

ESEIA



European Sustainable Energy
Innovation Alliance

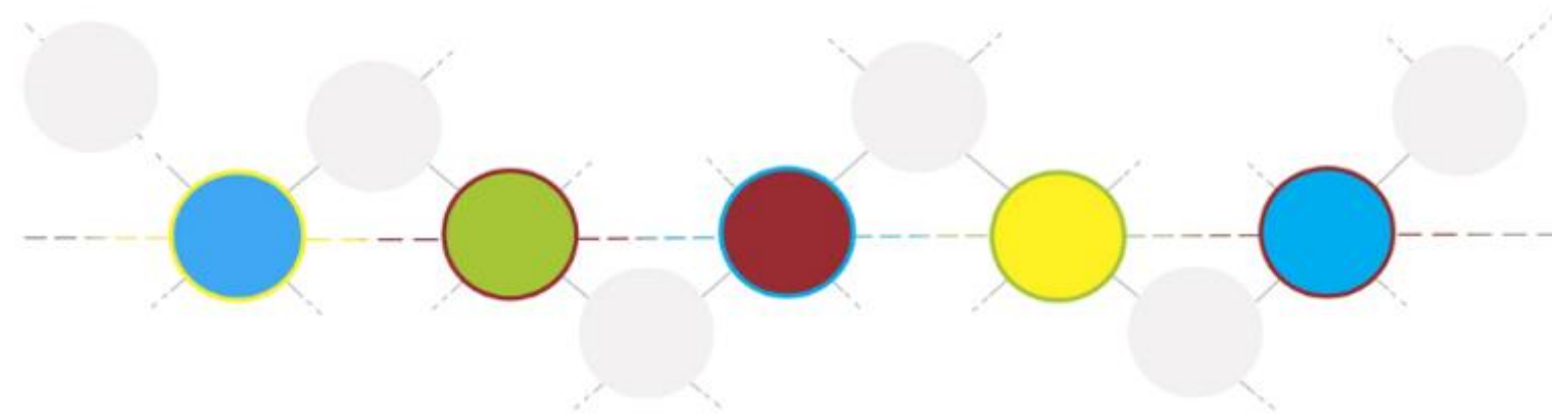
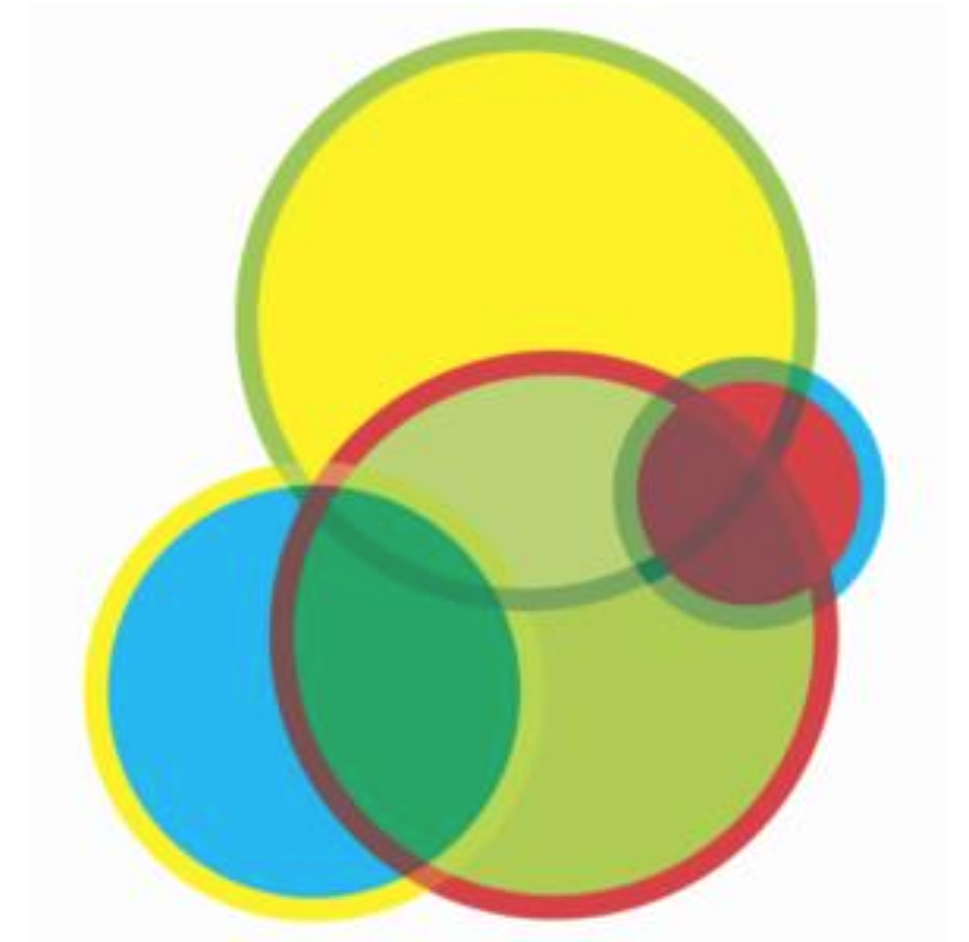


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1. Introduction: ESEIA in a Nutshell

ESEIA is a leading European non-profit association of research and innovation organizations in sustainable energy systems.



What is our Mission?

By 2050 ESEIA will have enabled Europe to reach its renewable energy targets as outlined in the Green Deal by contributing research for innovative solutions, as well as education and training for a climate-neutral sustainable energy system.



How do We Work?

The ESEIA Working Groups are the key drivers of the association. They are main forum for codesign and collaboration. The ESEIA WGs coordinate expertise from our members in a number of key innovation areas.



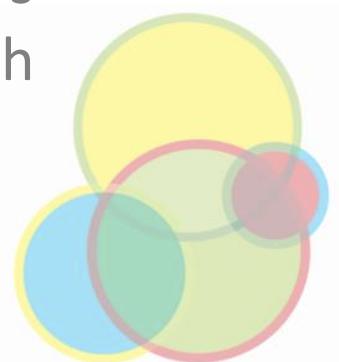
Which Strategic Challenges does ESEIA address?

ESEIA addresses three strategic challenges: ‘Setting the Agenda for renewables on the European market’, ‘Capacity Building both for people and institutions’ and ‘Forging International Partnerships’.



How does ESEIA engage?

ESEIA coordinates sustainable energy innovation projects, organizes expert panels, designs entrepreneurial education and training events, fosters international cooperation, and promotes dialogue with European citizens.



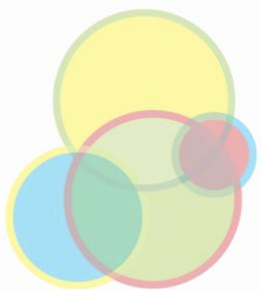
1. Introduction: ESEIA in a Nutshell

Member Organisations

Who do we represent?

The ESEIA umbrella represents the entire innovation ecosystem of actors from research, academia, industry, and government.

In 2024, ESEIA has 23 member organizations from 12 EU countries.



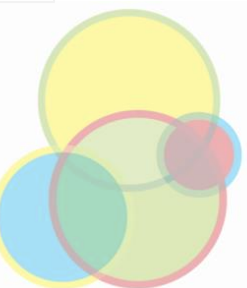
1. Introduction: ESEIA in a Nutshell

Member Organisations

ESEIA
European Sustainable Energy
Innovation Alliance

23 member organisations:

- 12 EU countries
- 13 higher education institutions
- 4 research organizations
- 6 businesses



1. Introduction: ESEIA in a Nutshell

ESEIA Governing Council: An Equal Partnership



Andrea Höglinger
Vice-President
TU Graz, AT



Markku Huhtinen
Vice-President
Savonia UAS, FI



Spomenka Kobe,
Vice-President
JSI, SI



Josef Furlinger
2nd Vice-President,
Treasurer, AT



Brian Norton
ESEIA President
TU Dublin, IE



Teresa Ponce de Leão,
1st Vice-President,
Record-Keeper, LNEG, PT



Costas Papanicolas,
Vice-President
CYI, CY



Monika Lichtinghagen-
Wirths, **Vice-President,**
BAV, DE



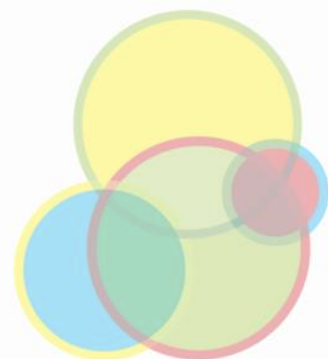
Goran Krajačić,
Vice-President,
UZagreb-FSB, HR



Brigitte Hasewend,
Director
ESEIA



According to the ESEIA Statutes Art. 12 the **Governing Council** prepares the decisions of the **General Assembly**, the supreme decision-making body. The GC exercises the main responsibility for the strategic management of ESEIA. The ESEIA GC is equally composed of **5 female and 5 male administrators**. The GC is presided by the ESEIA President and includes the ESEIA Record Keeper, the ESEIA Treasurer, Vice-Presidents, and the ESEIA Director.



2. Three Strategic Challenges

Which Strategic Challenges does ESEIA address?



Setting the Agenda for renewables in the European market



Capacity Building both for People and Institutions



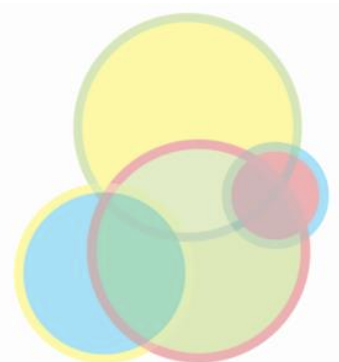
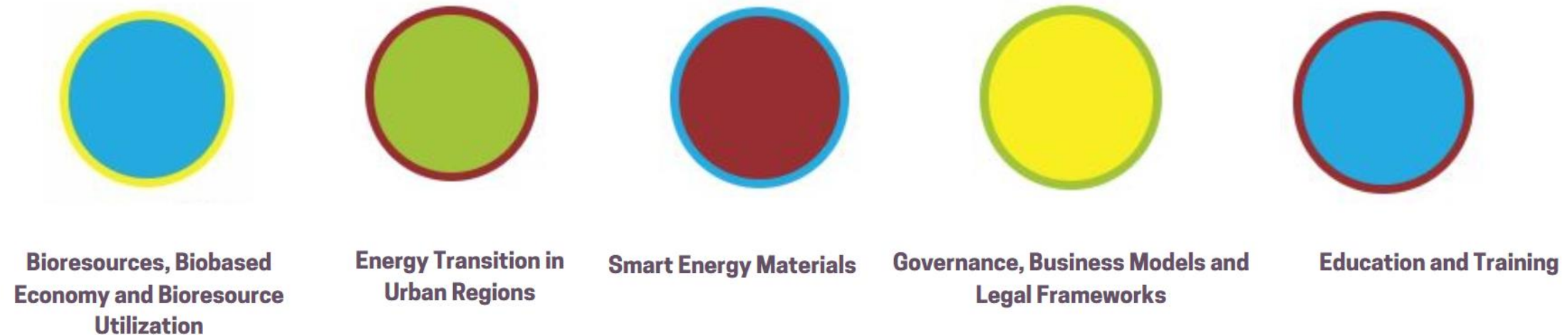
Forging International Partnerships

2.1. Setting Agenda for RES on the European Market

Agenda Setting: Five ESEIA Working Groups

The five ESEIA Working Groups include approximately **350 active experts from all sectors of renewable energy systems**. The ESEIA Working Groups are particularly equipped to **advise EC decision-makers on the key issues, existing knowledge gaps, and necessary implementation instruments**.

ESEIA WORKING GROUPS (WGs)



2.1. Setting Agenda for RES on the European Market

Three Thematic Working Groups



WG 1 Bioresources Utilization

The aim is to provide a framework for using bioresources efficiently, focusing on bioenergy systems innovation and the bioeconomy in the energy transition. This includes identifying bioenergy sources and improving technologies for efficient logistics and utilization.



WG Coordinator:
Michael Bongards, TH Cologne (DE)



WG 2 Energy Transition in Urban Regions

ESEIA focuses on energy transition in cities and surrounding areas, emphasizing not only innovative renewable technologies but also new integration methods. The WG includes four focus groups: Smart Mobility, Smart Grids, Energy Efficient Buildings, and ICT for Energy Transition.



WG Coordinator:
Goran Krajačić, UNIZAG (HR)



WG 3 Smart Energy Materials

As resources become increasingly scarce, the design and use of new energy materials must align with global sustainability goals. This Working Group focuses on the synthesis, processing, and application of smart energy materials to improve the energy efficiency of renewable energy systems.



WG Coordinator:
Tina Zuzek, JSI (SI)



WG 4 Governance, Business Models and Legal Frameworks

This WG focuses on the challenges that energy transition brings about in terms of radical shifts in governance, social and business models and related regulatory and legal regimes. To foster the transition, the functioning of multi-actor networks, multi-level relations and energy ecosystems needs to be improved.



WG Coordinator:
Michiel Heldeweg, Utwente (NL)



WG 5 Education and Training

The WG conceives and implements cooperative training courses under the ESEIA Education and Training Programme (ETP). These cooperative training formats benefit students, young scientists and professionals already active in the field by linking practice and educations.



WG Coordinator:
Fabio Montagnino, CYI (CY)

Two Horizontal Working Groups

2.1. Setting Agenda for RES on the European Market



**WG1 - Bioresources, Biobased Economy,
Bioresource Utilization**

Biorefineries and Biobased Industrial Products



Luis Duarte
LNEG



Wolfgang Bauer
TU Graz

Bioeconomy and Circular Economy



Michael Bongards
TH Cologne

**Bioenergy Use of Biobased
Fuels and Wastes**



Markku Huhtinen
Savonia UAS



**WG2 - Working Group Energy Transition
in Urban Regions
3 Active Focus Groups**

Smart Mobility



Mario Hirz
TU Graz

**Smart Energy
Efficient Buildings**

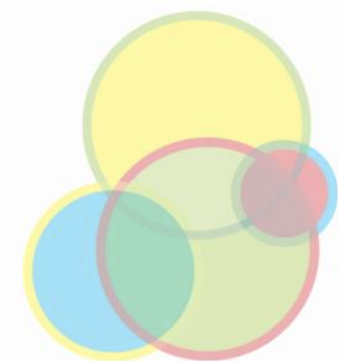


Gintaras Stauskis
VGTU

**Advanced Computing
for Energy Transition**



Gregor Papa
JSI



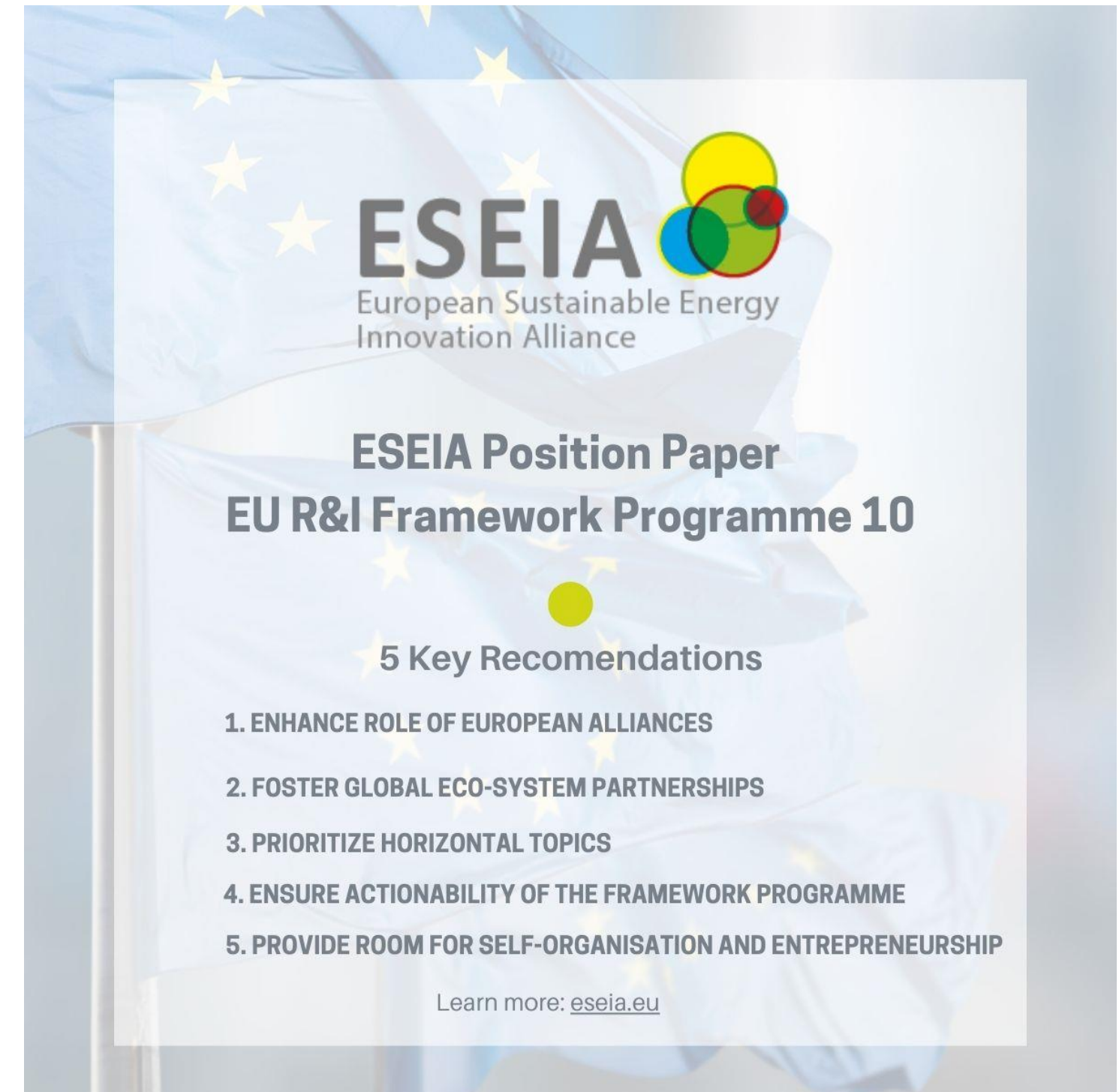
2.1. Setting Agenda for RES on the European Market

Agenda Setting: **FP10** Position Paper

ESEIA has recently published its [Position Paper](#) on the next EU Framework Programme for R&I (FP10), outlining key recommendations for the design of the successor of Horizon Europe, which will run from 2028 to 2034.

The Position Paper offers insight into the experiences of ESEIA members within the ongoing Horizon Europe, addresses future challenges, and provides recommendations on the design of FP10.

It results from an extensive survey conducted among ESEIA members from November 2023 to February 2024, internal discussions, and feedback from the ESEIA General Assembly in March 2024.



2.2. Capacity Building for People

ESEIA Education and Training Programme (ETP)

ESEIA is striving to become the **premier provider of practice-oriented education and training** in renewable energies. ETP has trained some **600 students and professionals** over the past 10 years.

The different professional education formats within the [ESEIA Education and Training Programme \(ETP\)](#) include:



ESEIA 5th international conference on "Towards Climate Neutral Energy Communities" on 2-3 Nov. 2022 at Nicosia, Cyprus

Postgraduate students

Interdisciplinary Student Camps (ISC)

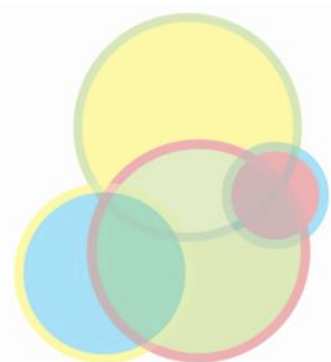
Postgraduate students and professionals

ESEIA International Summer Schools (ISS) Pilot Plant Courses (PPC)

Policymakers, experts, and professional

Professional Training Course (PTC);

Additionally, ESEIA regularly offers other knowledge transfer activities such as the ESEIA biannual International Conference, and two [European Master's programmes](#).



2.2. Capacity Building for People

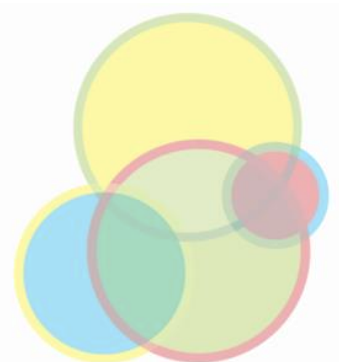
ESEIA Lecture Series

The ESEIA Lecture Series *Sustainable Energy Innovation Systems for Climate Neutrality* aims to provide a platform for perspectives exchange between different societal actors on what must be done to achieve climate neutrality by 2050.

The invited speakers for the lectures are experts in their fields, which makes this series organised in cooperation with the Graz University of Technology an excellent educational and networking platform for everyone interested in creating a climate-neutral future.



**ESEIA
LECTURE
SERIES**
SUSTAINABLE ENERGY INNOVATION
SYSTEMS FOR CLIMATE NEUTRALITY



2.2. Capacity Building for Industry



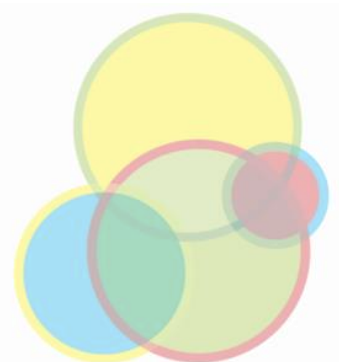
Austria | 21 October 2022

The first [RE4Industry](#) Knowledge Transfer Seminar took place on 21 October 2022 at the Graz University of Technology in Graz, Austria.

100 participants gathered onsite and online to review climate targets, explore solution packages, and discuss the push and pull factors of the energy transition.

The seminar was organized in cooperation with the Federation of Austrian Industries of Styria and Carinthia.

[Find out the key takeaways!](#)



2.2. Capacity-Building for Higher Education Institutions

AIM

Supporting European R&I Through
Stakeholder Collaboration and
Institutional Reform

FUNDING

This project has received funding from
the European Union's Horizon Europe
Research and Innovation Programme,
under Grant Agreement n° 101136775

DURATION

42 months (starting from February 2024)

BUDGET

€4.5M

COORDINATOR

UNIZAG FSB, HR

PARTNERS

ESEIA (AT), CYI (CY), JSI (SI),
NURE(UA), BrainIT (HR), B1 (HR),
UMP (MA), VINCA (RS), UKIM (MK),
EPBiH (BA), ISCTE (PT), LPNU (UA),
UTBV (RO)

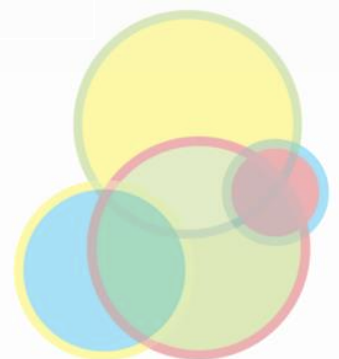
ESEIA'S ROLE

ESEIA network of Universities will be
key resource for knowledge sharing,
networking and synergy with other
Alliances

 INITIATE



Funded by
the European Union



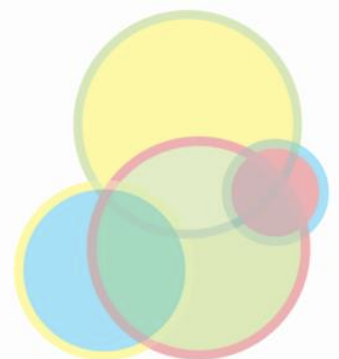


2.3. Forging International Partnerships

International cooperation is a driver of world-class research and innovation. The European Union's Strategy for international cooperation is set out in the [Global Approach to Research and Innovation](#) Communication. [Horizon Europe](#), the EU's framework program for research and innovation, is one of the main tools to implement this strategy.

ESEIA supports the EU approach to international partnerships. In general, the ESEIA Education and training events are open to participants from all over the world.

In 2024 ESEIA focuses on the African Union with the Horizon-funded [EMERGE](#) for Energy System Modelling.



2.3. Forging International Partnerships

AIM

Energy System Modelling for Green Development of Africa

FUNDING

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme, under Grant Agreement n° 101118278

DURATION

36 months (1 December 2023 – 30 November 2026)

BUDGET

€2.5M

COORDINATOR

UNIZAG FSB, HR

PARTNERS

ESEIA (AT), EnGreen (IT), CARTIF foundation (ES), CIRCE foundation (ES), Artelys (FR), ECREE-ECOWAS (CP), Universite Mohammed Premier 1 (MA), Universidade Eduardo Mondlane (MZ), AfriLabs (NI), BrainIT (HR)

ESEIA'S ROLE

In addition to reaching out to its network of Universities to further enhance AU-EU collaboration, ESEIA will lead the project's communication and dissemination activities



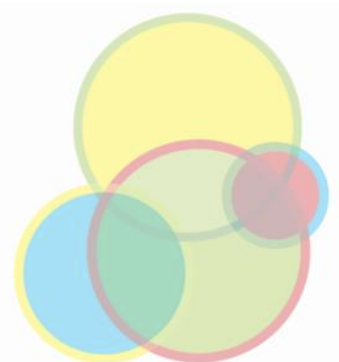
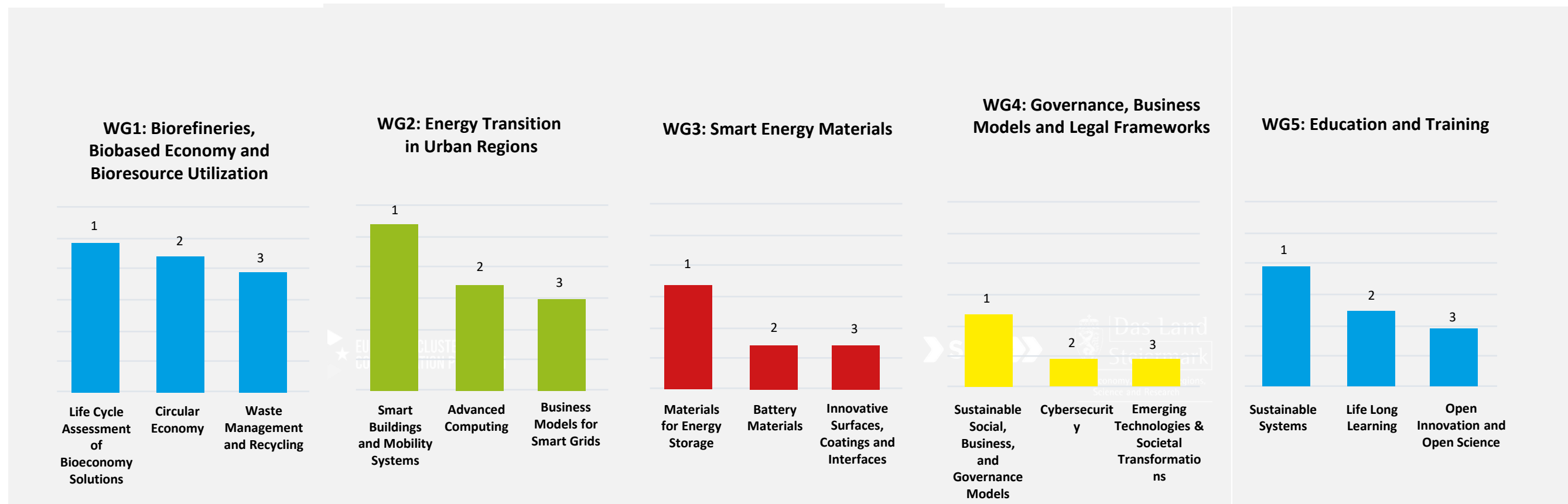
Funded by
the European Union



3. Expertise

FIELDS OF EXPERTISE

ESEIA Members can connect with experts on four thematic platforms of research and innovation: Energy Provision, Energy Policy and Integration, Energy Efficiency and Usage, and Energy Intelligence.



4. Upcoming Events

Education and Training Programme

ESEIA Upcoming Education and Training Programme

ESEIA International Summer School 2024

Host: Jarno Ruusunen, Savonia UAS, Finland

Date: 16-27 September 2024

Title: Net Zero Solutions for Climate Friendly Energy Production

Further information: office@eseia.eu

ESEIA 6th Conference 2024

Host: Jarno Ruusunen, Savonia, Finland

Topic: Net Zero and Beyond

Date: 4 December 2024

Further information: office@eseia.eu

SAVONIA

University of Applied Sciences

ESEIA International Summer School 2024

Net Zero Solutions for Climate
Friendly Energy Production

16.9-27.9.2024

Registration. 1.8-9.9.2024

6th ESEIA International Conference

Net zero and beyond

 4th December 2024

 Kuopio, Finland

www.eseia2024.fi



4. Upcoming Events

Circular Bioeconomy Start-Up Villages From Idea to Market

Guest lecture: Evelyn Reinmuth, UNI Hohenheim, DE

Response 1: Kristina Sermuksnyte-Alesiuniene, AgriFood Lithuania LT

Response 2: Annalisa Spalazzi, Regional Science and Economic Geography, GSSI

Chair: Fabio Montagnino, Cyprus Institute, CYI, CY

Host: Rector TU Graz

[REGISTER NOW](#)

24 October 2024 | 19:00-21:00 CET | Aula, TU GRAZ, Hybrid Event

www.eseia.eu



4. Upcoming Events: 15-Year Anniversary

Save the Date! ESEIA 15-Year Anniversary Celebration



ESEIA
European Sustainable Energy
Innovation Alliance

ESEIA 15-YEAR ANNIVERSARY

Join Us in Celebrating 15 Years of
Innovation, Growth, and Success!



Tuesday, 19 November 2024



17.00 – 21.00 CET



Brussels, Fondation Universitaire,
Rue d'Egmont 11, 1000 Brussels

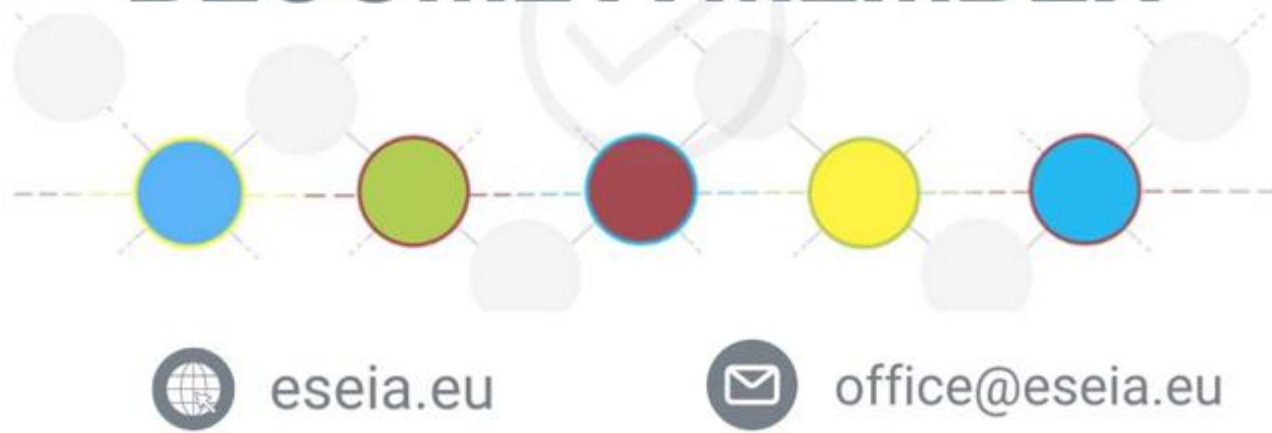


office@eseia.eu




5. How to get involved?

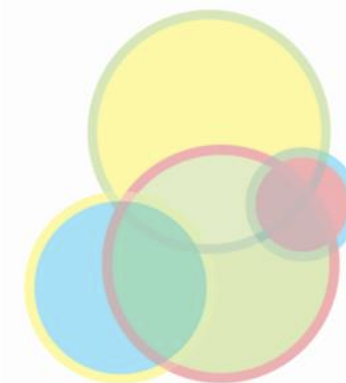
Join our activities and become an ESEIA Member!

BECOME A MEMBER



BENEFITS

-  Joint ESEIA Work Programme
-  European Cross-Sector Partnership
-  Share and gain knowledge
-  Involvement in EC Policy-Making
-  Access to EC Funding Opportunities





CONTACT US

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