Abbr.	Meaning
DEC	Dissemination, Exploitation, Communication	GDRP	General Data Protection Regulation
EB	Executive Board	SC	Steering Committee
GA	General Assembly	WP	Work Package

1 Introduction

Deliverable 8.1 is the first deliverable of WP8 (Dissemination and exploitation) and describes the visual identity and setting up of the project website of the REDHY project. The aim of WP8 is to maximize the visibility and impact of the project by means of various communication, dissemination, and exploitation activities. WP8 will enhance the impact of the REDHY by maximizing engagement and promoting synergies with external/relevant experts and stakeholders and will ensure successful communication and preliminary exploitation of the project results by identifying specific target audiences. The scope of this deliverable is to introduce and describe the developed tools and platforms that will be employed throughout the project duration to execute DEC activities effectively. Additionally, this report aims to highlight the importance of establishing a simple but cohesive and easy-to-recognise project visual identity to ensure consistency across all communication channels. The presence of diverse DEC tools and materials emphasizes the need for a well-defined and consistent project visual identity. The following tools and platforms will be used(/considered) during the project:

- **Project Website** (<https://www.redhy.eu>): Launched in April 2024, the project website serves as the centre for disseminating project information, updates, and resources. It provides the broader public and interested stakeholders easy access to project materials, research findings, and contact information.
- **LinkedIn**: the project's LinkedIn page will engage stakeholders, share insights, and initiate discussions relevant to REDHy's mission and objectives. LinkedIn serves as a platform for creating connections, establishing credibility, and expanding the project's network.
- **E-Newsletter**: An electronic newsletter will be circulated periodically to subscribers, providing them with project updates, highlights, and relevant news. This communication channel facilitates regular engagement with stakeholders and ensures they remain informed about project developments.
- **Conferences and Events**: Participation in conferences and events of significant impact provides opportunities to show results, objectives, and future outcomes of the project; engage with stakeholders and foster collaboration.
- **Publications**: The project aims to disseminate its findings and insights through publications in scientific journals and specialized magazines. These publications enhance the project's credibility, contribute to knowledge dissemination, and reach diverse audiences within the scientific community.
- **Press Releases**: Timely and informative press releases will be distributed to media outlets, highlighting significant project milestones, achievements, and events. Press releases serve as a vital tool for attracting media attention and generating public interest in REDHy's activities.

2 Project's corporate identity

The project visual identity has been defined and designed for the REDHY project, which includes a project logo, icon and a slogan, colour theme and [templates for text documents](#) (e.g., deliverable reports, agenda and meeting minutes) and presentation. The details of the different elements of the project visual identity are described in detail in the following sub-sections.

2.1 REDHy logo

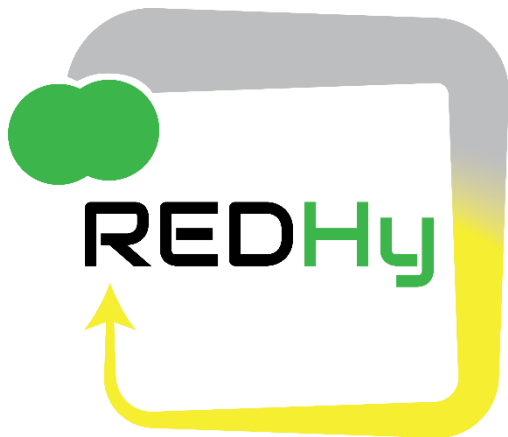
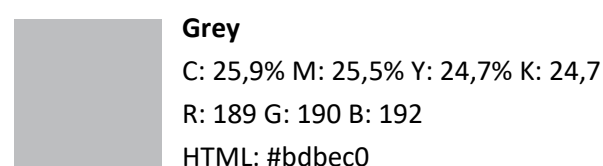
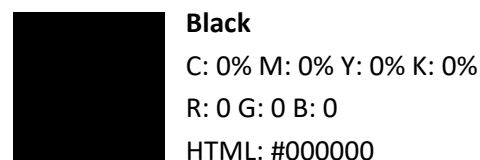
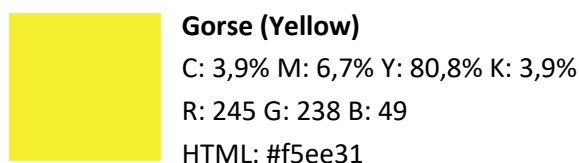
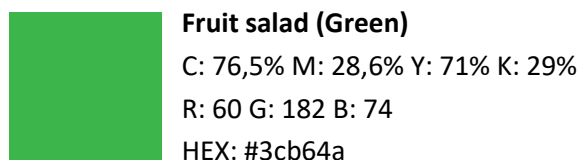


Fig. 2-1 Project logo

A colour scheme for the logo has been defined (*Fig. 2-1*) and will be persistently used in templates for text documents, reports, presentations, and various materials used for DEC activities.



2.2 Project flyer/ brochure

A flyer for the REDHy project has been prepared and will be an essential dissemination tool as it creates awareness of the project and will be used for workshops and other events related to the REDHy. The online version of this document is available for all consortium members on the website and via the online [sharing platform Teams](#). The colour theme of the flyer correspond to the logo and is consistent with the project's corporate identity. The outer side of the document contains important information about the REDHy (partners, contact details of the coordinator, project dissemination team, logo, facts and figures related to the project) and will be understandable for a broad audience. The document summarises information related to the project's key messages, the impact of the project results and the outcome of set project objectives. Fig. 2-2 presents a print screen of the REDHy flyer. The document will be update when/if necessary when more project results will be ready.



PARTNERS OF REDHY

Deutsches Zentrum für Luft- und Raumfahrt Institut für Technische Thermodynamik

CNRS INSTITUTO DE TECNOLOGIA QUIMICA

UNIRESEARCH DE NORA

CEN mat Consiglio Nazionale delle Ricerche

Clean Hydrogen Partnership

Facts and figures

Start date 1-1-2024
Duration 48 months
EU funding €2,990,238.75
Grant number 101137893

7 partners in
5 European countries.

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

Objectives

Objective 1: Develop highly efficient and durable materials free of critical raw and fluorine free materials for the REDHy technology, especially the membranes, ionomers, electrodes, redox mediators, and heterogeneous oxygen and hydrogen evolution catalysts to allow the development of a large area short stack (5 cells) with an active surface area of >100cm² per cell and a nominal power of >1.5 kW with adequate manufacturing quality guided by Europe's circular-economy action plan for a cleaner and more competitive Europe.

Objective 2: Validate the stack's efficiency and robustness to address dynamic situations frequently occurring when the electrical grid is fed by a large proportion of renewable energy sources or if the system is directly interfaced with RES.

Objective 3: Eliminate the use of and the need for critical raw materials and fluorinated membranes and ionomers at stack level.

Objective 4: Demonstrate optimization strategies for the porous electrodes to enhance their mass transport characteristics and enhance energy efficiency.

Objective 5: Demonstrate a reduced energy consumption of at least 48 kWh*kg⁻¹ H₂ by implementing highly reversible, stable redox mediators with enhanced kinetics.

Objective 6: Demonstrate a drastic reduction in interface resistances across all cell components leading to energy efficiencies >82%.

Objective 7: Demonstrate the decoupling of oxygen and hydrogen production and enabling the REDHy system to operate at minimum 5% of partial load operation (nominal load: 1.5 A/cm²) without exceeding 0.4 % of H₂ concentration in O₂.

Objective 8: Demonstrate that the REDHy technology is capable to perform efficient and direct seawater electrolysis.

Objective 9: Integrate the short stack in a prototype full system.

Objective 10: Demonstrate the operation of the REDHy electrolyzer at 1.5 A/cm² with electricity consumption of 48 kWh*kg⁻¹ over at least 1200 hours of operation with a degradation of 0.1 %/1000 hours.

Work packages:
WP1 Project Management, WP2 Redox-Mediators, WP3 Bipolar Membrane, WP4 Electrode design and optimization, WP5 Single cell REDHy prototype development and validation, WP6 REDHy system, WP7 Life Cycle and Techno-economical Assessment, WP8 Dissemination and Exploitation

Conclusion: Free from critical raw materials Cell design without the need for a membrane electrode assembly reducing the interface-resistant values across the cell components. Lower energy consumption at nominal capacity due to enhanced kinetics and lower interface resistance. Capable of operating safely and efficiently with intermittent renewable energy sources while simultaneously decoupling hydrogen and oxygen evolution, eliminating the risk of exceeding 0.4% of hydrogen concentration in O₂. Capable of long-term operation under current densities up to 1.5 A/cm² due to the high cyclability of the redox mediators and no electrochemical degradation of catalysts and electrodes.

Visit our website!

Fig. 2-2 REDHy preliminary flyer, outside and inside page

2.3 Project newsletter

The project electronic newsletter will be launched at least twice a year; its purpose is to keep the public informed about the latest achievements and events within the project. The shared information will be non-confidential and will be accompanied by visuals referring to the latest updates on the project website. It is possible to [subscribe to the REDHy newsletter](#) through the project website (as described further in section 4.1) by providing personal details (including e-mail address, first and last name). The contact details of the REDHy will be saved in the secure project dissemination database. The information about the subscribers will not be public and will be protected. The e-newsletter will provide links to the contact with the coordinator and to the LinkedIn page. Additionally, the emblem of the EU logo and the logo of Clean Hydrogen Partnership will be displayed to acknowledge the funding.



Media kit Newsletter

Project Results News / Events Partners Contact

REDHy newsletter

Subscribe here for the REDHy mailing list to receive up-to-date information about the research project. The newsletter is sent approximately twice per year. Privacy is important to us; therefore, we will not sell, rent, or share your email address or any other personal information.

Emailadres *

First Name *

Last Name *

Company *

Subscribe

Fig. 2-3 REDHy subscribe newsletter

2.4 Database for Dissemination

In addition to the project website, and linked to the registration for the project newsletter, a dissemination database has been created for REDHy.

First of all it is necessary to mention that the Communication and Dissemination manager and all project partners are committed to good and broad communication but at the same time are aware about the current privacy regulations. Therefore, project communication activities will have to comply with the current [General Data Protection Regulation](#) (GDPR) and its rules as adopted in 2018.

In order to collect and maintain the contact database the following steps will be followed:

1. Direct registration via project website
2. Via direct permission/contact by project partners
3. By participation at project-related (online) events ask permission to ask participant to the contact database.

The structure of the dissemination database has been created by UNR. Contacts and information will be added to the dissemination database throughout the entire project lifetime. In the database, the following information will be collected (whenever possible) for each contact:

- Full name
- Email address
- Name of organisation
- Focus and type of organisation (research, local authority, Energy Company, EU Commission, Legislation/standardization, etc.)
- Connection to the project
- Country and Postal Address

The dissemination database will be saved in the project restricted area (no public access to the data. More information on the contact database and also how dissemination activities will be monitored will be reported in D8.2.

3 Project Templates

To support the management of the project and to support the partners in their activities, various templates have been developed that enable the use of REDHy’s project corporate identity.


3.1 Document Templates

For the REDHy project various document templates have been created:

Agenda and minutes of meetings

The agenda and the minutes template include information about the project time, date, address, organizer of the meeting, meeting type, list of attendees, action points, agenda items and additional information regarding the availability of the documents. Fig. 3-1 displays the created template of an agenda, action points and minutes of the meeting.

REDHY – 101137893 – Agenda/Minutes

	<p style="text-align: center;">WPBL/GA/WPxx meeting</p> <p style="text-align: right;">DATE _____</p> <p style="text-align: right;">TIME from - to _____</p> <p style="text-align: right;">Telephone conference / Address _____</p>
Meeting organiser	Company Name _____
Type of meeting	GAxx / Review / WP _____
Notes by	Name (s) _____

Attendees

Partner	Full Name	Email	Present

Agenda

Item No.	Timing	Topic	Presenter/Speaker

Minutes

Agenda Item	Notes

REDHY – GA nr. 101137893 – Agenda/Minutes

Action Points


Action No	Action description	Due date	Responsible

Decisions


Decision no	Action description

Info

You can find all presentations and Agenda on the REDHY SharePoint.
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Fig. 3-1 Template of the agenda and minutes of REDHy.

Deliverable templates

The Deliverable template are available and used by all the partners to report their project deliverables. The screenshots of the template are presented in Fig. 3-2. The template contain all the necessary parts of the reports, e.g.: title page, publish summary (for confidential reports), general part of the work performed, conclusions, risk registration, acknowledgement (of the EU funding and Clean Hydrogen Partnership), a disclaimer, a list of partners and annex on quality control.

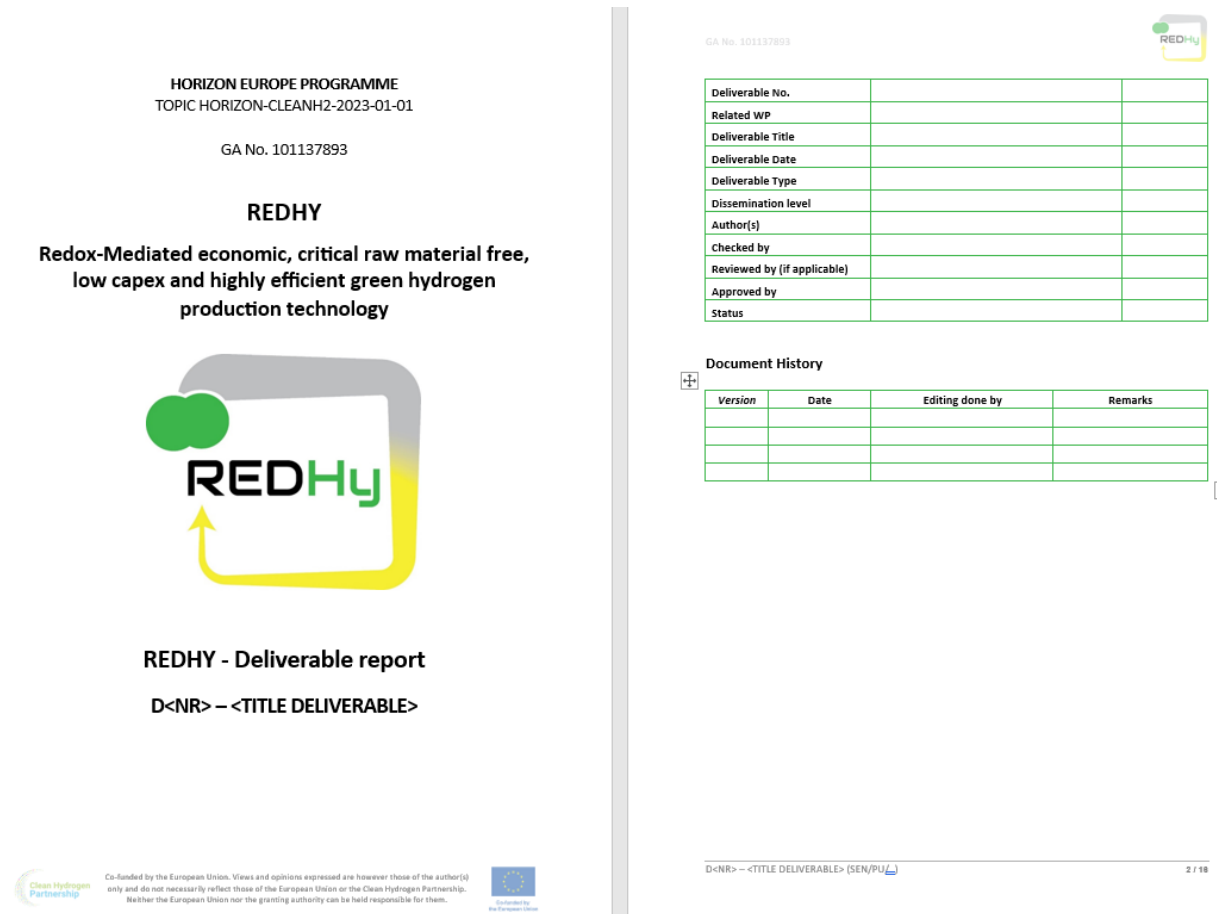


Fig. 3-2 REDHY’s Deliverable Template.

Milestone Template

All partners will use Milestone template (as presented in *Fig. 3-3*) prepared by Uniresearch to report the milestone achieved. This document aims to briefly report the achievement including the pathway to achieving the milestone, time, lead beneficiary and linked WP.

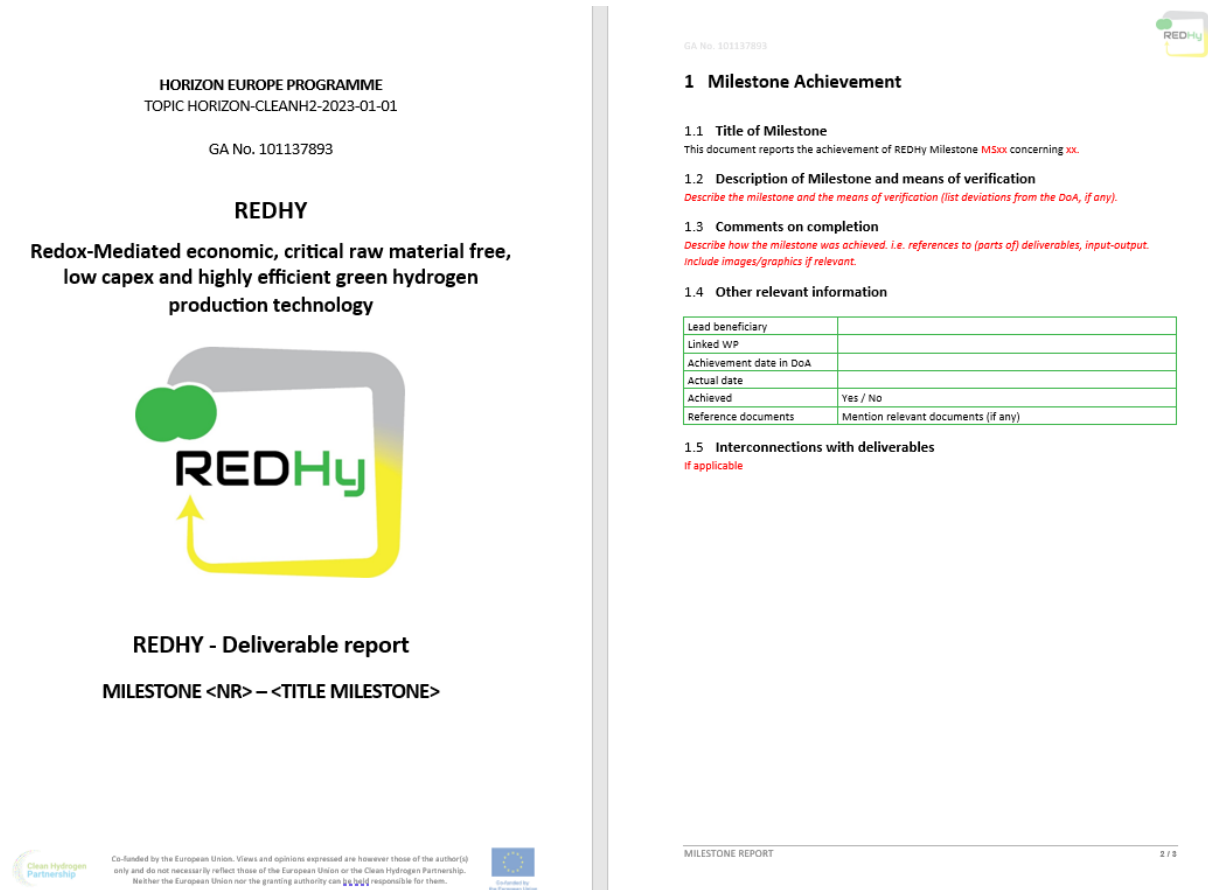


Fig. 3-3 REDHy's Milestone Template

3.2 Presentation templates

The Presentation templates will be used by the partners during REDHy meetings, for instance: General Assembly (GA), Steering Committee (SC) and Executive Board (EB) meetings, and conferences. They are available to all partners and uploaded on Teams. The presentation template includes the project logo, acknowledgement of the funding, and a disclaimer. *Fig. 3-4* and *Fig. 3-5* show the first and the final slide of the designed template.



Work Package # Title

- Click to edit Master subtitle style

- Name of WP leader

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Fig. 3.4 The first slide of the REDHy presentation template.

Acknowledgement / Disclaimer

The project is supported by the Clean Hydrogen Partnership and its members.

The project has received funding from Clean Hydrogen Partnership Joint Undertaking under Grant Agreement No 101137893. This Joint Undertaking receives support from the European Union’s Horizon 2020 Research and Innovation programme, Hydrogen Europe and Hydrogen Europe Research.

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Fig. 3.5 The final slide of the REDHy presentation template.

3.3 Reports

An internal interim report procedure has been defined to monitor the project's progress. Every six months, all the partners will be required to update their activities, PMs used, and budget information. Uniresearch has created the necessary templates, and a screenshot of the internal interim report template is displayed in Fig. 3-6. Uniresearch will also prepare and send the template for the periodic reporting (technical part) to the partners with detailed instructions before the first periodic report.

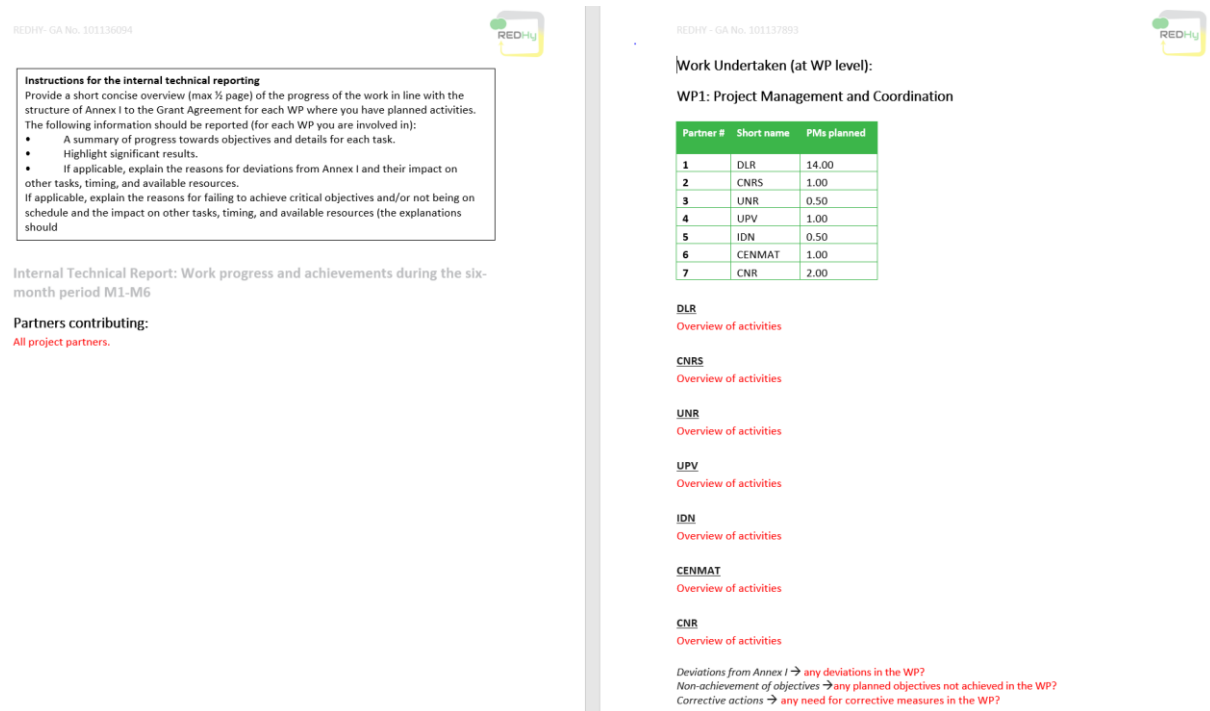


Fig. 3-6 REDHy Internal reporting template.

4 Project website

4.1 Public website

The project website has been designed to act as a main contact point for stakeholders and the public interested in the progress, achievements and details of the REDHy project <https://redhy.eu:ww>. The website menu has a structure which provides pages with different content. The homepage (Fig. 4.1) presents the fundamental aspects of the project: public summary of the project, the partners involved, including their logo and links to their channels/websites, results and updates from the news and events pages. The structure of the project website is such that icons and project-related images can (and will) be added and updated. At the time of the preparation of this report new figures are being collected. The purpose of having a visually attractive and transparent design is to attract interested parties and the general public to find more information about the project and to create greater awareness of the project results. The main goal of the project website is to inform interested third parties and the general public about the activities within the REDHy project, ongoing and completed events. Additionally, on the website there will be updates on publications related to the project and their summaries will be presented. The hyperlinks will be added to lead interested readers to the original (publisher) websites. It will also be possible [to subscribe](#) to the newsletter from the website page. The public information about the project can be found on the website and the updates will be done regularly during the project (≈ 10 times a year).

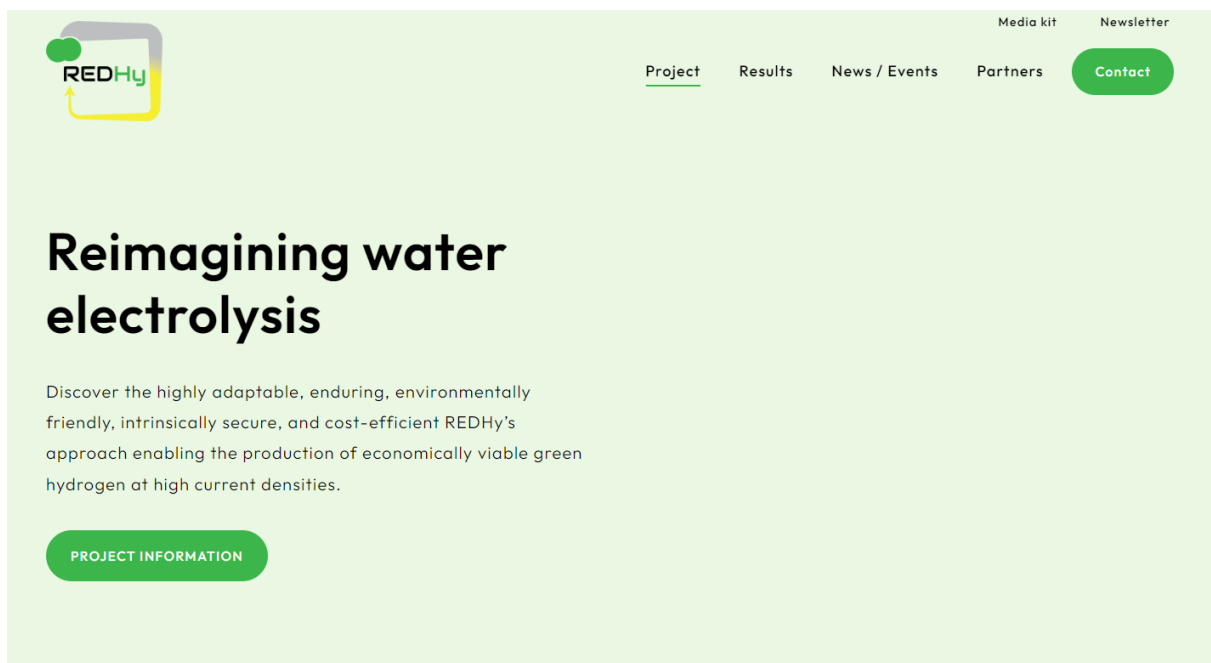


Fig. 4-1 REDHy homepage

Project introduction

REDHy is a 4-years project tackling the limitations of contemporary electrolyser technologies by reimagining water electrolysis, allowing it to surpass the drawbacks of state-of-the-art and become a pivotal technology in the hydrogen economy.

REDHy approach will play a crucial role in the upcoming hydrogen economy allowing secure subsequent investments, and showcasing the necessity for ground-breaking, innovative thinking to reach climate objectives in a timely fashion. The REDHy technology presents an alternative pathway for green hydrogen production, employing a series of cutting-edge innovations to create a more economically viable process.



Fig. 4-2 REDHy navigation menu.

4.2 Project page

The section “Project” leads to various subsections: About REDHy, Objectives, Concept, Approach, Structure, Results, Facts and Figures and Publications, as presented in *Fig. 4-3*.

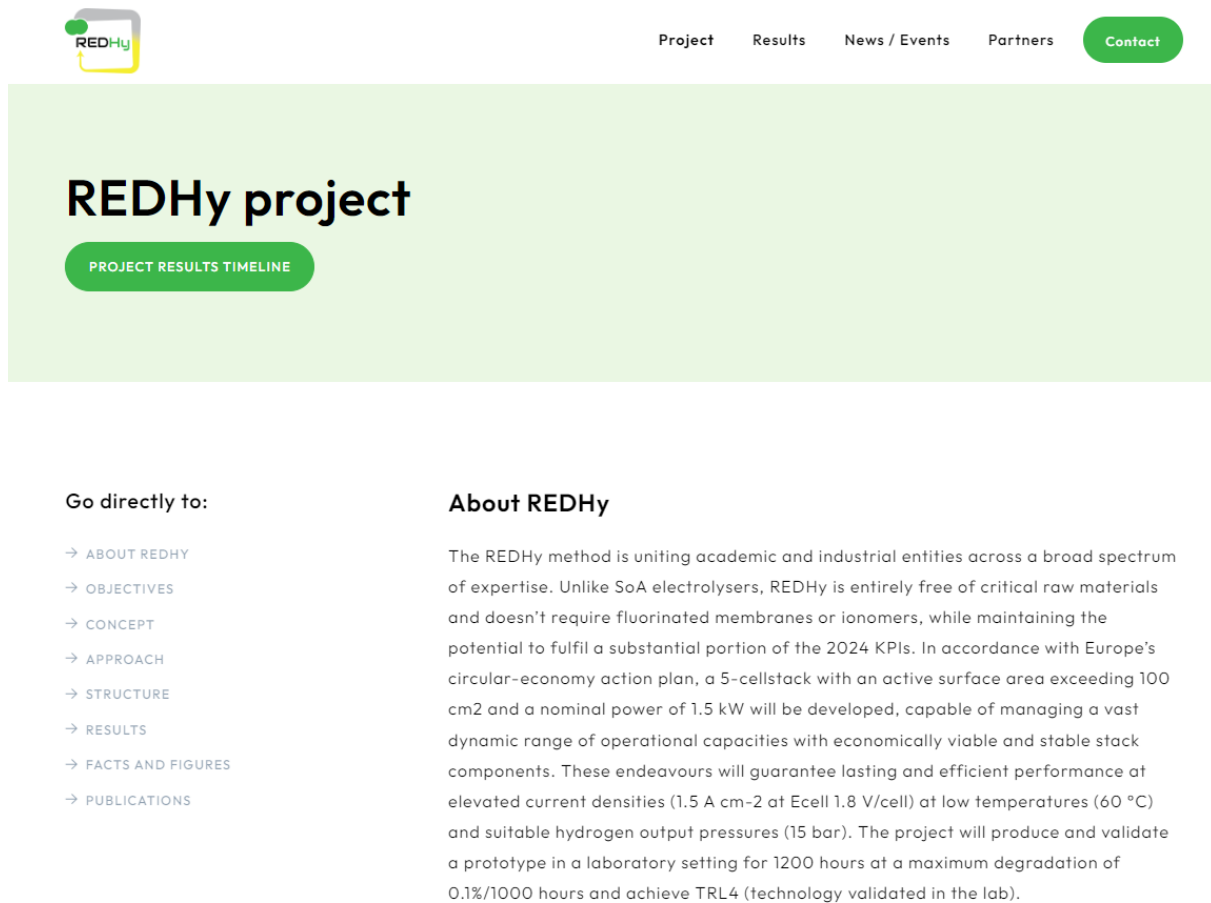
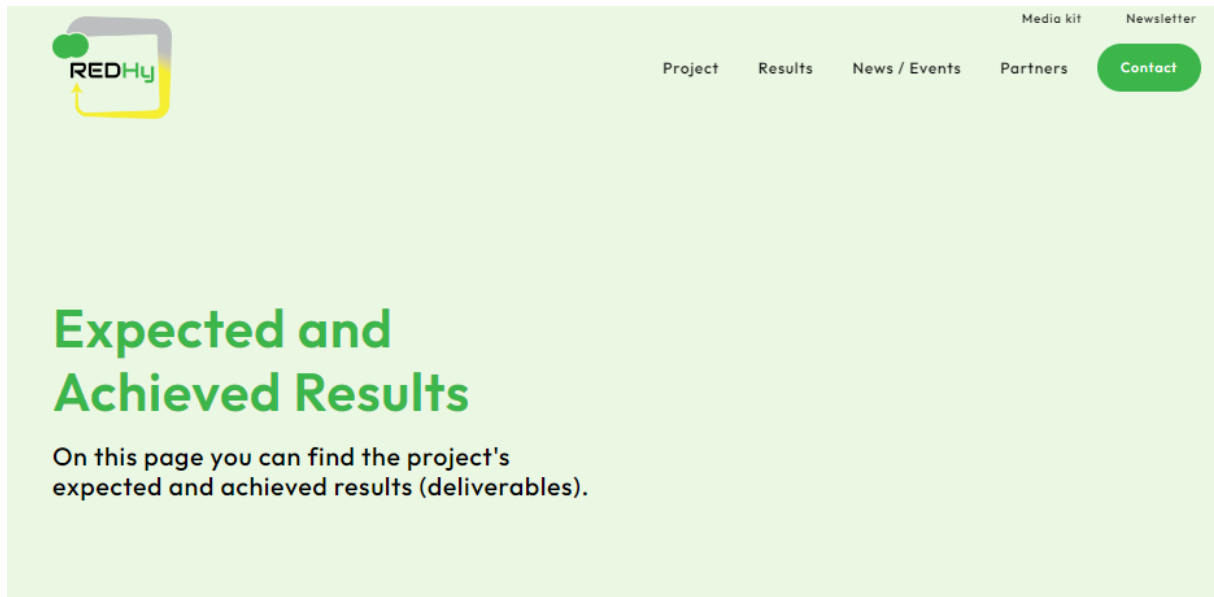


Fig. 4-3 Project section of REDHy

4.3 Result page

The section dedicated to the results focuses on: a project timeline, visually presented the most critical achievements in time; and the achieved and expected results and the overview of this section can be seen in *Fig. 4-4*. The timeline is added to the project website to show the progress of the project and to allow for an easy navigation to interesting updates. From this section it will be possible to track deliverable reports. In case of public deliverables, it will be possible to download and read the entire report and in case of confidential deliverables, only a public summary, providing an overview of the deliverable, will be available.



Go directly to:

- [PROJECT MANAGEMENT AND COORDINATION](#)
- [REDOX-MEDIATORS](#)
- [BIPOLAR MEMBRANE](#)
- [ELECTRODE DESIGN AND OPTIMIZATION](#)
- [SINGLE CELL REDHY PROTOTYPE](#)
- [REDHY SYSTEM](#)
- [LIFE CYCLE AND ASSESSMENT](#)
- [DISSEMINATION AND EXPLOITATION](#)

WP1 Project Management and Coordination

Expected / Achieved results:

- D1.1 - Quality management and knowledge management plan
- D1.2 - Data Management Plan
- D1.3 - Annual reporting for the Clean Hydrogen JU - M15
- D1.4 - Midterm publishable summary report
- D1.5 - Annual reporting for the Clean Hydrogen JU - M27
- D1.6 - Annual reporting for the Clean Hydrogen JU - M39
- D1.7 - Final publishable summary report

Fig. 4-3. REDHy results page.

4.4 News/Event page

The News/Events section will be updated regularly throughout the project lifespan. Each post published in this section will have a link to a separate page. The dynamic character of this section will keep the visitors updated on the latest achievements and encourage them to visit the website regularly.

4.5 Partners page

In the section related to partners, a description of all beneficiaries of the project will be presented. This section will provide links to their contacts, and official websites. A map presenting the location of each partner is also presented, as can be seen in *Fig. 4-5*.

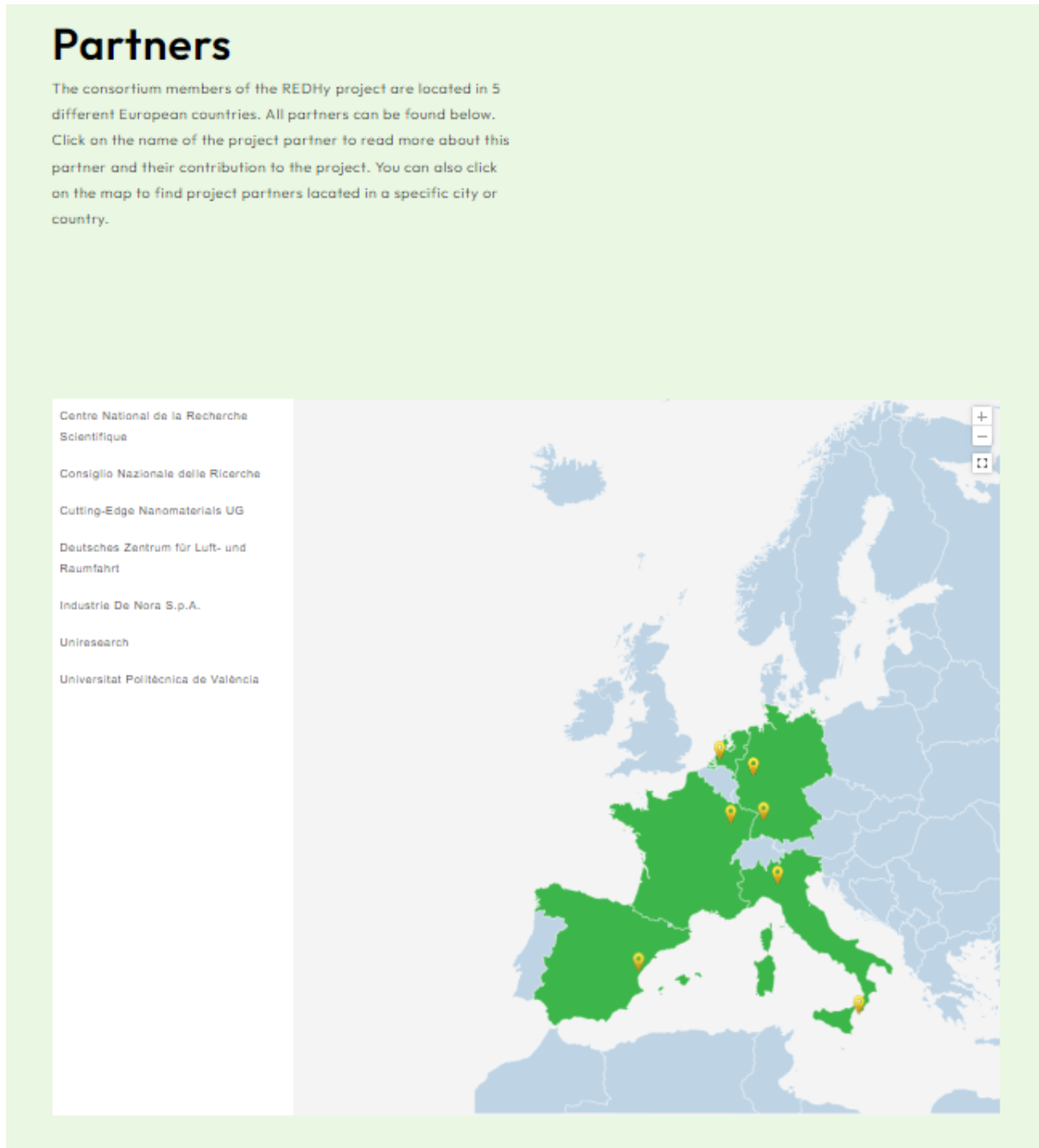


Fig. 4-5 Partners presentation section of the REDHy project.

4.6 Acknowledgement

At the bottom of each partner’s page, all website links will be attached, including the contacts to the coordinator and dissemination team. Besides, the acknowledgement of the EU and Clean Hydrogen Partnership is included (as presented in Fig. 4-6).

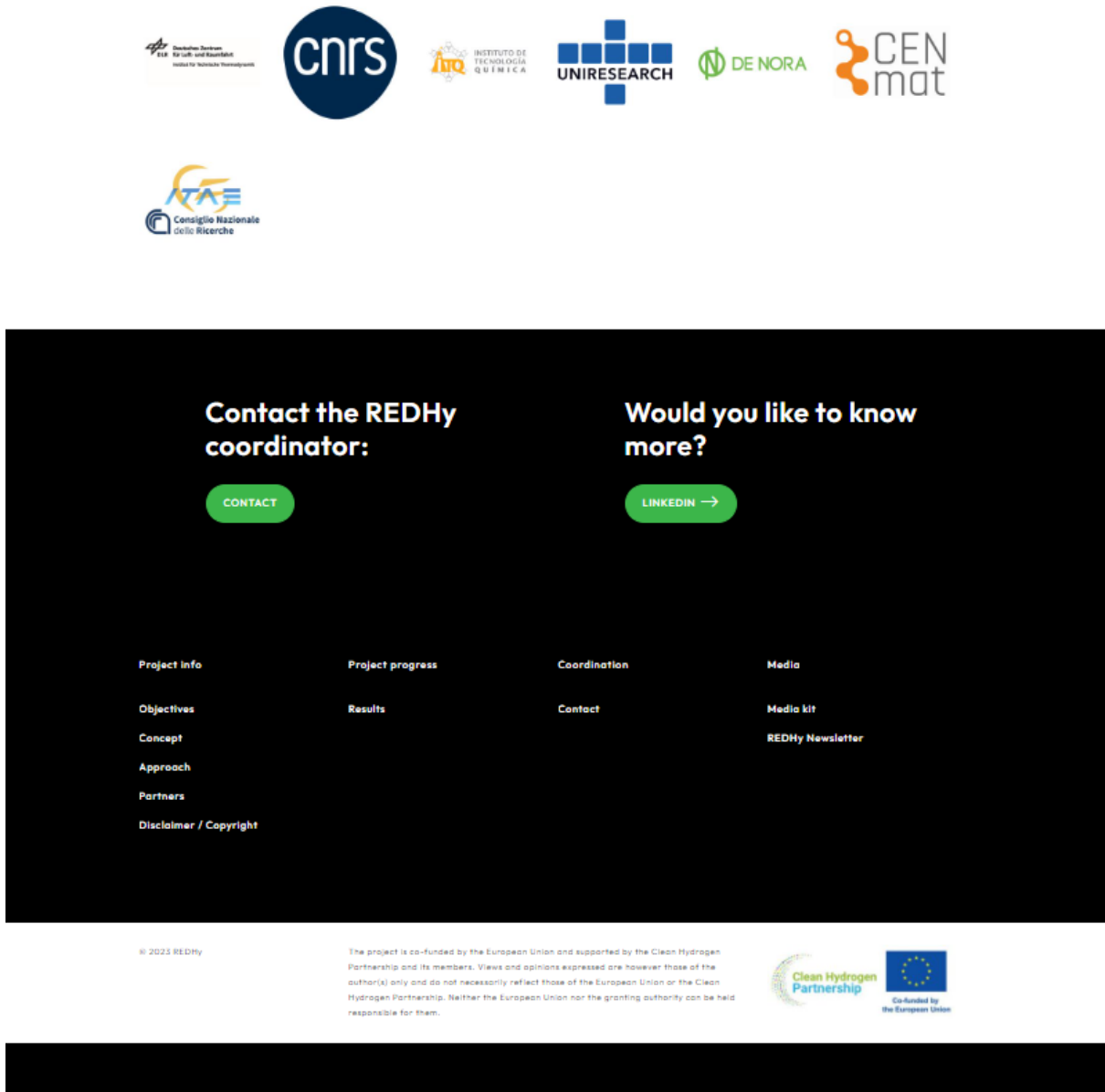


Fig. 4-6 Acknowledgement of the REDHy.



4.7 Media-kit

The REDHy Media kit link will provide access to various dissemination materials that will be used during the project lifetime, which will include: the project logo, project introduction and presentation, project brochures and flyer etc. The screenshot of the media kit is presented in Fig. 4-7 below.

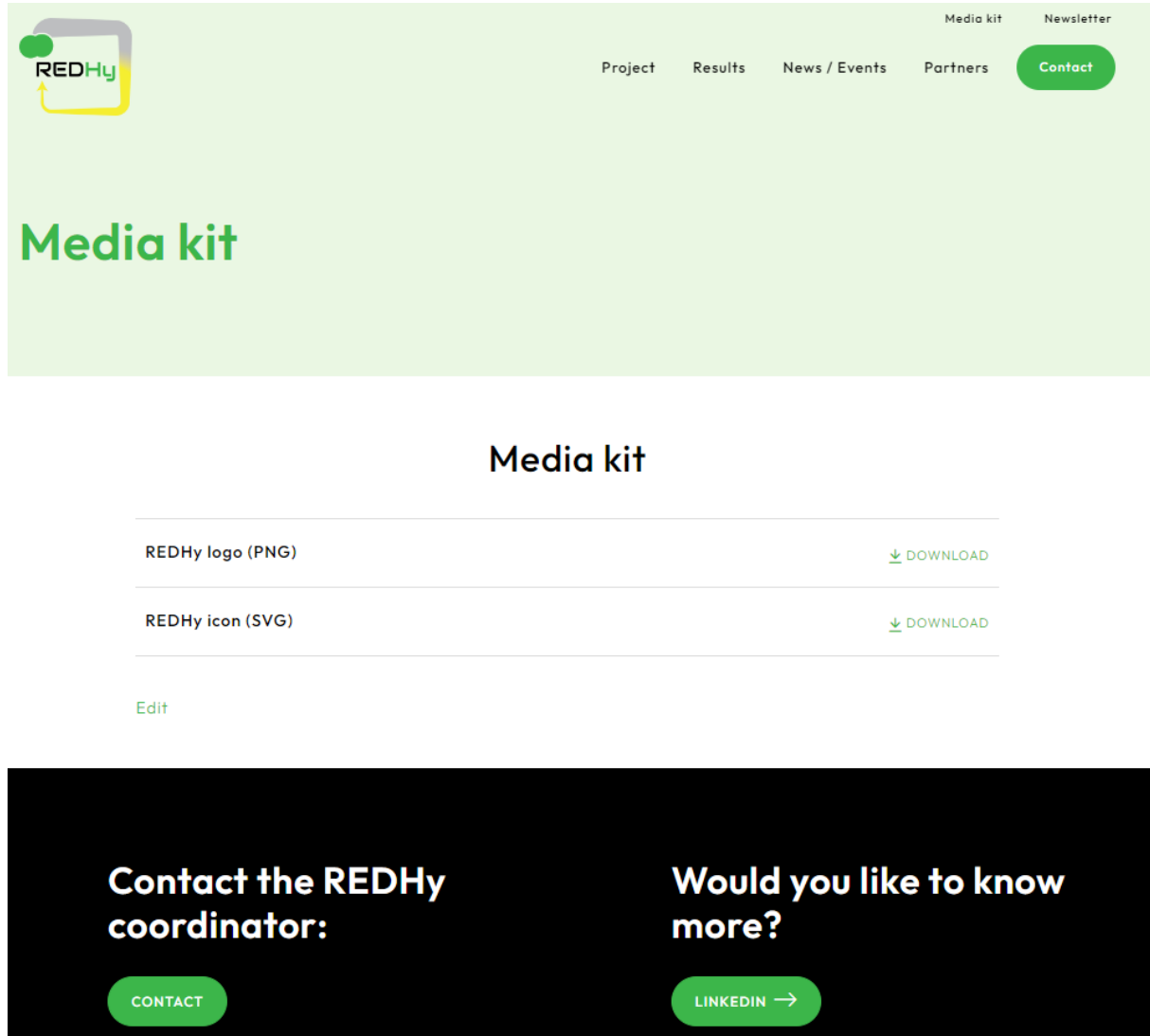


Fig. 4-7 REDHy Media kit.

5 Social media – LinkedIn

The [LinkedIn page](#) has been setup for the REDHy in April 2024 and the link to the LinkedIn page is provided on the official project website. The first LinkedIn post described the REDHy website launch. LinkedIn offers a unique environment adjusted to professional networking and business-related interactions, making it an ideal platform for showcasing projects' results to targeted audiences of professionals, industry experts, and stakeholders. Through LinkedIn promotion, REDHy can establish credibility, build relationships and gain valuable insights, ultimately leading to the project's growth and success. The LinkedIn overview presents a short summary of the project, introduces the consortium and acknowledges the funding (*Fig. 5-1*).

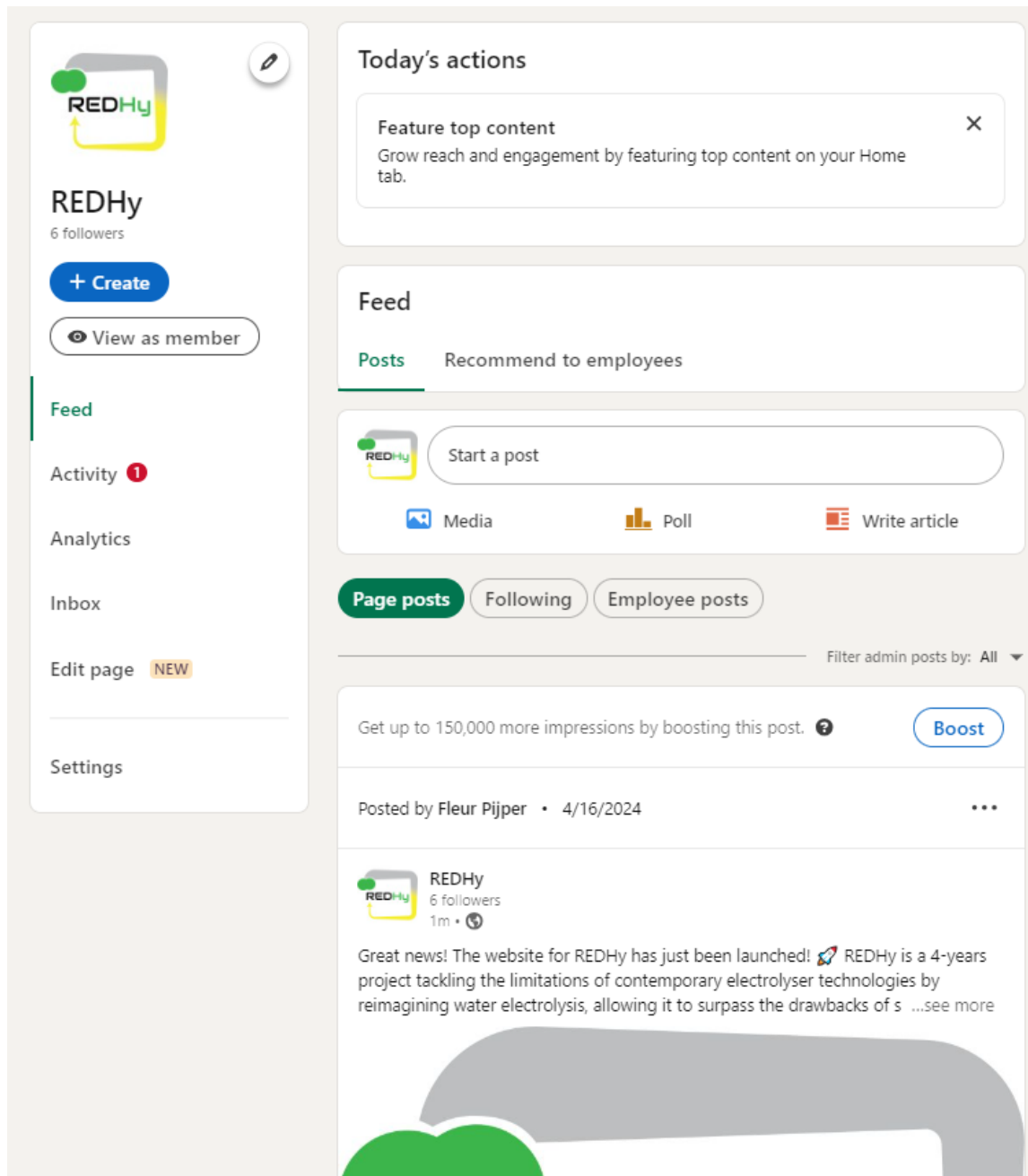


Fig. 5-1 REDHy LinkedIn Page.

6 Deviations from annex 1

At this stage there are no deviations from the description of this deliverable as given in Annex I of the Grant Agreement.

7 Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

Participant No. *	Participant organisation name	Short Name*	Type	Country
1 (Coordinator)	Deutsches Zentrum für Luft – und Raumfahrt EV	DLR	RTO	DE
2	Centre National de la Recherche Scientifique	CNRS	RTO	FR
3	Uniresearch B.V.	UNR	SME	NL
4	Universitat Politècnica de València	UPV	HES	ES
5	Industrie De Nora S.p.A.	IDN	IND	IT
6	Cutting-edge Nanomaterials CENmat UG	CENMAT	IND	DE
7	Consiglio Nazionale Delle Ricerche	CNR	RTO	IT

*IND-Industry; SME-Small and medium enterprise; RTO-Research organization; HES-Higher Educational Establishment

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