Annual Report 2023











Annual Report 2023 Hydrogen Europe Research

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June 2025







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Our Partners

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1 Foreword from the President

As we close another year of growth and innovation, we are reminded of the extraordinary potential of hydrogen to reshape our world. Hydrogen Europe Research stands at the heart of this transformation, fostering collaboration, advancing research, and supporting policies that accelerate the transition to a sustainable, net-zero future.

This year has been marked by both challenges and breakthroughs. From navigating a rapidly evolving energy landscape to contributing to major European initiatives, we have worked tirelessly to ensure that hydrogen remains a cornerstone of Europe's clean ambitions. Our efforts have been guided by the shared vision of our members, whose expertise and dedication continue to inspire and push us forward.

Looking ahead, the path is clear but demanding. We must deepen our focus on innovation, invest in skills development, and strengthen the ecosystem that will make hydrogen a competitive and sustainable solution for Europe. This journey is not one we take alone — it is a collective endeavour, fueled by partnerships, collaboration, and the commitment of all who believe in the transformative power of hydrogen.

As we embark on another year, let us carry forward the momentum we have built, the lessons we have learned, and the vision we share. Together, we will shape a future where hydrogen is not just an energy source but a catalyst for change, prosperity, and resilience across Europe.



Luigi Crema
President,
Hydrogen Europe
Research

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Hydrogen Europe Research is an international non-profit association representing over 152 universities and research and technology organisations (RTOs) from 29 countries across Europe and beyond. Our members are key contributors to the European hydrogen and fuel cell sector.

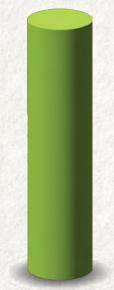
As a rapidly growing organisation, we have seen our membership and geographic reach double over the past 13 years!

We believe that bold and innovative research is essential across the entire hydrogen value chain. Our vision is to drive the development of advanced hydrogen technologies, paving the way for a fully integrated, sustainable, and decarbonized energy system.

Our mission is founded on four key pillars:







Championing

excellence

in European

hydrogen

and fuel cell

research.

Encouraging the

Ensuring sustainable development advancement of standards for a research and technology clean hydrogen infrastructures to ecosystem. accelerate innovation and scale up



Advancing education and training to equip the European hydrogen economy with a highly skilled workforce.





development.



The Executive Board meets monthly to review and guide the association's operations.

Members of the Executive Board in 2023



Luigi

Crema

Fondazione

Bruno Kessler

(IT) - President







Christian Sattler

German Aerospace Center - DLR (DE) - Vice President & Treasurer

Daria

Vladikova Trakia University (BG) - External Affairs Leader

Executive Board

General Assembly

members.

The Executive Board consists of 10 elected representatives: the President, Vice-President and Treasurer, the Chair for External Affairs, and the seven Technical Committee (TC) Leaders overseeing the activities of their respective TCs within the Clean Hydrogen Partnership.

The General Assembly serves as the association's highest decision-making body, responsible for setting its overall policy direction. It convenes at least twice a year and includes participation from all

In 2023, the General Assembly convened in June in Madrid, and in November in Brussels. Both events

Board members are elected for a two-year term, with the latest elections held in May 2022.

were hybrid and saw the participation of more than 150 people online and in person.

Following Laurent Antoni's resignation in December 2022, Luigi Crema, Director of the Centre Sustainable Energy at Fondazione Bruno Kessler and former Hydrogen Production Technical Committee Leader, was elected President of Hydrogen Europe Research during an Extraordinary General Assembly on 24 January 2023.

Julie Mougin, Deputy Director for Hydrogen technologies at CEA, was also elected during the Extraordinary General Assembly to replace Luigi Crema as Hydrogen Production Technical Committee Leader.

Technical Comittee Leaders



Mougin Commissariat à

l'énergie atomique et aux énergies alternatives - CEA (FR) - Hydrogen Production Technical Committee Leader



Ekain **Fernandez**

Tecnalia (ES) - Hydrogen Distribution Technical Committee Leader



Steffen Møller-Holst

Sintef (NO) - Transport Technical Committee Leader



Viviana

Cigolotti ENEA (IT) - Heat & Power and Industry Technical Committee Leader



Jedicke Karlsruhe Institute

of Technology (DE) - Cross-Cutting Technical Committee Leader



Ludwig Jörissen

Center for Solar Energy and Hydrogen Research Baden-Württemberg - ZSW (DE) -Supply Chains Cross-Technical Committee Leader



Figueruelo Aragon Hydrogen Foundation (ES) -Hydrogen Valleys Cross-Technical Committee Leader







The Secretariat, composed of three full-time employees, manages the association's daily operations under the supervision of the Executive Board.

Secretariat









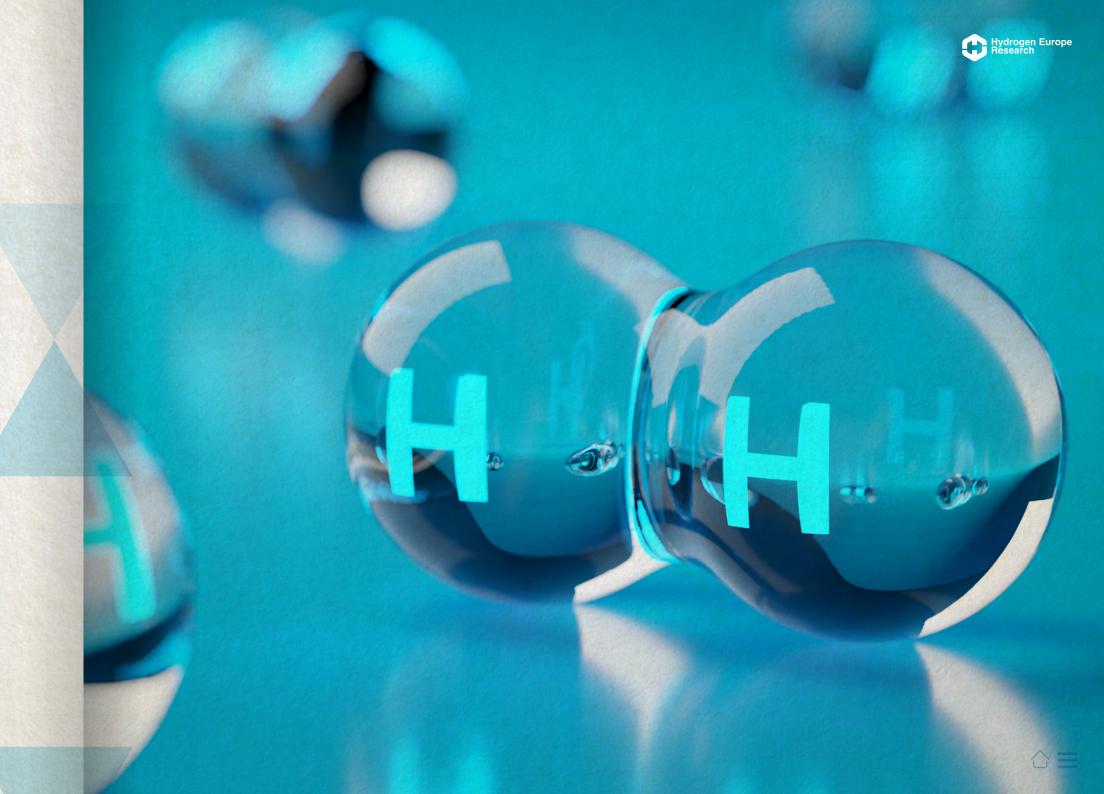
Louis Mazurkiewicz Innovation Manager

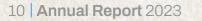
Julia Cora Project Manager

Simona Vitali Communications & Membership Manager

Since April 2023, an external freelancer has been assisting with our administrative and financial tasks.









The goal of reaching 150 members was successfully achieved in October 2023. This milestone reflects the continuous growth and engagement of our network. We are proud to represent a diverse group of institutions committed to advancing hydrogen technologies and fostering collaboration across the sector.

In 2023, we welcomed 24 new members into our community:



Fundación Cidetec



University of Groningen



University of Ljubljana niversity of Ljubljana

b-tu Brandenburgische Technische Universität

Brandenburg University of Technology



Faculty of Engineering at the University of Mondragon



Plocan - Oceanic Platform of the Canary Islands



Rzeszow University of Technology



DI PADOVA

University of Padua



AGH University of Science and Technology





CERIC

Central European Research Infrastructure Consortium (CERIC-ERIC)



CATIM - Portuguese Technological center for the metal working industry



Campus Sul



Danish Technological



FUNDECYT-PCTEX/CIIAE



RWTH Aachen University



CETIM - French technical center for mechanical industries



CSIC - Spanish National Research Council State



Technical University of Berlin



Turku University of Applied Sciences



LEITAT



Isinnova



Wrocław University of Science and Technology



Energieinstitut an der Johannes Kepler Universität Linz



Abo Akademy

▼ In 2023, three members resigned from the association:



University College London (United Kingdom);



EMPA (Switzerland)



University of Antwerp (Belgium)

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Collaboration with external partners is essential to our success, and we actively engage with a wide range of stakeholders. These partnerships are crucial in driving forward innovation, advancing research, and achieving our shared goals in the hydrogen sector.



Clean Hydrogen Partnership

The Clean Hydrogen Partnership, as per its legal name "Clean Hydrogen Joint Undertaking", is a distinctive public-private partnership dedicated to supporting research and innovation (R&I) in hydrogen technologies across Europe.

The three members of the Joint Undertaking are the European Commission, the hydrogen industry, represented by Hydrogen Europe, and the research community, represented by Hydrogen Europe Research.



Hydrogen Europe

Hydrogen Europe is the European association representing the interest of the hydrogen industry and its stakeholders and promoting hydrogen as an enabler of a zero-emission society.

With more than 600 members, they aim to propel global carbon neutrality by accelerating the European hydrogen industry.



EURAMET - European Association of National Metrology Institutes

EURAMET is the European Association of National Metrology Institutes. They coordinate the cooperation of National Metrology Institutes (NMI) and Designated Institutes (DIs) in Europe in fields such as research in metrology, traceability of measurements to the SI units, international recognition of national measurement standards and related Calibration and Measurement Capabilities (CMC). Through knowledge transfer and cooperation among their members, EURAMET facilitates the development of the national metrology infrastructures.

In March 2023, Hydrogen Europe Research and EURAMET signed a Memorandum of Understanding to harness the synergies between the hydrogen and metrology communities.







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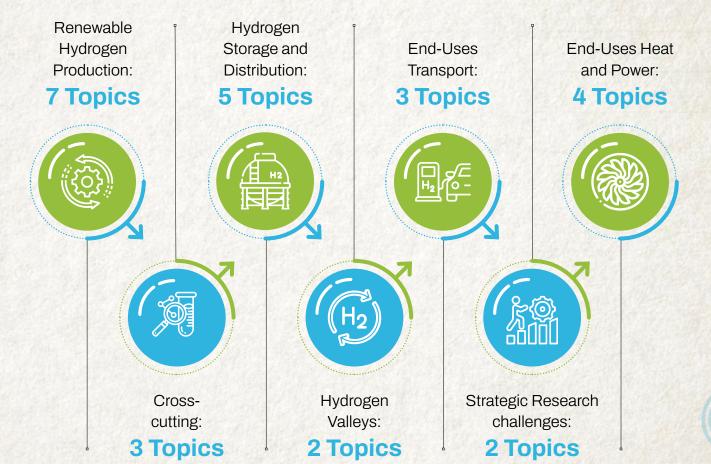
Clean Hydrogen Partnership



During the year 2023, the Clean Hydrogen Partnership has made important achievements. At the end of this term,

half of the overall operational budget of the Clean Hydrogen JU for the period from 2021 to 2031 has been committed, and the overall portfolio of projects has doubled in size (number of projects).

As part of Annual Work Plan 2023, the 2023 Call for proposals (HORIZON-JTI-CLEANH2-2023-1) was published on 17 January 2023, with an indicative budget of EUR 195 million. The deadline for the submission of proposals was 18 April 2023. The Call included 26 topics, distributed among the areas of activity of the Clean Hydrogen JU and its SRIA as follows:



On 26 January 2023, a public Info Day took place online. At the deadline, the 2023 Call for proposals received 132 proposals, with 122 proposals satisfying the eligibility and admissibility criteria.

Source: Annual Activity Report Year 2023, Clean Hydrogen Partnership







Hydrogen Valleys Declaration

On 1 March 2023, Commissioner Mariya Gabriel (on behalf of the European Commission), Hydrogen Europe Research President Luigi Crema, Hydrogen Europe CEO Jorgo Chatzimarkakis, and S3 European Hydrogen Valleys Partnership Coleader Tjisse Stelpstra, signed a joint declaration on Hydrogen Valleys during the event "Repowering the EU with Hydrogen Valleys" in Brussels.

With this declaration, the European hydrogen industry, the scientific community, and European regions, together with the European Commission, committed to joining efforts to support and accelerate the research, development, demonstration and deployment of Hydrogen Valleys and the related infrastructure to achieve the targets set in the European Hydrogen Strategy and REPowerEU, and pave the way towards a climate-neutral, circular, competitive, and energy-secure economy in Europe.

Preceding the Hydrogen Valleys event with Commissioner Mariya Gabriel, the Programme Office of the Clean Hydrogen Partnership, the European Hydrogen Valleys Partnership and the



Northern Netherlands region organised a twoday workshop titled "Towards an EU roadmap for hydrogen valleys – Regional actors and their role", focused on hydrogen valley projects in Europe.

The purpose of this two-day workshop was for the regional and local actors to talk about current opportunities and challenges in rolling out and scaling up Hydrogen Valleys in Europe. The event was participated by hundreds of participants from all over Europe. HER President, Luigi Crema, was present in Session 1, titled "Collaboration of H2 Valleys", which had a successful engagement of public and private stakeholders.



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2023 Activities and Achievements





Green Skills for Hydrogen



The Green Skills for Hydrogen Project is contributing to the development of a skilled workforce in Europe

for the emerging hydrogen economy by addressing the skills gap and providing training to boost the industry. Over a period of four years, the project will contribute to achieving the REPowerEU2030 targets by expediting the upskilling and reskilling of students and workers throughout Europe.

The Consortium managing this initiative is led by the Karlsruhe Institute of Technology and has a total of 34 partners from 15 Member States of the European Union. These partners comprise six Work Packages (WP) that will jointly coordinate the various activities and tasks to be carried out throughout the life of the project. Hydrogen Europe Research supports the Work Package 1, 2, 5.



Hydrogen Europe Research will be allocated €102.515,00 for its contribution.



On 14-15 June 2023, the partners of the Green Skills for Hydrogen project gathered for their General Assembly at Politecnico of Torino. The meeting advanced the development of a new Hydrogen VET curriculum for Europe and the creation of the European Hydrogen Skills Community. This vibrant community aims to foster networking, collaboration, and continuous learning, driving Europe towards a greener and more sustainable future.

In June 2023, the Hydrogen Skills Strategy was also published. The Strategy provides insights into the current educational and training landscape for hydrogen skill development in Europe. The comprehensive study, conducted between November 2022 and March 2023,



involved 146 stakeholders from 23 countries.

With the hydrogen sector projected to create 249.000 jobs by 2030, this Strategy is a crucial guide to training and empowering individuals to excel in this booming industry.

European Hydrogen Observatory



The European Hydrogen Observatory (FCHO) is a platform providing data

and up to date information about the hydrogen sector. Its objective is to address the lack of data publicly available at EU and national level concerning the uptake of fuel cell and hydrogen technologies on

the EU market and the absence of a coordinated methodology on how to monitor their market evolution.

The Observatory was created for the use of policy makers, industry stakeholders and the general public equally, and is the main public portal for European hydrogen data. Initiated under FCH 2 JU, as the Fuel Cells and Hydrogen Observatory, EHO continues its activity as of November 2021 under the support of the Clean Hydrogen Partnership.

An official re-launch took place on 29 September 2023, to mark the new brand, website and functionalities. EHO focuses on technology and market statistics, socio-economic indicators, policies and regulations, and financial support. The Observatory website is being continuously developed and expanded with additional data sets and key information for the hydrogen sector's stakeholders.

Hydrogen Europe Research is responsible for keeping the education and training material up to date; for this task, we are entitled to a remuneration of €5.500 per annual update, up to €22.000 in case of four requested updates.

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Working Groups

Policy Working Group

In March 2023, Hydrogen Europe Research members provided their feedback to the consultation on the European Research Innovation (R&I) Framework programmes based on their experiences and continuous implication in the Joint Undertaking on Hydrogen and Fuel Cells.

In June 2023, members of the Policy Working Group provided feedback on the Net-Zero Industry Act (NZIA), highlighting its significant targets to advance the fuel cells and

hydrogen sector for the benefit of the European economy.

Skills Working Group

During the Skills Working Group meeting in February 2023, employees perspectives on career paths and trainings in the hydrogen sector were

presented. Intelligence on funds was provided, following the presentation of the ESF+ funding for skills by Louise Reid, European Commission, DG Empl, Team Leader ESF+ Thematic Coordination.

During the Skills Working Group meeting in October 2023, projects and best practices on trainings and education were presented, together with an overview of the policy situation on skills during the the EU Year of Skills.

During Hydrogen Week, a panel on skills titled "Skills to Power-Up, Empower, and Repower: The New Workforce Needed for the Hydrogen Economy" was held to present the funding recommendations for European action on hydrogen skills.



During the General Assembly in June 2023, Luigi Crema announced the establishment of two new working groups within Hydrogen Europe Research.

The Low TRL Research Working Group will provide a discussion platform dedicated to supporting the excellence of European research on hydrogen technologies. The main objective of this Working Group will be to advise on priorities and opportunities coming from low TRL research contributing to the update of our research and innovation roadmaps, the identification of annual priorities for annual Calls for proposals and future HER position papers.

The Research and Technology Infrastructures Working Group will provide a forum for discussion with the aim of identifying means to promote the development of RIs and TIs for the hydrogen sector. The new Working Group will also be tasked to keep the mapping of the research and technology infrastructures present within the Hydrogen Europe Research membership, and possibly beyond, up to date.

A kick-off webinar was held on 27 September 2023 for Hydrogen Europe Research members interested in knowing more about these topics.

During the first meeting of the Research and Technology Infrastructures Working Group, held on 5 December 2023, the mapping of HER members' research activities and Research & Technology Infrastructures were presented.

The first meeting of the Low TRL Research Working Group was held on 6 December 2023. during which several topics were discussed. These included a reflection on the achievements of the Clean Hydrogen Partnership, identifying areas for improvement, and determining what should be supported (and in which format) beyond 2027. Additionally, internal reflections and discussions took place regarding which low TRL (Technology Readiness Level) research activities, including early-stage and development actions, should be supported in the coming years and decades.

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Communications and Visibility

Launch of the Intranet

To enhance member connectivity and access to exclusive resources, Hydrogen Europe Research launched its intranet in February 2023. This platform offers in sights into the ongoing activities of the Working Groups and the Clean Hydrogen Partnership.



Promotional Video

In collaboration with Impact Media, a promotional video was developed to highlight our achievements and the advantages of joining Hydrogen Europe Research.

The video celebrates our fifteen years of dedication to the hydrogen sector, showcasing how we have grown since our founding in 2008 into Europe's largest

research association in hydrogen technologies. It was showcased at the Hydrogen Europe Research Members Pavilion at the Hydrogen Week.



Monthly newsletter

We continued the work started in July 2022 with our monthly newsletter, which features news and updates on our activities, as well as contributions shared by our members.

This initiative ensures regular communication and fosters a sense of community within Hydrogen Europe Research.











Webinars: "Meet Our Members"

Our webinar series "Meet Our Members" began successfully on 18 January 2023.

The inaugural session focused on electrolysis, featuring presentations from members working on various technologies, including AEL, PEMEL, SOEL, AEMEL, and PCCEL; the other webinars covered the rest of the hydrogen value chain and the structure of the Clean Hydrogen Partnership.

These webinars aimed to foster collaboration among members by providing a platform for sharing research projects and identifying potential partners. Member presentations remain accessible on the intranet.



Discussion Dinner with Spanish Stakeholders in Madrid

On 6 June 2023, a discussion dinner on Fuel Cells and Hydrogen Technologies was held with Spanish stakeholders. This event raised awareness about clean energy solutions such as hydrogen and explored financial and political barriers to implementation in Europe. Attendees included representatives from Spanish Ministries, agencies, and industries, as well as organisations such as the Spanish Hydrogen Association, CDTI, and IEA Hydrogen TCP. The event provided an excellent opportunity to present hydrogen as a key player in environmental and economic sustainability.



General Assembly in Madrid

On 7 June, the General Assembly took place in Madrid, hosted by the Universidad Politecnica de Madrid (UPM). The hybrid meeting was attended by over 123 organisations from 29 countries. Highlights included updates from the Board, the introduction of 23 new members, and presentations on communications, policy, and skills activities. Our President, Luigi Crema, unveiled plans for two new Working Groups focused on Low TRL Research and Research and Technology Infrastructures.

Exhibition at Hydrogen Week

During Hydrogen Week, Hydrogen Europe Research participated as an exhibitor, showcasing the work of ten member organisations. Our Pavilion at booth C10 in Hall 11 attracted hundreds of visitors daily.



We thank our members for their participation:

Central European Research Infrastructure Consortium (CERIC-ERIC)



Cetim. the French Technical Center For Mechanical Industries



Commissariat à l'énergie atomique et aux énergies alternatives (CEA)



European Research Institute for Gas and Energy Innovation (ERIG)



Fondazione Bruno Kessler -

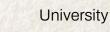


German Aerospace Center (DLR)





Luxembourg Institute of Science and Technology (LIST)



University of Oulu



Universidad Politécnica de Madrid (UPM)

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General Assembly in Brussels

On 21 November 2023, our General Assembly convened in a hybrid format. The meeting, which included a joint business lunch with the HIGGS project, was attended by over 136 organisations.



Young Scientist Award 2023

The Young Scientist Award, held during European Hydrogen Week, celebrated the achievements of young researchers within our member organisations. This year's winners included:

Hydrogen Production:
Drialys Cardenas Morcoso (Luxembourg Institute of Science and Technology)

- Hydrogen Storage and Distribution:
 Tom Depover (Ghent University)
- Hydrogen Usages: Elena Crespi (Fondazione Bruno Kessler -FBK)
- Cross-Cutting Activities:
 Sergii Kashkarov (Ulster University)
- Best Researcher of the Year: Giovanni Di Ilio (University of Naples 'Parthenope')



This annual competition aims to encourage young talents to engage in Clean Hydrogen Partnership projects and pursue careers in hydrogen and fuel cell technologies.







Specifically, the running costs for the year include:

Accounting and Administrative Costs: expenses related to financial management, record-keeping, and

 <u>IT Costs</u>: this includes the costs for IT infrastructure, software licenses, and any related services necessary to support our digital operations.

o <u>Financial Charges</u>: such as bank fees and transaction costs.

Events & Communications: €69.530,89

compliance with regulations.

The Events & Communications line includes all expenses related to the organisation of events (such as our General Assemblies and the Hydrogen Week) and the communication efforts required to promote the association's activities.

EY Law & Accountant: €4.981,32

This line covers the fees paid for legal and accounting services provided by external professionals or firms which offer expertise in these areas. Specifically, it includes costs associated with consulting legal experts (Ernst & Young) for contracts, compliance issues, legal advice, or any other legal matters that require professional support, and accounting services to assist with financial reporting, tax filings, and general financial advisory.

Rental costs: €70.000,00

The "Rental Costs" line refers to expenses related to leasing an office space for the organisation in Avenue Marnix 23, 1000, Brussels.

In 2023, Hydrogen Europe Research continued to maintain a strong financial position, allowing us to expand our activities and better support the European hydrogen research community.

This section provides an overview of our income, expenses, and financial highlights for the year, reflecting our commitment to transparency and responsible management of resources.

Income Sources

The total income for the year amounted to € 540.308,64 derived from:

Membership Fees: € 510.308,64.

These are the yearly fees paid by member institutions to join your organisation and access its services, events, and benefits.

European Projects: € 31.128,75

The European Hydrogen Observatory's annual budget and the budget allocated for the GreenSkills4H2 project enable us to actively contribute to these European initiatives and projects.

Expenses

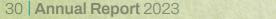
The total expenses for 2023 were €407.834,62 allocated as follows:

Running costs: €31.796,62

The running costs of Hydrogen Europe Research include the essential day-to-day operational expenses required to keep the organization functioning efficiently. These costs cover a range of administrative, technical, and financial needs.









Financial Overview



Human Resources: €215.507,09

This line includes costs associated with the employment and management of personnel within the Secretariat. These costs ensure retention and development of a skilled workforce to support the organisation's operations and goals. It covers:

- Salaries: the compensation paid to employees.
- o <u>Payroll Taxes and Contributions</u>: statutory employer contributions to social security, pension funds, or other government-mandated programs.
- HR Administration: costs associated with managing human resources, such as HR software, payroll systems, and fees for legal and compliance services related to employment laws.

In these costs, the expenses for a freelance Administrative Assistant's salary are included.

HER Young Scientist Awards: €9.080,04

The "HER Young Scientist Awards" line includes all expenses related to awarding the prizes for the Young Scientist initiative within the organisation. This covers:

- Award Prizes: each of the five winners receives €1.000.
- Event Costs: expenses related to the ceremony, including trophies and other materials.
- <u>Logistics and Travel</u>: we cover transportation, accommodation, and meals for the winners attending the ceremony in person.

IKAA: €6.358,99

The "IKAA" line includes the services paid to PKF Little John, a consulting company we engage to assist with the annual gathering exercises.

Green Skills For Hydrogen: €579,67

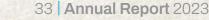
These are the expenses incurred by the employee to carry out tasks and attend events related to the project.

From the 2023 balance between income and expenses of €132,474.02, we allocated €70.000,00 to establish risk and communication funds. These funds are designated for 2024 and 2025, ensuring we are equipped to address potential financial risks.















Assets and Bank Accounts on 31 December 2023

CURRENT ACCOUNT	1.258.900,50€	
SAVINGS ACCOUNT	243.366,58 €	
TANGIBLE ASSETS	1.074,44 € (1.514,17 € - 439,72 €) [1]	
AMOUNT RECEIVED IN ONE YEAR	56.358.49 €	
DEFREED CHARGES & ACCURED INCOME	1.438,45 € [2]	
TOTAL AMOUNT OF ASSETS	1.561.138,46€	

^{1]} Depreciation of €439,72 for an asset purchased in 2023 (purchase value: €1,517.17).

Hydrogen Europe Research is entering 2024 with a strong financial foundation, ready to support our initiatives and broaden our impact across the hydrogen sector. As we look to the future, we remain dedicated to fostering innovation, collaboration, and strategic progress. Our focus will be on securing new funding opportunities, managing resources responsibly, and building on our achievements to further advance the development of a sustainable and competitive hydrogen ecosystem in Europe.



^{2]} Deferred charges: Payment was made in advance for a service that will be delivered in a future year.



Approval and Signatures of the Board Members

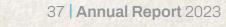


We, the undersigned members of the Executive Board, hereby confirm that we have reviewed and approved this annual report.

Name & email address	Position	Date	Signature
Luigi Crema crema@fbk.eu	President	11/06/25	Lug Piene
Christian Sattler Christian.Sattler@dlr.de	Vice President & Treasurer	11/06/25	Che Sale
Daria Vladikova d.vladikova@iees.bas.bg	External Affairs Leader	12/06/25	Down
Julie Mougin julie.mougin@cea.fr	Hydrogen Production Technical Committee Leader	14/06/25	AT

Name & email address	Position	Date	Signature
Ekain Fernandez <u>ekain.fernandez@tecnalia.com</u>	Hydrogen Distribution Technical Committee Leader	11/06/29	THE WALL
Steffen Møller-Holst Steffen.Moller-Holst@sintef.no	Transport Technical Committee Leader	11/06/2025	Helle
Viviana Cigolotti viviana.cigolotti@enea.it	Heat & Power and Industry Technical Committee Leader	11/06/25	Vione Cyclott
Olaf Jedicke olaf.jedicke@kit.edu	Cross-Cutting Technical Committee Leader	26/06/2025	Alas.
Ludwig Jörissen ludwig.joerissen@zsw-bw.de	Supply Chains Cross-Technical Committee Leader	11/66/25	hr
Guillermo Figueruelo gfigueruelo@hidrogenoaragon.org	Hydrogen Valleys Cross-Technical Committee Leader	12/06/025	

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Hydrogen Europe Research



https://hydrogeneuroperesearch.eu