

Annual Report

2023



Message from the ESEIA President



Harald Kainz
ESEIA President

‘As outgoing President of ESEIA and immediate past Rector of TU Graz, I am proud to see that the organisation is striving after being in its driving seat for 12 years.

I am certain that ESEIA will be most successful in FP10 knowing that ESEIA can rely on dedicated members who contribute R&I and E&T to the ESEIA Working Groups. 📌

Geopolitical conflicts are popping up as we are slowly entering post fossil fuel age. The transformation of societies in the world causes enormous tensions. Like wildfires resulting from climate change these conflicts take ages to be concealed let alone be resolved by restoring peace.

There is a strange but scientifically founded correlation between political tensions, i.e. wars, and energy crises, and energy is also used as a weapon. In this explosive climate the European Green Deal gives hope for freedom and social security by intensifying production of renewable energy sources and de-fossilising all sectors.

After a few years of fierce European competition for funded Horizon projects and struggling with the pandemic, ESEIA got lucky in securing funding of one project in 2022, WEFE4MED (22-25) led by the Cyprus Institute and of two more new projects EMERGE (23-26) and INITIATE (24-27) coordinated by the University of Zagreb FSB.

The three successful proposals answer directly to the three core aims of the ESEIA Strategy 2030. Our new projects are cutting edge as they conceptually build on nexus innovation ecosystems, they contribute to capacity-building in the partner institutions, and foster international partnerships in different regions of the African Union, and the Widening countries.

Finally, I am proud to have initiated the **ESEIA Lecture Series for Climate Neutrality** which is a major contribution to the public dialogue on energy solutions.

I thank you all for your wonderful cooperation!

Graz, December 2023

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Introduction by the ESEIA Director

In order to make sure that the ‘tail does not wiggle with the dog’ as they say, in other words that there is still room for developing ESEIA further as an organisation, in addition to supporting ESEIA funded projects, the ESEIA Team have started a planning process called **New ESEIA_34** looking ahead ten years. This process is aimed at repositioning ESEIA in the context of the Green Deal and ensuring **success in EC Framework 10** for research and innovation. You will find more information about this new project in this report and in future communication.



Brigitte Hasewend
ESEIA Director

‘I would like to thank all Team members, especially **Dr Hana Lee** who was recently promoted ESEIA Senior Project Manager because of her excellent work. I would also like to thank Project Assistant **Dr Tihana Novak**, ESEIA Communication Manager **Viktoriya Zoriy**, Project Manager **Zina Mej bri**, Project Assistant **Sila Celebi**, as well as Senior Project Advisor **Richard Wheeler** for their remarkable contributions. 📌

About ESEIA

At ESEIA, we strive to create a more efficient, affordable and sustainable energy system in Europe and we believe that collaboration is key to making this happen.

The ESEIA Working Groups (WGs), made up of around 300 experts across our membership, are the driving force of our organisation. In 2023, the five ESEIA WGs submitted nine project proposals for Horizon Europe and other EU-funded programmes, making significant contributions to the advancement of sustainable energy, and set up nine cooperative practice-oriented training events across Europe, benefiting 350+ students, young scientists and professionals.

Furthermore, through our various WGs and initiatives, we were able to bring together experts from a wide range of disciplines and sectors to share knowledge, drive innovation, and collectively address the complex challenges we face today.

Our Vision

The vision of ESEIA is to be the first European address for sustainable energy systems innovation.

Our Mission

By 2030 we will have enabled Europe to reach its energy targets by contributing research, education and training on innovative sustainable energy systems.

Our Strategy

- 1. Agenda setting in renewable energy systems innovation:** With their interdisciplinary and trans-sectorial expertise, the five ESEIA WGs are well equipped to advise EC decision-makers on the key issues, existing knowledge gaps and necessary implementation instruments to achieve a sustainable and highly competitive renewable energy system in Europe by 2050.
- 2. Capacity-building for people and institutions:** The ESEIA Education and Training Programme (ETP) offers students, academics and professionals a wide range of opportunities to develop their professional and research skills within the field of Smart Energy Systems and Energy Transition. Over 800 students and professionals have participated in our courses in the past ten years.
- 3. Forging European and international partnerships:** ESEIA continuously seeks to promote international cooperation in research and innovation and will focus on strengthening connections with partners outside the EU, especially in Africa.

New ESEIA_34

Together with its members and partners, ESEIA is making significant progress in achieving the goals outlined in its Strategy 2030. In order to expand its impact and initiatives and succeed in the next EU Framework Programme 10 (FP10) for R&I, ESEIA has launched a new project called *New ESEIA_34*.

This project is strategically designed to bring numerous benefits to ESEIA members. As ESEIA grows and expands its pool of expertise, ESEIA members benefit from an enriched environment to network and collaborate on innovative projects, maximising their research impact.

- 1 Enhance impact** by developing ESEIA 2034 Strategy, improving the ESEIA service portfolio, monitoring and evaluating impact, and exploiting results.
- 2 Strengthen relevance in the world** by integrating and enlarging membership.
- 3 Foster Research and Innovation** by focusing on R&I portfolio and enhancing R&I cooperation.
- 4 Build Capacity** by developing an Education and Training programme dedicated to ESEIA Next Generation.
- 5 Grow** by ensuring sustainable funding, and diversifying income sources.
- 6 Build Team** by ensuring adequate skills level, effective management on all levels, and enhancing the retention time of qualified staff.
- 7 Enhance Visibility** of ESEIA through communication and dissemination activities, position papers, and engaging in dialogue with stakeholders, and influencing EU policy-making.

ESEIA

European Sustainable Energy Innovation Alliance

ESEIA FP10 Position Paper Questionnaire 2023/2024

General Information

Name

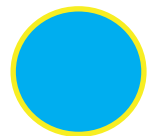
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Member Organisation

Role in the ESEIA

The New ESEIA_34 project positions ESEIA members to play a more influential role in policymaking, amplifying their voices in shaping the future of science, technology, and innovation in Europe, especially now as we look ahead to FP10. While planning and setting the direction for future activities, ESEIA will regularly seek input from its members. The first step has already been taken with an FP10 Questionnaire that will ultimately result in a Position Paper to influence decision-makers, fill R&I gaps, and address future trends. The Position Paper is expected to be published in March 2024.



WG 1 Bioresources, Biobased Economy and Bioresource Utilization

The ESEIA WG 1, coordinated by **Michael Bongards**, TH Cologne, DE, integrates three Focus Groups: Biorefineries and Biobased Industrial Products, Bioeconomy and Circular Economy, and Bioenergy use of Biobased Fuels and Biowastes. In 2023, the ESEIA WG 1 submitted four project proposals:



AERATE proposed to establish an industrial symbiosis between inorganic industries and integrated biorefineries by promoting advanced microalgae-derived fuels from inorganic waste water streams. The project aimed at overcoming several critical limitations by introducing ground-breaking research innovations throughout the entire value chain of microalgae-based biofuels industry. *Coordinator: H. Himanshu, TH Cologne, DE. Result: Rejected.*



MYDROBE proposed to produce sustainable green hydrogen from unexploited feedstocks, such as cattle and pig slurry/manure, organic fraction of municipal solid waste, and organic wastewater, by integrating a Dark Fermentation step with a Microbial Electrolysis. *Coordinator: H. Himanshu, TH Cologne, DE. Result: Rejected.*

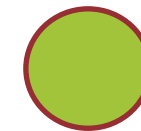


eBioFLARE proposed to develop and increase the availability of next-generation technologies for the production of novel advanced liquid and gaseous biofuels from biogenic residues and wastes. By focusing on the development of innovative processes and ground-breaking materials, including catalysts and membranes for the production of biomethanol, the project aimed at making the energy supply more sustainable, secure and competitive. *Coordinator: Ana Machado, NOVA, PT. Result: Rejected.*



RESFARM proposed to integrate renewable energy production and sustainable agricultural practices, promoting innovative business models, exploring smart energy solutions, addressing environmental impacts, and maximising synergies for a more efficient and profitable bioeconomy. By implementing these energy solutions and sustainable farming practices, the project aimed at reducing greenhouse gas emissions and strengthening rural communities. *Coordinator: Gines Campos, LifeWatch ERIC, ES. Result: Rejected.*

The ESEIA WG 1 was also involved in Education and Training events coordinated by ESEIA WG 5, namely the ESEIA International Summer School on *Green Hydrogen Solutions for Climate Friendly Energy Production* and the ESEIA Lecture Series titled *Sustainable Energy Innovation Systems for Climate Neutrality*.



WG 2 Energy Transition in Urban Regions

The ESEIA WG 2, coordinated by **Goran Krajačić**, UNIZAG FSB, HR, is concerned with energy transition in cities and their hinterland. The WG integrates four Focus Groups: Smart Mobility, Smart Grids, Smart Energy Efficiency Buildings, and Advanced Computing for Energy Transition. In 2023, the ESEIA WG 2 submitted four project proposals:



INITIATE proposed to improve global competitiveness and visibility of Europe's higher education institutions, through stakeholder collaboration and institutional reform, by designing an approach that considers the institution's needs, available resources, policy barriers, good practices from other initiatives, and potential collaboration opportunities with other institutions and local ecosystems. The project aimed to create critical mass in areas such as the green transition, and contribute to the implementation of relevant ERA Policy Agenda actions in the higher education sector. *Coordinator: Marko Mimica, UNIZAG FSB, HR. Result: The proposal was accepted and the project is set to kick-off in February 2024.*



ARENA proposed to develop a common set of modular technical, educational, and methodological components that would allow rapid uptake of new solutions for radically revising existing water food-energy nexus challenges in urban and non-urban African communities. The project focused on renewable energy solutions, both technologically reliable and economically viable, to accelerate the energy transition in Africa. *Coordinator: Richard Wheeler, ESEIA. Result: Rejected.*



GREEN2MANAGE proposed to optimise the performance of buildings and buildings' portfolios across the board. Specifically, the project aimed at developing an advice solution (the G2M Solution) that leveraged existing operation and management tools within building portfolios covering different typologies. *Coordinator: Carlos Ochoa, IERC, IE. Result: Rejected.*



GREENIFY proposed to empower Widening RTOs, through the availability of the necessary tools and know-how to increase research capacity, raise research management and administrative skills, and support scientific excellence in green energy transition. *Coordinator: Marko Mimica, UNIZAG FSB, HR. Result: Rejected.*

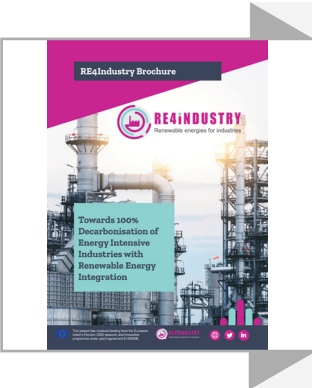
ESEIA Working Groups

The ESEIA WG 2, together with the ESEIA WG 5, was involved in two more Knowledge Transfer Seminars organised in the framework of the Horizon 2020-funded project RE4Industry. The third seminar took place 14 March 2023 in Brasov, RO, hosted by the Transilvania University of Brasov. The fourth and final seminar took place 13 June 2023 in Zagreb, HR, hosted by UNIZAG FSB.

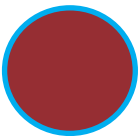


2023 also marked the completion of the RE4Industry project that was launched in September 2020 with the goal of facilitating a smooth and more secure transition to the adoption of renewable energies for the EII sector in Europe. Under the title *Capturing competitiveness: carbon removal, renewable energies, and feedstock efficiency for EIIs*, the project's final event took place 20 June 2023 in Brussels, in the margin of the European Sustainable Energy Week (EUSEW), bringing together around 50 experts to discuss the future of the European industry.

 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 952936.



The **RE4Industry Brochure** offers insight into the work carried out in the framework of the project to support the decarbonisation of EIIs. In addition to an overview of the **EIIs sector status in Europe**, it provides information on flagship organisations successfully adopting renewable energy solutions, presents the **three industrial case studies** - Corbion, Sinedor, and Mytilineos - and the most promising renewable energy technologies for heat and electricity generation for EIIs. Additionally, the **RE4Industry Industrial FORA Report**, published during the project's lifetime, represents a **vision for decarbonisation** and provides insights from industry and the sector in the EU.

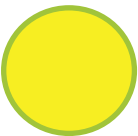


WG 3 Smart Energy Materials

The ESEIA WG 3, coordinated by **Tina Zužek**, JSI, SI, addresses the synthesis, processing and application of advanced energy materials to be used for improving the energy efficiency of renewable energy production, harvesting, and storage systems. In 2023, the ESEIA WG 3 submitted one project proposal in collaboration with EPNOE:



BioZEEMEC proposed to develop sustainable energy harvesting, storage and conversion systems, and provide a new generation of doctoral researchers with the skills to navigate the evolving landscape of sustainable development. *Coordinator: Magnus Norgreen, MIUN, SE. Status: Submitted.*

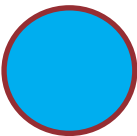


WG 4 Governance, Business Models and Legal Frameworks

The ESEIA WG 4, coordinated by **Frans Coenen**, UTwente, NL, focuses on the radical shifts that energy transition brings about in governance, social and business models, and related regulatory and legal regimes.

Frans Coenen was nominated as the new coordinator of the WG 4 in October 2023, following the retirement of **Michiel Heldeweg**. We want to express our gratitude to Michiel Heldeweg and wish Frans Coenen success with his new role!

The ESEIA WG 4 was involved in Education and Training events coordinated by ESEIA WG 5, namely the ESEIA Lecture Series titled *Sustainable Energy Innovation Systems for Climate Neutrality*.



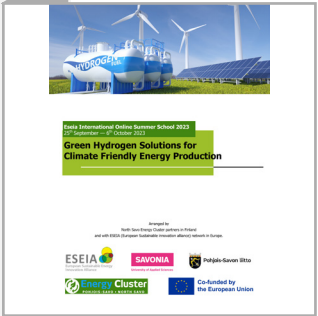
WG 5 Education and Training

The ESEIA WG 5, coordinated by **Fabio Montagnino**, CYI, CY, conceives and implements cooperative training courses under the ESEIA Education and Training Programme, namely International Summer Schools, Student Camps, and ESEIA Conferences.

In 2023, the ESEIA WG 5, in cooperation with other ESEIA WGs, organised a total of nine Education and Training events: six ESEIA Lectures, two RE4Industry Knowledge Transfer Seminars, and the ESEIA International Summer School.

The ESEIA International Summer School 2023 was hosted online by Savonia University of Applied Sciences (Savonia UAS) in Finland from 25 September to 6 October 2023.

The ESEIA International Summer School 2023, dedicated to **Green Hydrogen Solutions for Climate Friendly Energy Production**, was successfully held online **from 25 September to 6 October 2023**. This year's edition, hosted by **Savonia UAS**, FI, aimed to enhance knowledge of diverse green hydrogen solutions and facilitate networking among international participants. The two-week programme included lectures, mentoring, group projects and presentations, attracting **25 students, mostly from Austrian and Finnish universities**.



Key Training Events

In 2023, ESEIA was proud to support students, young scientists and professionals by providing them with a wide range of learning and networking opportunities that have culminated in nine Education and Training events and benefited 350+ participants from 10+ countries.

RE4Industry Knowledge Transfer Seminars

In 2023, two more Knowledge Transfer Seminars, designed to discuss how to accelerate the shift from fossil fuels towards 100% RE solutions in EIs, took place in RO and HR as part of the Horizon 2020-funded project RE4Industry.

The third RE4Industry Knowledge Transfer Seminar was held 14 March 2023 in Brasov. The seminar took place at the RTD Institute of the host Transilvania University of Brasov, bringing together 58 participants (43 on-site and 15 online).

The fourth RE4Industry Knowledge Transfer Seminar was held 13 June 2023 in Zagreb. Hosted by UNIZAG FSB, the seminar took place at Hotel International. It marked the completion of the series, attracting 58 participants (38 on-site and 15 online).

The speaker line-up featuring experts in different fields ensured a high level of expertise and knowledge exchange during the seminars.

With a total of **261 participants from 15 countries**, the four hybrid seminars proved to be a key aspect of the RE4Industry project, serving as a platform for key EU stakeholders to gather and explore a diverse range of topics crucial to achieving full decarbonisation of EIs.



 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 952936.

ESEIA International Summer School

Organised by Savonia UAS, the ESEIA International Summer School on *Green Hydrogen Solutions for Climate-Friendly Energy Production* was attended by 25 participants from Austrian and Finnish universities. The two-week online course included lectures, mentoring, group projects and presentations. The invited lecturers included academics from organising and partner universities and industry experts from companies acting on energy markets and focusing on climate-friendly solutions.

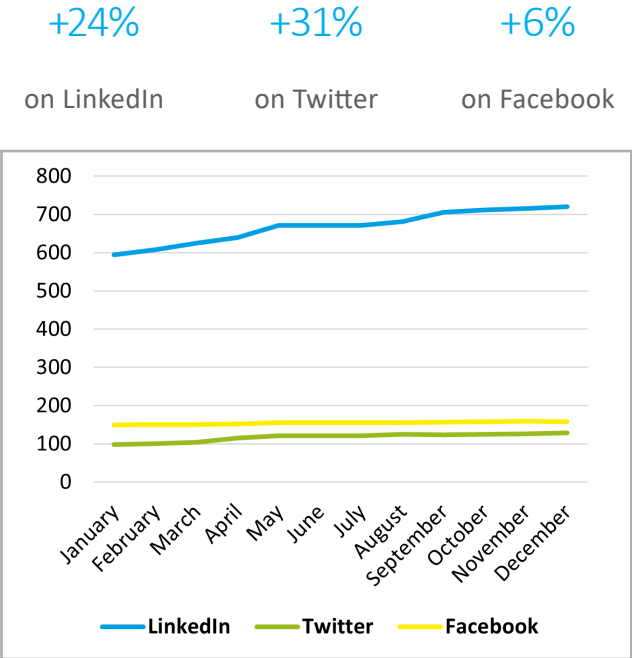


Follower Growth on Social Media in 2023

In 2023, ESEIA enhanced its online presence. In total, 180+ updates were published on LinkedIn, Twitter, and Facebook, with 1500+ users reached every month. To maximise opportunities to promote ESEIA's multiple events and activities, we have actively used LinkedIn, Twitter, and Facebook throughout the year. The key objective was to increase followers and user engagement and boost website traffic. By implementing strategic planning and timely content delivery, ESEIA achieved its objective and enhanced its online presence.



Viktoriya Zoriy
ESEIA Communications Manager



Key Training Events

ESEIA Lecture Series
Sustainable Energy Innovation Systems for Climate Neutrality

New European Bauhaus for Climate Neutral Cities: Novel ways of engaging with urban and natural heritage

The third lecture, delivered by the Professor at the Department of Urban Design at VILNIUS TECH **Gintaras Stauskis** on 27 April 2023, focused on New European Bauhaus and its core values. 33 participants from 7 countries joined the event.

Fourth Lecture, 27 April 2023



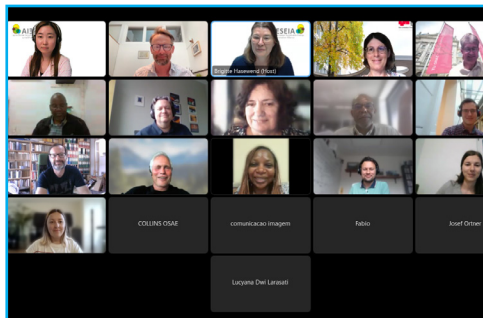
Fifth Lecture, 25 May 2023



Circular Bio-Based Systems: metabolon From Theory to Practice

The fourth lecture, delivered by the Professor at TH Köln – University of Applied Sciences **Michael Bongards** on 25 May 2023, focused on the circular economy, its challenges and opportunities. 29 participants from 6 countries joined the event.

Sixth Lecture, 22 June 2023



Water-Energy-Food-Ecosystems in Sustainable Communities in the EU and Africa

The fifth event took place on 22 June 2023, featuring two lectures on the WEFE Nexus delivered by **Thomas Schauppenlehner**, University of Natural Resources and Life Sciences, Vienna (BOKU), and **Richard Wheeler**, ESEIA. 20 participants from 8 countries joined the event.

‘It is very important to have a place to discuss different positions when we are pressed to realise this transformation to become climate-neutral in Europe.’

Brigitte Hasewend, ESEIA Director

Sixth Lecture, 21 September 2023



De-Fossilization of Industry and Mobility: How can it work?

The seventh lecture, delivered by **Georg Brasseur**, former President of the Division of Mathematics and the Natural Sciences of the Austrian Academy of Sciences, on 21 September 2023, focused on de-fossilisation pathways for industry and mobility in Europe. 75 participants from 4 countries joined the event.

Eighth Lecture, 16 November 2023



ESEIA Round Table On the way to climate-neutrality using Bio-based Materials

The ESEIA Round Table took place on 21 September 2023, during the 8th EPNOE International Polysaccharide Conference, featuring an expert panel discussion on how bio-based materials can pave the way towards a greener future. 15 participants from 2 countries joined the event.

Seventh Lecture, 21 September 2023



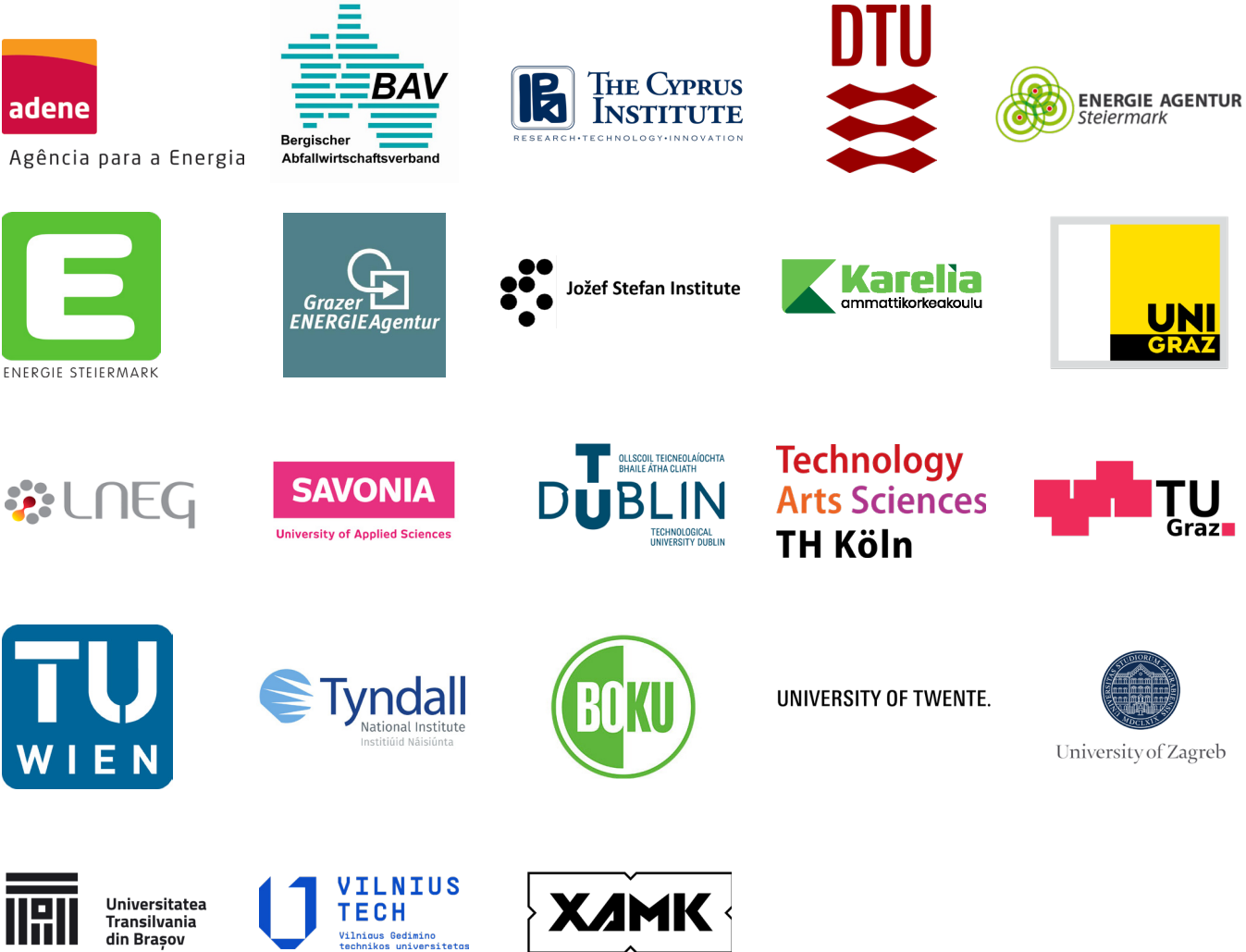
Smart Integration of Sustainable Mobility Solutions for Urban Areas

The eighth lecture, delivered by the Director of EIT Urban Mobility Innovation Hub Central **Judith O'Meara** on 16 November 2023, focused on urban mobility and the pressing need for innovative solutions to make cities more sustainable. 49 participants from 10 countries joined the event.

ESEIA Membership

ESEIA Members

In 2023, ESEIA had **23 member organisations in 12 European countries**, representing 14 Higher Education Institutions, four research organisations, and five businesses. Our cross-sector membership includes leading international actors from all sides of the knowledge triangle - businesses, research and education organisations and public institutions – to foster sustainable energy systems innovation.



New Membership Enlargement Strategy

In 2023, ESEIA continued its outreach efforts for membership enlargement. The new Membership Enlargement Strategy aims to identify and attract new members, focusing on sectors aligned with the new generation of Horizon Europe calls. The ESEIA Promoters leveraged project and proposal work and training activities to actively approach potential new members, supported by the Membership Acquisition Package created by the ESEIA Team. Additionally, ESEIA focused on enhancing the membership experience for its members by promoting internal workshops to tailor the benefits it offers and define their roles in the coming years.

Membership Engagement in 2021-2023

In 2021-2023, we have seen an increase in ESEIA membership engagement, with all member organisations participating and contributing to ESEIA's various activities.

Project Acquisition	RE4Industry Knowledge Transfer Seminars	ESEIA Lecture Series (1st - 8th Lectures)
131 experts (36% women and 64% men) from 18 member organisations were involved in 23 proposals submitted in 2021-2023, out of which three secured funding: WEFE4MED (2022-25), EMERGE (2024-26), INITIATE (2024-27).	78 experts (32% women and 68% men) from 10 member organisations participated in four RE4Industry Knowledge Transfer Seminars in AT, FI, HR, and RO in 2022 and 2023.	147 experts (28% women and 72% men) from 15 member organisations participated in eight ESEIA free hybrid lectures in 2022 and 2023.

ESEIA Membership Benefits

ESEIA members benefit from a wide range of services, including long-term partnerships, active collaboration and information sharing, coordination and support for large-scale proposals and projects, and tools for dissemination and exploitation of research results. Please visit www.eseia.eu/membership to consult the complete list of ESEIA services for members.

ESEIA in the World

The energy transition is a global endeavour that requires collaborative efforts and international cooperation. In 2023, ESEIA not only leveraged international events to engage with diverse stakeholders and build bridges across borders but also forged new partnerships to accelerate the energy transition, particularly in Africa, where it plays a vital role.



EMERGE Kick-off Meeting in Zagreb, HR © UNIZAG FSB

EMERGE Project

ESEIA is one of the partners involved in the newly EU-funded project EMERGE, focused on sustainable development in Africa. Coordinated by UNIZAG FSB, the project started in December 2023 and will last 36 months. This project is an example of ESEIA's efforts to build upon existing partnerships and create synergies at a global level.

EMERGE – Energy System Modelling for Green Development of Africa – is a 36-month project funded under the Horizon Europe programme for research and innovation, which aims to empower key stakeholders with the tools and knowledge they need to increase clean energy production and sustainable resource utilisation while bridging cultural and socioeconomic gaps. The kick-off meeting, hosted by the coordinator **UNIZAG FSB**, took place 13 and 14 December 2023 in Zagreb, HR, and represented a valuable opportunity for members of **11 partner organisations from 9 countries across Europe and Africa** to meet in person and take the first steps towards a successful implementation of the project.



6th China Forum in Graz, AT © Confucius Institute Graz

China Forum

ESEIA's engagement in events such as the 6th China Forum offered a platform for exchange and global outreach. Under the title *Belt & Road: Europe meets China*, the forum took place 17 November 2023 in Graz, AT. The ESEIA Director Brigitte Hasewend delivered a presentation on the *Role of European Networks in Achieving Climate Neutrality* at the event.

Brussels Links

As part of its commitment to advancing R&I in the EU, ESEIA focused on strengthening existing partnerships, such as collaboration with sister organisation EPNOE, and continued to explore opportunities to access new resources, expertise, and networks. For ESEIA, two of the most relevant European Partnerships are the European Partnership for Circular Bio-Based Europe and the European Partnership for Clean Energy Transition.



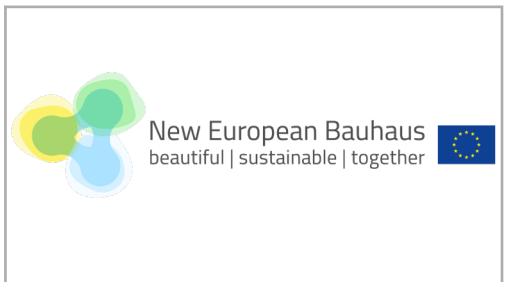
EPNOE Research Roadmap 2040 Launch Event in Leuven, BE © EPNOE

ESEIA - EPNOE

ESEIA and EPNOE share a common interest in R&I and E&T on sustainable energy materials, having engaged in joint project proposals and numerous events throughout the year. On 31 January 2023, the ESEIA Director Brigitte Hasewend took part in the EPNOE Research Roadmap 2040 launch event at KU Leuven, BE, integrating a round-table discussion on circular bioeconomy in Europe.

ESEIA - EPA Network

On 20 March 2023, ESEIA Director Brigitte Hasewend introduced ESEIA to the EPA Network Interest Group on Sustainability Research, an informal grouping of the directors of environmental protection agencies (EPAs) and similar bodies. During the stakeholder meeting, she offered insight into ESEIA and how it operates to promote sustainable energy solutions for a climate-neutral future.



ESEIA - New European Bauhaus

The New European Bauhaus initiative aims to bring the European Green Deal closer to citizens and organisations. Soon after becoming an official partner, ESEIA promoted a free hybrid lecture dedicated to the topic - *New European Bauhaus for Climate Neutral Cities: Novel ways of engaging with urban and natural heritage* - and looks forward to further supporting the initiative.

ESEIA General Assembly

The GA is the highest decision-making body and consists of one representative from each member organisation. The GA votes on decisions proposed by the Governing Council twice a year.

ESEIA Governing Council



Harald Kainz
TU Graz, AT
President

Teresa Ponce de Leão
LNEG, PT
Record Keeper

Brian Norton
TU Dublin, IERC, IE
Treasurer

Josef Furlinger
RIC GmbH, AT
Vice-President

Spomenka Kobe
JSI, SL
Vice-President

Costas Papanicolas
CYI, CY
Vice-President

Monika Lichtinghagen-Wirths
BAV, DE
Vice-President

Markku Huhtinen
Savonia UAS, FI
Vice-President

Brigitte Hasewend
ESEIA, AT
Director

ESEIA Business Meetings

In 2023, the ESEIA Business Meetings were held in a hybrid format, allowing in-person or virtual participation. The 28th GA meeting took place in Braşov, RO, 15 March. The 29th GA meeting was held in Brussels, BE, 14 November. During the spring meeting, the GA adopted the Audited Accounts and the Annual Report 2022 and approved an associate membership fee at 50% of the full annual membership fee for outside European members. During the autumn meeting, the GA adopted the Work Programme and Budget 2024 and discussed a New_ESEIA_34 project designed to prepare the organisation for future success in FP10.

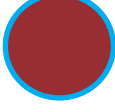
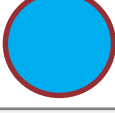
ESEIA Accounts

In 2023, the total ESEIA revenue was € 145,000 of which 92,000 from membership fees, 53,000 from project income for RE4Industry, the ESEIA lecture series, and the Director’s contribution to EC project evaluation. Total expenditure was 200,500 of which 150,500 for personnel, € 14,000 for travel cost, and € 36,000 for other cost. In total the ESEIA expenditure was higher than the income, which equals a negative net result of € 38,533 compared to 2022 as shown in the table on the right. However, with the new projects EMERGE and INITIATE just started, the ESEIA P&L will turn positive again in the coming years.

Revenues and P&L 2022-23

Year	Membership Fees	RE4Industry	EC Evaluation	Result
2022	150,500	53,000	92,000	28,488 €
2023	150,500	53,000	92,000	-38,533 €

Looking to 2024

Working Groups		Call/Topic	Action	Mil €
WG 1		HORIZON-CL5-2024-D3-01-10: Next generation of renewable energy technologies.	RIA	3
		HORIZON-WIDERA-2023-ACCESS-02-01: Twinning Bottom-Up.	CSA	1.5
		HORIZON-CL5-2024-D3-02-03: Development of smart concepts of integrated energy driven bio-refineries for co-production of advanced biofuels, bio-chemicals and biomaterials.	RIA	3.5
		HORIZON-CL6-2024-CircBio-01-9: Circular bioeconomy start-up villages. <i>In cooperation with the WG4 and WG5.</i>	CSA	0.8
WG 2		HORIZON-CL2-2024-HERITAGE-01-01: New European Bauhaus.	IA	5
		HORIZON-WIDERA-2023-ACCESS-07-01: Excellence Hubs	CSA	6
		HORIZON-CL5-2024-D6-01-08: Improved transport infrastructure performance.	IA	5
WG 3		HORIZON-CL4-2024-RESILIENCE-01-35: Biodegradable polymers for sustainable packaging materials (IA).	IA	8
		HORIZON-CL5-2024-D2-02-02: Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership).	RIA	5
WG 4		HORIZON-CL2-2024-DEMOCRACY-01-02: Multilevel governance in times of digital and climate transitions. <i>In cooperation with the WG2.</i>	IA	3
WG 5		HORIZON-INFRA-2024-DEV-01-02: Strengthen the bilateral cooperation on research infrastructures with Africa. <i>In cooperation with the WG2.</i>	CSA	1.5
5 Working Groups		11 Opportunities	Mil €	42.3

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Responsible for content:

ESEIA Director & ESEIA Communications
Manager, 2023

Printing and record error reserve



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