

# ESEIA Lecture Series

## Sustainable Energy Innovation Systems for Climate Neutrality

The 7<sup>th</sup> Lecture

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

Date: 21 September 2023, 19:00 – 21:00 CET

Venue: Inffeldgasse 18, HS i1 (Hybrid)

#### Invitation

[European Sustainable Energy Innovation Alliance - ESEIA](#) cordially invites you to attend the **seventh** in a series of ESEIA international lectures entitled **Sustainable Energy Innovation Systems for Climate Neutrality**. The seminar is organised by ESEIA in cooperation with **TU Graz Forum Technology and Society**, the **Austrian Federation of Industries Styria** and **TU Austria**. The event is supported by the Styrian Government.

The seventh lecture, on **De-Fossilization of Industry and Mobility: How can it work?** will be delivered at **Inffeldgasse 18, HS i1, 21 Sept 2023, 19:00 – 21:00 CET**. The lecture is also accessible online.

Invited Lecture by: **Georg Brasseur** ([short CV below](#)), former President of the Division of Mathematics and the Natural Sciences of the Austrian Academy of Sciences

Response 1: **Walter Berger**, Managing Director, voestalpine Research Services Donawitz

Response 2: **Juergen Rechberger**, Vice-President, Hydrogen & Fuel Cell, AVL

Chair: **Gerhard Murer**, Forum Technology and Society, Anton Paar GmbH

Host: **Helmut Eichlseder**, TU Graz

*De-fossilising industries and mobility is crucial for achieving EU climate targets and ensuring the EU's industrial competitiveness and strategic autonomy, as well as human well-being. The lecture brings together university and industry representatives from different fields to share their viewpoints on how to de-fossilise society. We will review climate targets of the Green Deal, explore solution packages, and discuss the push and pull factors of energy transition by 2050, as well as results from the [EU funded RE4Industry](#). Our invited lecturer will lay out the topic, followed by two responses that focus on de-fossilising the steel sector and making the mobility sector 100 % renewable. The presentations will be followed by a panel discussion and an open exchange with the audience on site and online.*

**Join us for this exceptional lecture!** We invite you to [register](#) for onsite or online participation **before 19 September**. More information about ESEIA Lecture Series is available at [ESEIA Lecture Series Web page](#). If you have any question, please contact ESEIA Team: [office@eseia.eu](mailto:office@eseia.eu)

Brigitte Hasewend,  
ESEIA Director

Harald Kainz  
Rector TU Graz and ESEIA President



**Georg Brasseur**, Prof. emeritus, has been a professor of measurement technology at the TU Graz since 1999. He was **President of the Division of Mathematics and the Natural Sciences of the Austrian Academy of Sciences, ÖAW** 2013-22. He is a member of the German Academy of Science and Engineering, **acatech** and the European Academy of Sciences and Arts, **EASA**. Georg Brasseur is an **IEEE** and **AAIA Fellow**, author of over **100 scientific publications**, of over **75 patents**, and he has received several international research awards, including the **Wilhelm Exner Medal** and the **Erwin Schrödinger Prize** of the ÖAW. His research interests include automotive electronics, sensor technology, capacitive measurement, circuit design, and sustainable mobility.

## ESEIA LECTURE SERIES

**Connect, share knowledge and discuss the way forward  
toward a climate-neutral future.**

If we want to achieve climate neutrality by 2050, we must strengthen the understanding of the challenges we face and the interdisciplinary interactions involved in engineering a successful transformation process.

Join us at the upcoming events for an opportunity to engage with leading minds from science, education and training, business, politics, media, and civil society who will share their perspectives on this topic.

You will be able to:

- Explore paths to a carbon-neutral energy system;
- Discuss the challenges and opportunities for sustainable innovation in Europe today;
- Contribute to increasing awareness of the role, everybody must play in climate change mitigation.

### Key Information

#### Aim

The EU is at the forefront of the global energy transformation, but while it has made great strides in reducing GHG emissions, it still has much work to do to achieve climate neutrality by 2050. The new ESEIA Lecture Series aims to improve the understanding of how different societal actors can mutually influence and support each other in tackling climate change and creating a sustainable future. To do that, it will provide a platform for intensive open debate among all the attendees.

#### Format

The lectures will be delivered in English in a hybrid format – in person with live streaming. Each session will feature a panel of three speakers, who will present the topic and their perspectives and encourage contributions from the floor.

#### Topics

- Smart energy systems for a sustainable future
- Decarbonisation of Energy-Intensive Industries (EIIs)
- New European Bauhaus: sustainable aesthetics in the built environment
- Sustainable mobility for urban resilience
- The social aspects of the energy transition

#### Target audience

This series of lectures is for everyone with existing knowledge or interest in the topic (European SMEs, local and regional governments, researchers from HEIs and ROs, and post-graduate students)

#### Venue

Graz University of Technology, in Graz, Austria and Webex (hybrid)

### Upcoming ESEIA Lecture Series 2023

- **8<sup>th</sup> Lecture:** 16 Nov. 2023, 19.00 -21.00, Aula, TU Graz, **Smart Integration of Sustainable Mobility Solutions for Urban Areas**

**For more information, please visit: [www.eseia.eu](http://www.eseia.eu)**

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