





# **WELCOME**

# ICP2825

9-11 October Antalya

Türkiye

We are pleased to announce the 8th International Conference on Polygeneration (ICP2025), taking place from 9th to 11th October 2025, in Antalya, Türkiye. This year, ICP2025 will gather global experts to discuss cutting-edge advancements and strategies in polygeneration systems, featuring keynotes, technical sessions, and panel discussions that address the critical role of polygeneration in sustainable, low-carbon, and resource-efficient energy solutions.

By bringing together researchers, industry leaders, and policymakers from around the world, ICP2025 aims to inspire forward-thinking dialogue and collaboration. Together, we will explore innovative technologies and policy frameworks to shape the future of polygeneration and accelerate progress toward a climate-neutral world.

Join us in Antalya to exchange insights and contribute to a sustainable energy future!

Prof. Dr. Onder Kizilkan Conference Chair

#### DEADLINES

Paper Template
Click here for templates and
submissions guidelines

Call for papers

til 30 June 2025

- 1. Abstract submission
- 20 February 15 May 2025
- 2. Abstract acceptance notification

25 May 2025

- 3. Manuscript submission
- 30 May 30 June 2035
- 4. Manuscript acceptance notification

15 July 2025

5. Manuscript final version submission deadline

15 September 2025

### **CONFERENCE OUTLINE**

The Intergovernmental Panel on Climate Change has emphasized the urgency of reducing greenhouse gas emissions to avoid surpassing a 1.5°C increase in global temperatures. To meet this challenge, it is essential for global policies and actions to align towards achieving netzero CO<sub>2</sub> emissions by 2050. This goal has prompted the European Commission to set a target of reducing greenhouse emissions by at least 55% by 2030, with the European Union committed to achieving a climate-neutral society by 2050. Additionally, major economies in Asia, such as Japan and South Korea, have committed to net-zero targets by 2050, and China by 2060, while the United States has reinforced its climate policy in alignment with the Paris Agreement.

# Polygeneration Systems as a Solution

Polygeneration systems offer a critical approach to meeting global climate goals.

Through the efficient integration of energy pro-cesses, these systems enable the simultaneous production of electricity, heating, cooling, and other valuable outputs such as potable water, dry air, biofuels, or synthetic fuels. By optimi-zing resource consumption and reducing both greenhouse gas and pollutant emissions, polygeneration systems present a sustainable and economically beneficial alternative to conventional, separate production methods. Additionally, the flexibility of these systems allows for the integration of renewable energy technologies, supporting global initiatives like the Paris Agreement and fostering energy efficiency and environmental sustainability.

### ICP2025 in Antalya, Türkiye

This year, ICP2025 will be held in Antalya,
Türkiye, and aims to bring together global
experts to discuss the latest advances and
strategies in polygeneration systems. The
conference will feature keynotes, technical
sessions, and panel discussions focusing on
innovative research, technological
advancements, and policy frameworks that
support the global transition toward low-carbon,
resource-efficient energy solutions. With a focus
on sustainable and efficient energy solutions,
ICP2025 aims to showcase innovations in
polygeneration that integrate renewable
energy, reduce emissions, and support global
climate goals.

Join us in Antalya to exchange insights, forge collaborations, and contribute to a climateneutral future.

### TENTATIVE PROGRAMME (=> ICP2025

#### THURSDAY, 9th OCTOBER 8:30h - 9:00h Conference Registration 9:00h - 9:40h **Opening Ceremony** 9:40h - 10:20h Keynote Session 10:20h - 10:40h **COFFEE BREAK** 10:40h - 12:00h Keynote Session 12:00h - 14:00h LUNCH 14:00h - 15:30h Parallel Session 15:30h - 16:00h **COFFEE BREAK** 16:00h - 18:00h Parallel Session

FRIDAY, 10th OCTOBER		
8:30h - 9:00h	Conference Registration	
9:00h - 10:20h	Keynote Session	
10:20h - 10:45h	COFFEE BREAK	SNOL
10:45h - 12:15h	Parallel Session	ENTATI
12:15h - 14:00h	LUNCH	
14:00h - 15:30h	Parallel Session	
15:30h - 16:00h	COFFEE BREAK	POSTE
16:00h - 18:00h	Parallel Session	

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Conference Registration		
Parallel Session		
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Parallel Session	POST	
Closing Ceremony	ď.	
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### **TOPICS & SPECIAL ISSUES**



The 8<sup>th</sup> International Conference on Polygeneration (ICP2025), hosted in Antalya, Türkiye, serves as a dynamic platform for researchers, scientists, and engineers across disciplines to explore the latest advancements in energy technologies. By bringing together key stake-holders, ICP2025 facilitates discussions on the latest research, technologies, and sustainable practices in energy systems that address pressing environmental challenges. This conference provides a unique opportunity to discuss current issues, evolving needs, and future expectations in polygeneration.

**ICP2025** is dedicated to uniting researchers from diverse fields and countries to promote the exchange of ideas and innovative approaches. With a focus on developing sustainable solutions that bridge scientific and industrial goals, the conference seeks to foster collaboration and advance global initiatives in energy and environmental policy. Topics will include, but are not limited to:

- Power systems
- Heat pumps and refrigeration systems
- Energy storage
- Solar cogeneration
- Emerging and hybrid technologies
- Optimization and energy efficiency of polygeneration systems
- Distributed energy systems
- Polygeneration plants and applications
- Life cycle analysis and thermoeconomic studies
- Polygeneration in buildings and district systems/
   Polygeneration in district energy networks
- Polygeneration based on hydrogen and fuel cell technologies
- Carbon capture and storage, carbon sequestration technologies

- Clean energy conversion
- Combustion, pyrolysis, and gasification technologies
- Desalination technologies
- Energy policies and strategies
- Energy systems modeling
- Exergoeconomics and thermoeconomics
- Exergy analysis
- Life cycle assessment
- Nuclear energy and technologies
- Sustainable development
- Waste management
- Wastewater treatment techniques
- Water and water issues

#### **CONFERENCE CHAIR**

### Onder Kizilkan

Isparta University of Applied Sciences, Türkiye

#### ORGANIZING COMMITTEE MEMBERS

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Ziad Saghir Toronto Metropolitan University, Canada





### Venue

This year, the 8th International Conference on Polygeneration (ICP2025) will be held in the vibrant city of Antalya, Türkiye. Known for its breathtaking Mediterranean coastline, rich history, and cultural heritage, Antalya provides an inspiring and picturesque setting for global experts to gather and exchange insights on sustainable energy solutions. Often referred to as the "Turkish Riviera," Antalya offers a unique blend of modern amenities and ancient charm, making it an ideal backdrop for fostering collaboration and innovation in the field of polygeneration.









### We look forward to welcoming you to Antalya,

where scenic beauty and scientific discovery converge!

### Location

Innvista Hotel Belek, Kadriye Mah. Beşgöz Cad. No: 3, Serik / Belek / Antalya







Organization by



**Collaborating Organization** 



