

ESEIA Lecture Series

Sustainable Energy Innovation Systems for Climate Neutrality



The 9th Lecture

Advanced Tools for Planning and Management of Climate Neutral Buildings

Date: 18 April 2024, 19:00 – 21:00 CET

Venue: Aula, TU Graz (Hybrid)

Invitation

[European Sustainable Energy Innovation Alliance - ESEIA](#) cordially invites you to attend the **ninth** in a series of ESEIA international lectures entitled **Sustainable Energy Innovation Systems for Climate Neutrality**. The event is supported by the **Styrian Government**.

The ninth lecture, on **Advanced Tools for Planning and Management of Climate Neutral Buildings** will be held at **Aula, TU Graz, 18 April 2024, 19:00 – 21:00 CET**. The lecture is also accessible online.

Invited Lecture by: **Carlos Ochoa** ([short CV below](#)), Senior Researcher at International Energy Research Center (IERC)

Response 1: **Steffen Robi**, CEO of Digital Findet Stadt GmbH

Response 2: **Birgit Jandl**, CEO of Lendmark GmbH

Chair: **Alexander Passer**, Professor of Sustainable Construction at TU Graz

Host: **Michael Monsberger**, Vice-Rector Infrastructure and Sustainability at TU Graz

Much care is needed to design, construct, and renovate in a climate neutral way ensuring circular economy according to EU Climate laws. Even more so if what is at stake is the overall quality of the building and the comfort and well-being of the people who use it. Building managers and architects are looking for improved building management system embracing a life-cycle approach, as well as improved tools for energy management, environmental performance, renovation optimization, and investment planning. The lecture will discuss how to break down climate targets to the building level by reducing grey and operational emissions and which role advanced tools such as Digital Twins and advanced BIM systems can play. The main lecture is followed by a response which will shed light on the effects of digitalization on building value chains, especially SMEs. The second response will present the City of Graz landmark which is the first EU taxonomy conform building in the City of Graz.

Join us for this exceptional lecture! We invite you to [register](#) for onsite or online participation **before 16 April**.

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

Brigitte Hasewend,
ESEIA Director

Harald Kainz
ESEIA President



Dr Carlos Ochoa is an architect with specialization on sustainable environmental design analysis. He joined the IERC as a Building Energy Senior Researcher. His research primarily focuses on **balancing energy savings with user quality**. In addition to his expertise in **sustainable design of climate-adaptable buildings using both passive and active technologies**. Dr Ochoa has further specialized in **visual and thermal comfort** during his postdoctoral research at Eindhoven University of Technology. Among his noteworthy achievements is the development of **NewFacades**, a **computer selection tool** for the early architectural design stages. Very few examples of such tools exist, making his contribution significant.

Currently, he is project coordinator of the Horizon 2020 project **MiniStor** at IERC. Prior to this role, He was senior researcher at the EU projects **RECO2ST**, **BRESAER** and **MEEFS**, where he helped develop **climatic strategies** for a prefabricated facade system for energy saving and planning of a computer selection program.

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.

Topic

- 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)

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