CONECT 2025

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RIGA TECHNICAL UNIVERSITY

XVIII International Scientific Conference of Environmental and Climate Technologies

BOOK OF ABSTRACTS

14–16 May 2025 | Riga, Latvia

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Environmental and Climate Technologies

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ORGANIZERS

RIGA TECHNICAL UNIVERSITY

RTU IESE

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LIVE RIGA

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CONECT 2025

XVIII International

Scientific Conference of Environmental and Climate Technologies

Welcome to CONECT 2025 – an internationally recognized scientific forum that, since 2008, has served as a vibrant meeting point for scientists, researchers, PhD students, and professionals from over 25 countries.

This conference provides a unique opportunity to share the latest scientific achievements in energy systems and environmental engineering, promote interdisciplinary dialogue, and publish cutting-edge research. With over 200 participants and more than 75 speakers, CONECT fosters global networking and collaboration across academia, industry, and policy.

The three-day programme features dynamic plenary and panel sessions focusing on a wide range of themes such as:

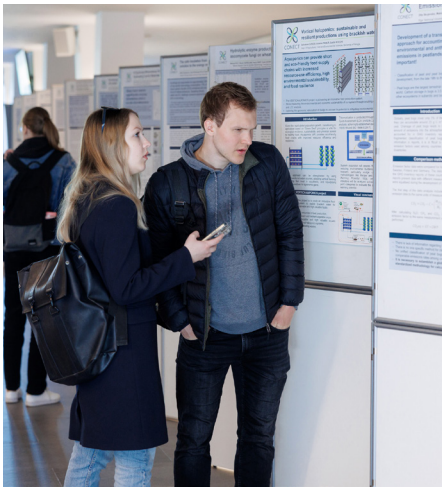
- Bioresources
- Biotechnologies
- District Heating
- Energy Efficiency
- Environmental and Energy Policies and Frameworks
- Low Carbon Development and Bioeconomy
- Renewable Energy Technologies
- Sustainability and ResilienceEnvironmental and Energy
  Policies and Frameworks
- Low Carbon Development and Bioeconomy
- Renewable Energy Technologies
- Sustainability and Resilience

Topics covered will include, but are not limited to

- Added Value Products
- Biodegradable Byproducts
- Bioeconomy Management
- Bioeconomy Policy
- Biofuels, Biofuels and Alternative Fuels
- Climate Policies
- CO2 management
- Energy and Carbon Markets
- Energy and Environmental Modelling
- Energy Efficiency Improvement
- Energy Management, Policy, and Economics
- Green Transport Systems
- Heat and Power Generation, incl. District Heating and/or Cooling
- Pollution Prevention
- Resource Efficiency, Circular Economy, and Eco-design
- Smart Energy and Zero Carbon Technologies
- System Approach Integration in Energy Sector

Conference papers are published in the internationally indexed journal Environmental and Climate Technologies (ISSN: 2255-8837), indexed in SCOPUS and Web of Science.

Organized by the Institute of Energy Systems and Environment of Riga Technical University, CONECT 2025 continues to inspire progress toward a resilient and sustainable future.



WE WISH YOU A PRODUCTIVE AND INSPIRING CONFERENCE!

FOR MORE DETAILS, VISIT: www.conect.rtu.lv

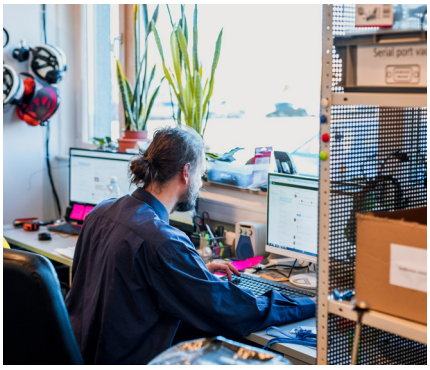
RTU IESE

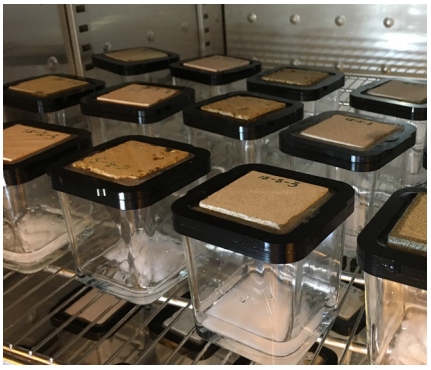
IESE is gradually becoming a leader in Environmental Science and engineering science in Latvia.

This is testified by our partners' unwavering interest in cooperation with us both in research sectors well-balanced in climate technologies and resilience, energy and environmental policy, environmental governance and energy management and resolution of engineering-technical issues in industrial, agricultural, energy and waste management companies.

IESE commitment to sustainability fosters innovation and subsequently supports future projects.

The balanced advancement in the IESE scientific research capacities is made sustainable through cooperation with partners in Latvia, the European Union member states, Norway, the USA, Colombia, Canada, Taiwan, India, and other countries. We participate in joint projects within the Baltic Sea Region, HORIZON and the Nordic Energy Research programmes. Our commitment to collaboration and our international focus has been the key factors in attracting investment and facilitated the resolution of several environmental and engineering issues.



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JOURNAL OF ENVIRONMENTAL AND CLIMATE TECHNOLOGIES

The Journal of Environmental and Climate Technologies, published by RTU IESE, is an international scientific journal that offers global exposure for original research and innovations.

It covers a variety of topics for all aspects of Environmental science:

- Renewable Energy Technologies,
- Cleaner Production and Industrial Symbiosis,
- Ecodesign and Life Cycle Assessment,
- Climate Technologies,
- Climate Change and Resilience,
- Circular Economy,
- Environmental Monitoring and Remediation.

The electronic version of the journal is published by De Gruyter Open (formerly Versita). The papers are indexed in Scopus and Web of Science data bases.

Scopus® WEB OF SCIENCE™

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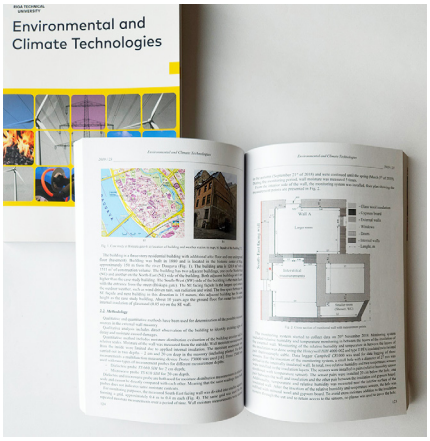

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SUPPORTERS

**We express gratitude to the sponsors
for their support towards this year's conference.**

Riga Investment and Tourism Agency

Riga Investment and Tourism Agency (LIVE RIGA) was established on the 1st of April 2021.

The main goal of LIVE RIGA is to ensure sustainable and transparent investment and global tourism promotion. By serving as the single point of contact for any external interested parties, including investors, companies, tourists, and residents alike, we provide valuable information, solve bottlenecks, and ensure a thriving and sustainable environment for business development. This supports the existing investment projects and attracts new ones, thereby boosting tourism development and the international recognition of Riga, and ultimately, enhancing the city's economic and social development.

In a time of modern challenges, LIVE RIGA is not just a step, but a proactive leap towards new open and creative relationships between citizens, businesses, and tourists. This proactive approach ensures that Riga is always at the forefront of development and innovation.

The accommodation of CONECT 2025 participants is taken care of by the Mogotel hotel group.

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