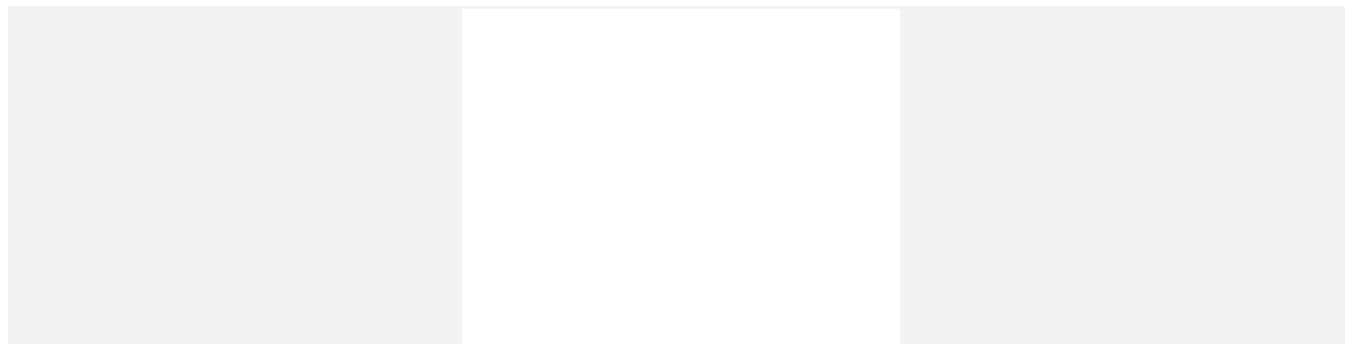
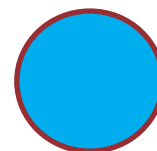
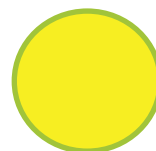
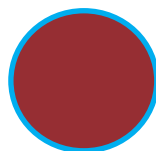
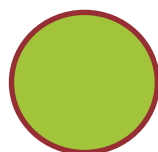
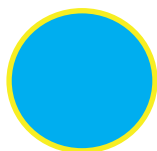


Annual Report 2021





Harald Kainz
President of ESEIA

‘My field is **Urban Water Management and Landscape Water Engineering**. I am committed to collaboration between higher education, research, business, public service, and society. If we all work together internationally we can reach climate neutrality. ESEIA is a great place to start such a fruitful collaboration.’

Message from the President of ESEIA

ESEIA addresses **climate neutrality from a systemic perspective**. Therefore we are not only concerned with renewable energy technologies but also with their contextualization in our societies in the EU and in other parts of the world. The role of ESEIA as an **actively engaging international cross-sector alliance** is more needed than ever. How can organisations contribute?

Using the tool ClimCalc, founding member **TU Graz developed a Roadmap to become climate-neutral by 2030**. TU Graz committed as much as € 11 Mio. to set up a whole range of measures. We will be using electricity from certified sources and regional renewables, reducing our carbon footprint for heating and cooling, incentivizing international staff mobility by train, improving the energy efficiency of IT infrastructure and materials, providing sustainable food from regional suppliers for staff and students, and making our buildings more sustainable by reducing grey energy and producing our own.

ESEIA offers the platform to discuss **best practice cases** that other organisations will follow on a European scale. ESEIA participates in the HEU RE4Industry project which provides **solutions for how energy intensive industry can benefit from 100% renewables in future**.

Our member organisations have been growing together more and more over the years, jointly defining **research and innovation as well as education and training projects**. This does not just happen. It is a continuous process that requires a shared vision, the care, and the enthusiasm of all actors involved.

To make this **integrated multiple actor cooperation** successful, ESEIA funds a highly professional international Coordination Team who employ powerful tools like the **new ESEIA Website** and **MY ESEIA area** that were created this year.

ESEIA has a great value proposition to make to her members and partners. Thank you for being part of this undertaking.

Graz, December 2021

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Introduction by the Director of ESEIA

In July 2021 the EC launched the first tranche of its ambitious Fit for 55 measures that will support Europe's climate policy framework and put the EU on track for a 55% reduction in carbon emissions below 1990 levels by 2030, and net-zero emissions by 2050. A key component is the significant increase of the share of renewables and lower energy use. Sub-targets were set for transport, heat, buildings, and industry.

The success of the Green Deal will also depend on a number of innovation ecosystems with multiple players to take action. ESEIA assembles these actors in an actively engaging European alliance which contributes innovation in research, education and training, governance, and new business models for a climate neutral energy system.

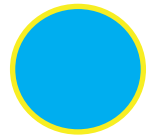


Brigitte Hasewend
ESEIA Director

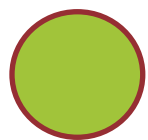
‘Five ESEIA Working Groups are the key drivers of the association, an engine that was well lubricated this past year. I am proud of the results.’

Thank you to all Working Group members and the ESEIA Team members namely Hana Lee, Project Manager, Marleen Moor, Communication Assistant, Christina Tansek, Office Manager, Richard Wheeler, Chief Acquisition Advisor, who have done such a wonderful job.’

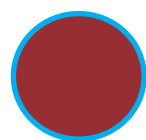
ESEIA Approach



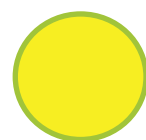
Bioresources,
Biobased Economy and
Bioresource Utilization



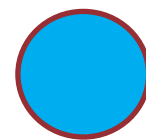
Energy Transition
in Urban Regions



Smart Energy
Materials



Governance,
Business Models
and Legal
Frameworks



Education and Training

The five ESEIA Working Groups (WGs) are the key drivers of the Association. The Working Groups include approximately 300 experts across the ESEIA Membership. They cover many important fields of the sustainable energy system. They engage in horizontal activities when it comes to education and training or the dissemination and exploitation of knowledge.

Since the beginning of the corona pandemic ESEIA held all meetings online with even more participation of members than ever before.

In 2021 ESEIA organised 70 online meetings with 112 experts from 24 member organisations. In total they spent 6 PM working together online.

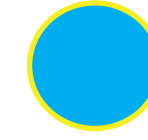
Our Zoom heroes 2021 were:

1. Markku Huhtinen, Savonia UAS, FI
2. Michael Bongards, TH Cologne, DE
3. Luis Duarte, LNEG, PT
4. Goran Krajačić, UZagreb, HR
5. Fabio Montagnino, CYI, CY



ESEIA - EPNOE Workshop © 2021 EPNOE

ESEIA Working Groups



WG 1 Biorefineries, Biobased Economy and Bioresource Utilization

The ESEIA WG Coordinator and his Team have created an **overview of Horizon Europe call opportunities** relating to bioresource utilization, bio-based products, biofuels, and circular bioeconomy.

The WG submitted two Green Deal proposals in 2021:



ARENA (Achieving 100% Renewable Energy Nexus in African Communities) focused on the development of modular solutions for addressing existing water-food-energy nexus challenges in African communities. The solutions would be explored through five demonstration sites in Egypt, Tanzania, Kenya, Nigeria, and Morocco.

The proposal got perfect scores in two criteria 'Excellence' and 'Impact' with a total score of 14,5 out of 15. The proposal was ranked 8th out of a total of more than 200 proposals but still was not selected for funding because of a lack of funds.

Coordinator: Fabio Montagnino, CYI, CY

WG 1 coordinated by Michael Bongards, TH Cologne, DE integrates three FGs namely Biorefineries and Biobased Industrial Products, Bioeconomy and Circular Economy, and Bioenergy use of Biobased Fuels and Biowastes.

This [mindmap](#) was used as an essential tool to select the most suitable opportunities for the 60 expert member strong Working Group.

Contact: Michael Bongards, TH Cologne, DE



The **SOS** (Source-to-impact open solutions framework for the reduction of persistent and mobile chemicals) proposal addressed the aspect of accurately assigning persistent and mobile chemicals (PMCs) impacts to sources through a combination of advanced information science (geospatial high-resolution modelling, big data and machine learning tools) and the use of new types of sensors customised for the purpose of PMC detection in on-site environments, strategically placed to disambiguate impacts from possible sources.

SOS was marked with a total score of 12 out of 15, but could not be funded.

Coordinator: Kristina Zagar, JSI, SI

ESEIA Working Groups



WG 2 Energy Transition in Urban Regions

WG 2 coordinated by Goran Krajačić, Uni Zagreb – 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.



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

Aim: 100% Renewable Energies for Energy Intensive Industries (EII)

Duration: 2020 - 2023

ESEIA Role: advisory role, knowledge transfer seminar, EU dissemination, EU advocacy

The RE4Industry expert groups are sector oriented expert groups focusing on different aspects, such as EII needs, renewable regulations and societal challenges. ESEIA Vice-President Josef Furlinger, formerly RIC GmbH, AT was nominated for the RE4Industry Expert Group Society.

WG 2 submitted two proposals in 2021:



The aim of the **Market-Link** proposal sets out to tackle mayor challenges in urban areas locally on farmer's markets with the idea to fast-track transformation in Urban Europe. The project intended to study different types of urban markets and squares as flashpoints for urban innovation and transition.

With a total score of 11,16 out of 15 the proposal was not selected for funding.

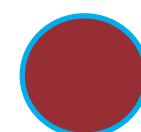
Coordinator: Goran Krajačić, Uni Zagreb – FSB, HR



Through the Twinning Western Balkan proposal **DigiGreen** FMEN, UNIš worked towards building capacities and becoming a regional leader regarding green energy, emphasising innovation in waste-to-energy, through knowledge transfer and best practice exchanges. The establishment of a Green Energy Network for the WBC should enable sustainability of the project results.

The proposal could not be funded given the budgetary resources available for the call.

Coordinator: Gordana Stefanovic, UNIš, FMEN, RS



WG 3 Smart Energy Materials

WG 3 coordinated by Tina Zužek, JSI, SI addresses the synthesis, processing and application of smart energy materials to be used for improving the energy efficiency of renewable energy systems. Three dimensions of this WG include materials for energy harvesting systems, energy storage and energy usage such as mobility.

ESEIA is responsible for organising four RE4Industry Knowledge Transfer Seminars to transfer success cases gathered in the RE4Industry project to industries in Austria, Croatia, Finland, and Romania by the members of the ESEIA network.

In September 2021 the ESEIA Team started the first round of planning discussions for the organisation of the Knowledge Transfer Seminars and published the [Draft Rationale for the ESEIA Knowledge Transfer Seminars](#).

In 2022 two seminars will be held in Finland, organised by Markku Huhtinen, UAS Savonia, FI and in Austria. Two seminars will take place in Romania, organised by Anca Duta, UTBv, RO and in Croatia, coordinated by Goran Krajačić, UZagreb, HR in 2023.

The seminars will focus on the identification of industrial energy needs, the definition of current long-term decarbonisation vision, and should give an overview of possible renewable energy solutions.

Contact: Josef Furlinger, formerly RIC GmbH, AT

Mapping of Members' Interests

The ESEIA WG 3 performed a [mapping exercise](#) of members' interests to select potential opportunities and build teams to prepare new proposals. The WG studied a range of materials including nano-cellulose based biomaterials, multi-material polymers, bioresins, photocatalysts, rare earths, and permanent magnets.

15 experts from 13 organisations expressed their interests for a number of application areas including in renewable energy provision from solar, wind and hydrogen, storage systems, heating and cooling systems, fuel production systems, inter- and multimodal transport.

Contact: Tina Zužek, JSI, SI

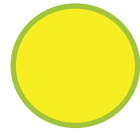
ESEIA - EPNOE Workshop

The ESEIA – EPNOE Workshop '**Smart materials in Energy Applications**' took place 29 June 2021. 40 participants from 15 EU countries and other countries, i.e Brazil, Russia, UK, and the USA attended this high-level expert event.

The workshop focused on the identification of sustainable energy materials topics, related HEU opportunities and the distillation of topics for a joint [EPNOE - ESEIA International Summer School 2022](#) on 'Sustainable Materials for Renewable Energy Applications'.

Contact: Brian Norton, TU Dublin, IERC, IE

ESEIA Working Groups



WG 4 Governance, Business Models and Legal Frameworks

Founded only in the spring of 2021, the WG 4 Coordinator defined both specific [mission and R&I fields and E&T realm of activities](#).

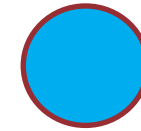
The general mission is to contribute to a better understanding of governance, business and legal framework issues. The WG looks at this from a sustainable energy perspective with the aim to achieving sustainable, resilient and inclusive societies with high quality of life and well-being.

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

The WG focuses on issues with a specific geographical locus, a specific community focus, a specific sectoral nexus focus, a specific technical, digital, and regulatory governance focus.

As a result, the WG has engaged in designing an International Summer School on Energy Communities and Sustainable Urbanism highlighting the integrative challenges they are facing and possible ways to address them.

Coordinator: Michiel Heldeweg, UTwente, NL



WG 5 Education and Training

ESEIA International Summer School 2021

This year's ESEIA ISS with the topic 'Sustainable Solutions for Circular Bio-based World' took place from 27 September – 8 October. More than 38 students from Chile, Finland, Germany, India, Italy and Nigeria took part in the ISS.

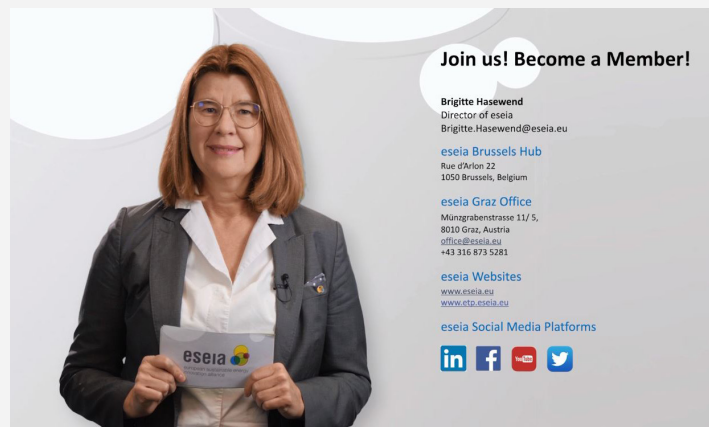
The topic was approached not only from a European perspective but considered also the views from South America and Africa.

The WG 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.

The students received a comprehensive overview of sustainable forest economy, responsible and smart use of natural resources, opportunities and benefits from forest bioeconomy and future aspects to forest bioeconomy.

Contact: Markku Huhtinen, UAS, Savonia, FI

ESEIA at Finnish Super Week



ESEIA Director at Finnish Super Week © 2021 ESEIA

The Finnish Super Week hosted by Savonia UAS took place 8 – 12 November 2021 with more than 300 participants from 10 countries. The North Savo Energy Cluster and international cooperations were presented, followed by a panel discussion related to climate change.

ESEIA Director, Brigitte Hasewend, introduced ESEIA and how the alliance helps delivering the Green Deal and its 'Fit for 55' targets by contributing research, education and training for sustainable energy systems.

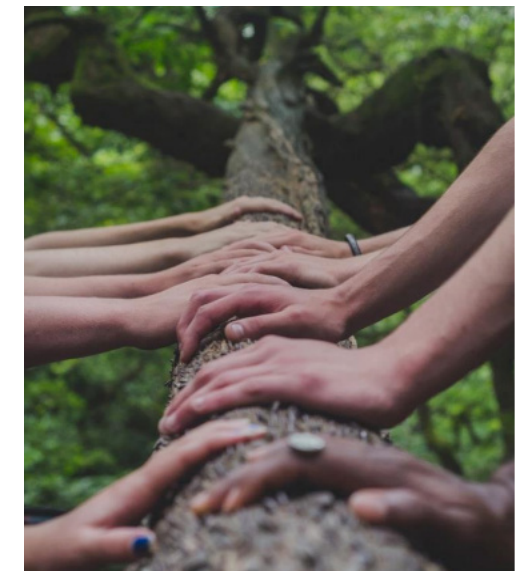
Contact: Markku Huhtinen, UAS, Savonia, FI



WG 5 submitted the **Green SEED** proposal which contributed to the green transition envisioned by the European Green Deal and other initiatives by fostering the acquisition of sustainability knowledge, skills, behaviours, and competences among the European civic society at large with a focus on students and the workforce. The creation of a European Competence Framework (ECF) on Education for Sustainable Development (ESD) was part of the proposal.

Although Green Seed was marked well above threshold, the proposal was rejected for reasons of lack of funding.

Coordinator: Anca Duta, UTBv, RO



ISS Brochure © 2021 Savonia UAS

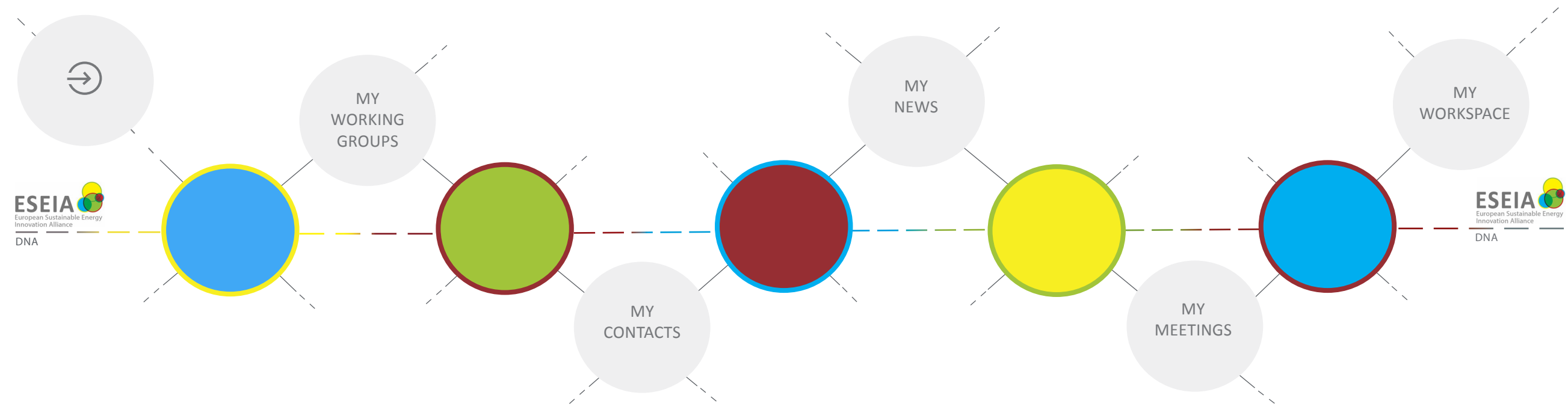
MY ESEIA

In the MY ESEIA area you have **access to your profile**, your role and access rights. You can upload your own photograph and update your CV and competence matrix. You will be able to view customized information about your ESEIA projects.

Engage with your ESEIA Working Groups in joint proposal and project work. Learn about the aims, thematic priorities, topics, and terms of reference of the five ESEIA Working Groups and seven Focus Groups, and meet their Coordinators.

Entertain yourself reading selected news about trends in your field and get ideas from your colleagues. Click on the News tool and immerge in news about ESEIA Members, ESEIA projects, European Policy News, and upcoming ESEIA Events.

Access your data easily in your ESEIA Workspace which is a collaborative tool for data management. It includes all the dropbox folders you need. You can read and edit documents, as well as upload your own.



You will also have **five complementary tools** at your disposal: 1. Working Groups, 2. Contacts, 3. News, 4. Meetings, and 5. Workspace. Read more about these new tools and how you can engage with and benefit from ESEIA in the following paragraphs.

Share your record in your Contacts and search for complementary competences using the powerful search engine linked to the ESEIA Experts Database. This tool will simplify cooperation and get you close to the ESEIA Community in the EU and beyond.

Innovate by meeting your colleagues easily using the personalized ESEIA Meetings tool. Access online meetings set up by the ESEIA Team for your convenience seamlessly from your ESEIA calendar entry or export into your own calendar.

Benefit from the ESEIA Services by registering for at least one ESEIA Working Group here. Once you have been admitted you will have access to MY ESEIA.
Contact: Christina Tansek, ESEIA, AT



About us

ESEIA is excited to present her **new fully integrated website** which puts ESEIA at your fingertips. The new website is **user-friendly and combines informative content and modern design.**

New Logo

The **ESEIA logo** is now **in Capitals** to reflect that the organisation has grown up. The new design of the website benefits from the ESEIA colors which are for orientation.

Content

The website contains useful information About ESEIA, Membership, Expertise, the unique ESEIA Education and Training Programme, and ESEIA Communication activities.

MY ESEIA

Members will also benefit from the **new collaborative space MY ESEIA** which is accessible anytime anywhere on all devices (ref. pages 10 - 11).

Here is where you read about **our aims and our services.** You find out more about the ESEIA strategy and record of past achievements, the organisational structure, and the ESEIA Team.

Strategy and Record

If you wish to get informed about the ESEIA Strategy 2030 and our 10 years Success Story 2009 - 2019, access this part of the ESEIA website.

Organisational structure

This section contains a description of our organisational structure including the General Assembly, Governing Council, and ESEIA Working Groups, Coordinators and Focus Group Leaders.

ESEIA Team

Please click here if you want to find out more about the international multi-disciplinary ESEIA Coordination Team Members and their profiles.

Membership

In the ESEIA membership section, you will find detailed information about membership benefits and how to become a member. This part of the website also contains a listing of all members.

Membership Benefits

Please refer to this section if you wish to know more about ESEIA services and how members can benefit from the specialised ESEIA Service Portfolio.

Member Organisations

Members are the backbone of ESEIA. Click here for short descriptions of ESEIA member organisations in alphabetical order. To find out more, simply click on the members' logos.

Partner Organisations

This section contains detailed information about our many partner organisations in the world. In each case we have indicated the title of the project or proposal in which we have cooperated.

Expertise

In order to obtain detailed information about the thematic competence profile of ESEIA, please click here. You will find an overall assessment of the strengths of our member organisations.

Working Groups

ESEIA funds five Working Groups and seven Focus Groups. In this section you will find a description of their aims, their thematic priorities, and terms of reference.

Experts Database

The ESEIA Experts Database is an elaborate search tool for more than 300 experts forming the ESEIA Working Groups. You can search by competence field, name, organisation, sector, and country.

Projects

You will find extensive information about current ESEIA projects, if you click in this section. Additionally, an overview of our previous EU funded projects is available in this section of the website.

Education and Training

The formerly separate Education and Training Website forms an integral part of the new website. In this section you discover our training courses and collaborative learning formats.

Running Courses

This section contains information about ongoing ESEIA Education and Training courses. To register for one specific course, simply click on the link indicated.

Past Courses

ESEIA is proud of the successful history of her Education and Training Programme. ESEIA organised 33 past ESEIA Education and Training events from 2013-21 with a total of 800 participants.

Best Lecture Library

The ESEIA Best Lecture Library is a collection of top lectures on sustainable energy systems. It combines five areas of crucial relevance to the challenge of climate-neutrality.

Communication

In this section you will find an overview of ESEIA Social Media channels and other main ESEIA communication tools, namely News Articles, Newsletters, and Annual Reports.

News

In our news section you will read latest news articles from ESEIA and ESEIA Members. In MY ESEIA you can upload your news to be disseminated on our channels.

Newsletter

The ESEIA Newsletters are published four times a year. They provide ESEIA News, Member News, information about ESEIA projects, EU Policy News, and an overview of upcoming events.

Annual Reports

You will also appreciate the **Annual Report Gallery** which has all the Annual Reports since her foundation. This section contains a total of 12 Annual Reports 2010-2021.

ESEIA Members and their Benefits

ESEIA Members

In 2021, ESEIA had a total of **27 member organisations in 11 European countries**, representing 14 Higher Education Institutions (HEIs), 4 Research Organisations, and 9 Businesses of which one is a cluster.



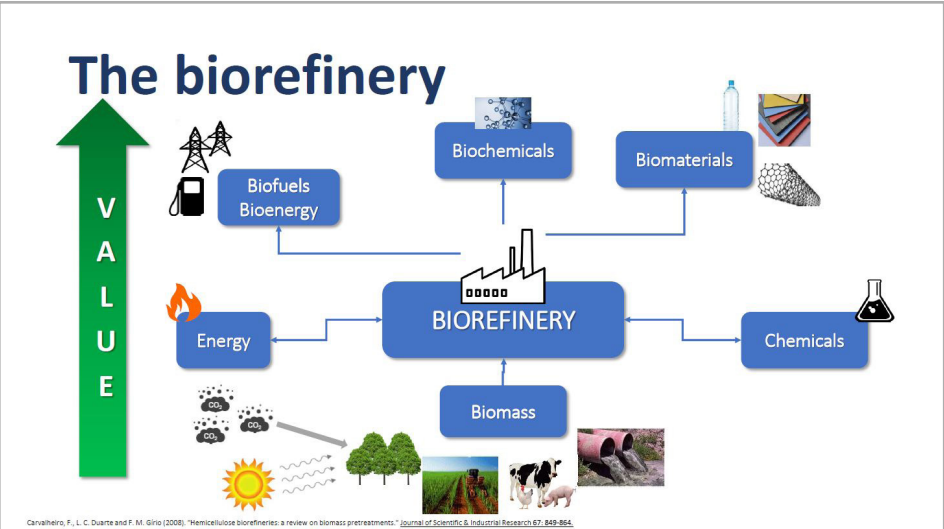
ESEIA Membership Benefits

<p>Joint ESEIA Work Programme</p> <p>ESEIA provides a yearly Work Programme where members join together in ESEIA Working Groups on a number of strategic projects and initiatives. These projects focus on the member’s expertise in renewable energy systems.</p>	<p>Long-Standing European Cross-Sector Partnership</p> <p>ESEIA is a long-standing membership alliance of European organisations working in the field of renewable energies. Long-term cooperation between members strengthens the ability for future collaboration and opportunities.</p>	<p>Information Sharing Among Members</p> <p>ESEIA provides members with a platform to share information on joint innovation projects through a variety of methods, including video conferences, regular business meetings, and interactive workshops at European Events.</p>	<p>Involvement in EC Policy-Making</p> <p>Through the close contact with the European Commission strengthened by the ESEIA desk in Brussels, ESEIA is involving her experts in policy-making, as well as EC project and programme evaluation.</p>	<p>Access News from the Grapevine</p> <p>ESEIA provides members with firsthand know-how and access to the latest news from the grapevine on EC funding opportunities of relevant call information, individual funding advice and access to EC experts.</p>	<p>Coordination of Large-Scale EC Proposals</p> <p>ESEIA is pleased to support the ESEIA Working Groups in the generation of proposals for funding by team building for proposal consortia, proposal management, provision of financial and work package models or proposal quality control.</p>	<p>In-Project support for EC Projects</p> <p>ESEIA provides project management expertise for running EC projects, including support during negotiation phase of the Consortium Agreement.</p>	<p>Dissemination and Exploitation of Project Results</p> <p>Building on her European outreach platform, ESEIA provides members with a number of dissemination and exploitation tools like ESEIA media channels, bi-annual conferences and exploitation of research results.</p>
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ESEIA held an online session 15 September focusing on 'Sustainable use of Bioresources' with more than 30 participants. The online session was held in the framework of the 9th World Sustainability Forum which took place from 13 to 15 September 2021.

Bioresources have a tremendous potential to contribute to the sustainable production of energy. Their role as carbon-sinks, especially when used as feedstock for the production of chemicals and materials remains largely untapped.



Presentation by Luis Duarte at the WSF © 2021 ESEIA

In fact, their sustainable use is a non-dismissible tool to achieve the desired carbon-neutrality in the short-term, and also for the future carbon-negative society. The ESEIA section stream discussed the most innovative developments that demonstrate these bioresources applications.

In Section 1, *Bioenergy production and utilization in the urban context* was presented by Michael Bongards, TH Cologne, DE. Markku Huhtinen, Savonia UAS, FI focused on *Improved Solid Biofuels for Africa. Potential Applications of Lignin* were presented by Marlene Kienberger, TU Graz, AT.

In Section 2, Fabio Maria Montagnino, CYI, CY gave an overview of *Bioresources as materials for energy applications*. Bozidar Šantek, UZagreb, HR discussed *Balancing of Bioresources and Energy Production*.

Furthermore, Luis Duarte, LNEG, PT addressed *Biomass fractionation: The search for an industrial process standard*. Lastly, Sandor Bartha, BIO-C-ECOIPAR LTD provided the state-of-the-art regarding *seaweed chemical and physical composition and currently used technologies for their disposal and valorisation*.

Contact: Luis Duarte, LNEG, PT

ESEIA Partnerships

ESEIA sees the European Partnerships in Climate, Energy and Mobility as well as in Bioeconomy and Natural Resources as perfect sparring partners for her activities in terms of reaching out to relevant industrial players and stakeholders.

News from the Grapevine

The ESEIA Director spent three weeks working in Brussels during September and October. During her time in Brussels she had the chance to receive inside news from a number of European organisations first hand.

Her visits included EU bodies, i.e the European Parliament, the European Commission, European Council, Energy Policies Unit, and the European Economic and Social Committee. She also visited the Clean Energy Transition Partnership and the Energy Efficiency Innovation Partnership. Finally the ESEIA Director hosted visits of ESEIA sister organisations, namely of EPNOE, SUNERGY, and EMIRI.

Contact: Brigitte Hasewend, ESEIA, AT

ESEIA - EPNOE

ESEIA and EPNOE share a common interest in R&I and E&T on sustainable energy materials. The two organisations decided to work together on one polysaccharides and sustainable energy related proposal and a joint International Summer School in 2022.

ESEIA – SUNERGY

ESEIA is discussing future collaboration with SUNERGY in E&T. SUNERGY aims at becoming a large European Research and Innovation initiative working towards the conversion and storage of renewable energy into fossil-free fuels and chemicals.

ESEIA – EMIRI

ESEIA is discussing cooperation with EMIRI. EMIRI is about to set up a focus group on electronic materials, electronic composites, application of electronic materials in smart energy systems, interfaces between electronic systems, digital systems.












The future is in your hands © 2021 ESEIA

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

Teresa Ponce de Leão
LNEG, PT

Brian Norton
TU Dublin, IERC, IE

Josef Furlinger
RIC GmbH, AT

Spomenka Kobe
JSI, SL

Costas Papanicolas
CYI, CY

Monika Lichtinghagen-Wirths
BAV, DE

Markku Huhtinen
Savonia UAS, FI

Brigitte Hasewend
ESEIA, AT

President

Record Keeper

Treasurer

Vice-President

Vice-President

Vice-President

Vice-President

Vice-President

Director

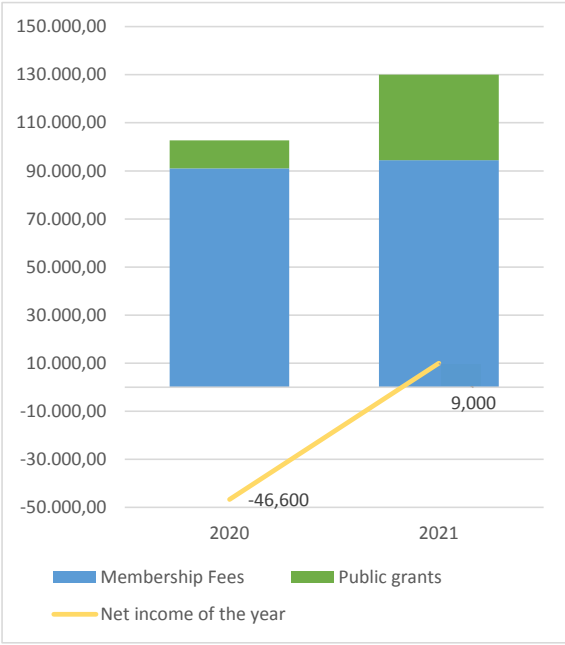
ESEIA Business Meetings



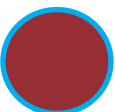


The ESEIA Business Meetings took place 13 April and 16 November 2021. In November the GA appointed outgoing **Vice-President Ion Visa, UTBv, RO Honorary Member of the Governing Council**. Additionally, the GA welcomed two new Governing Council Members **Monika Lichtinghagen-Wirths, BAV, DE** and **Markku Huhtinen, Savonia UAS FI**.

ESEIA Accounts

In 2021 the total ESEIA revenue was € 130,000 of which € 94,500 from membership fees and € 35,500 from project income for RE4Industry. Total expenditure was € 121,000 of which € 98,200 for personnel, € 1,500 for travel cost, and € 21,300 for other cost. In total the ESEIA expenditure was lower than the income, which equals a positive net result of € 9,000.

Revenues and P&L 2021



WGs		Call/Topic	Action	Mio €
WG 1		HORIZON-CL5-2021-D3-03-09: Carbon-Negative Sustainable Biofuel Production , resubmission of NEXTMET.	RIA	5
		HORIZON-CL5-2021-D3-03-02: Next generation of renewable energy technologies , address high-risk/high return technology developments for game changing renewable energy technologies.	RIA	3
		HORIZON-MSCA-2022-DN-01-01: Doctoral Networks , Fullfrac as a basis and BET as experience.	MSCA	0.5
WG 2		HORIZON-WIDERA-2022-ACCESS-04-01: Excellence Hubs , foster innovation ecosystems in Widening countries and beyond.	CSA	5
		HORIZON-CL-2022-HERITAGE-01-10: The New European Bauhaus - shaping a greener and fairer way of life in creative and inclusive societies through Architecture, Design and Arts.	RIA	3
		HORIZON-CL5-2022-D6-02-05: Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport.	RIA	5
WG 3		HORIZON-CL4-2022-RESILIENCE-01-19: Advanced materials modelling and characterization.	RIA	5
		HORIZON-CL4-2022-01-16: Buildings and renovating by exploiting advanced materials for energy and resources efficient management.	IA	7
WG 4		HORIZON-CL5-2021-D3-02-03: Market Uptake Measures of Renewable Energy Systems.	CSA	2
WG 5		HORIZON-MSCA-2021-SE-01: MSCA Staff Exchanges , Africa, ARENA as a basis.	MSCA	0.5
5 Working Groups		11 Opportunities	Mio €	45.5

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