



# Advancing turbomachinery innovations and strategies for net-zero pathways

12th IGTC, 14-15 October 2025, Brussels, Belgium



## Programme



<https://etn.global/events/igtc-25/>

The event is sponsored by:



# About the International Gas Turbine Conference

The International Gas Turbine Conference (IGTC) is ETN Global's flagship biennial event, bringing together the turbomachinery and energy community.

12<sup>th</sup> IGTC "*Advancing turbomachinery innovations and strategies for net-zero pathways*" will take place on 14-15 October at Tangla Hotel Brussels, Belgium.

## The objective

IGTC offers a powerful platform to position your company at the forefront of the energy transition. It brings together global energy stakeholders to showcase the latest innovations, highlight user priorities, explore global market opportunities and build new partnerships.

The conference also provides a forum to engage with policymakers on the frameworks and conditions needed to enable the required investments. From net-zero strategies to cutting-edge R&D, IGTC highlights suitable applications and global opportunities for carbon-neutral fuels, CCUS, hybrid systems, and sustainable heat solutions.

For manufacturers, suppliers and service providers it is an unmatched opportunity to connect with the global user community and policymakers, gain visibility and demonstrate leadership in delivering tomorrow's energy solutions.

## Parallel technical sessions

Designed around the needs of the gas turbine user community, these sessions address key R&D priorities essential for advancing turbomachinery. Showcasing the latest technology developments and innovations, they offer a balanced view of operational, environmental, and cost-related challenges.

## Keynote and panel sessions

Focused on net-zero strategies and technical pathways, these high-level discussions will address capacity gaps, flexibility needs, low-carbon solutions, energy efficiency opportunities, and product sustainability. Distinguished experts and high-level policymakers will explore how energy policy frameworks can better align with market needs.

## Attendees

The turbomachinery and energy community: utilities, industrial operators, energy companies (including oil & gas, pipeline operators and LNG companies), gas turbine manufacturers, suppliers and service providers, consultancies, research centres, universities, international analysis & forecasting organisations and policymakers.

## Registration

To register to the event, please visit the [12<sup>th</sup> IGTC event webpage](#).

## Accommodation

ETN Global's 12th IGTC will take place at Tangla Hotel Brussels. Special price via [booking link](#) only.

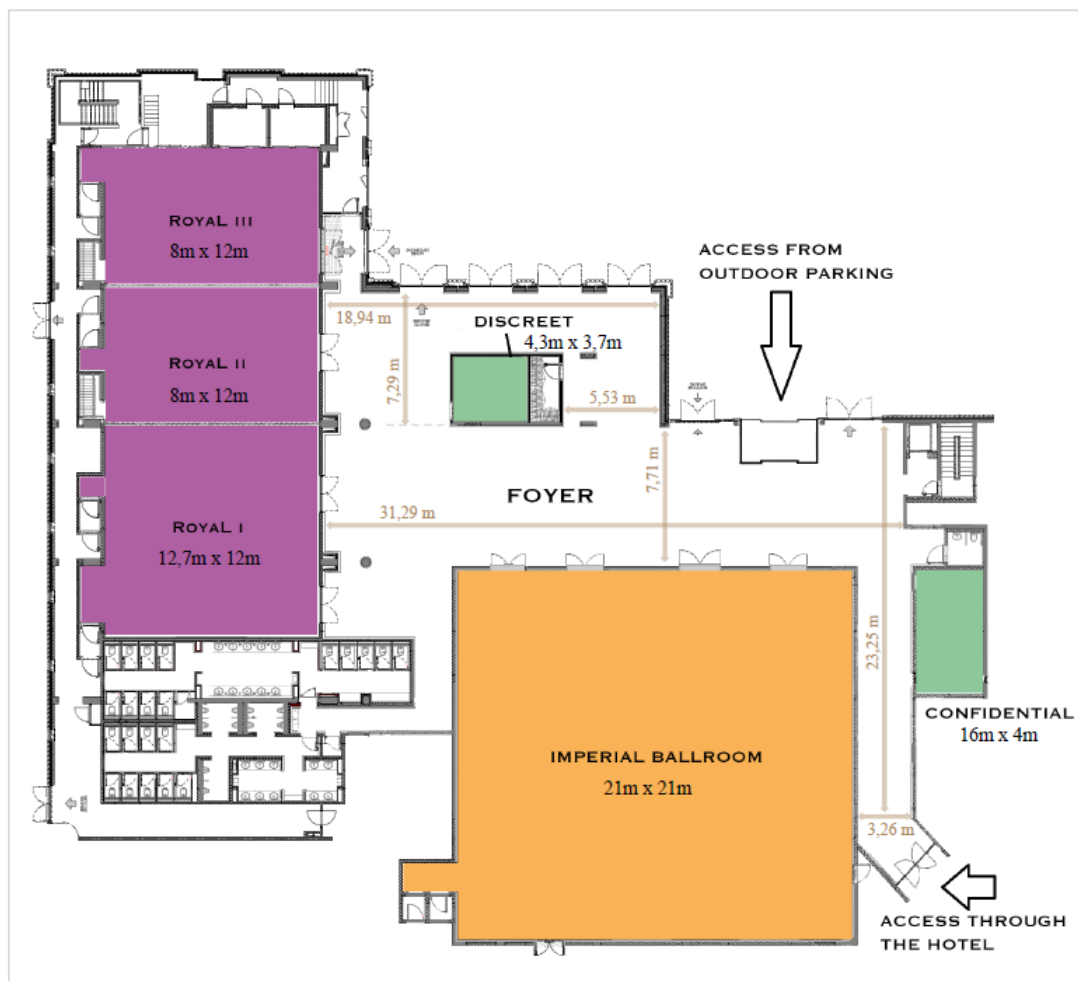
## Conference venue



Tangla Hotel Brussels (address: Avenue Emmanuel Mounier 5, 1200 Woluwé-Saint-Lambert, Brussels, Belgium) is conveniently located close to the Brussels Airport (BRU) (15 minutes by taxi or 35mins by bus R59).

The entire event area will be dedicated solely to attendees of ETN Global's 12<sup>th</sup> IGTC:

- **Royal Room I** is reserved for lunch and coffee breaks.
- **Royal Rooms II-III** and the **Imperial Ballroom** will host keynote panels and technical presentations.
- **The Foyer** is reserved for sponsors' booths.



# 12<sup>th</sup> IGTC programme

14 October 2025		
07:15 - 08:15	Registration at Tangla Brussels Hotel in front of Imperial Ballroom	
08:15 - 10:15	<p><b>Keynote session 1: Realigning policy and markets to tackle the energy trilemma in a changing world</b></p> <p><b>Chair:</b> Christer Björkqvist, ETN Global</p> <p><b>Moderator:</b> Junior Isles, TEIT</p> <p><b>Description:</b> This keynote session will explore how rising tariffs, supply chain disruptions, and changing political priorities are influencing energy market dynamics and driving a recalibration of policy frameworks across key global regions. It will also consider what changes are needed in national and international R&amp;D programmes and investment frameworks to translate political ambitions into deployable, investable actions.</p>	
10:15 - 11:00	Coffee break & expo	
11:00 - 12:30	Parallel technical sessions 1 + 2	
	Technical session 1: Progressing hydrogen-readiness - international field experience	Technical session 2: Advancing CO <sub>2</sub> technologies - capture and storage technologies, and power cycles
12.30 - 14:00	Lunch & expo	
14:00 - 14:45	<p><b>Keynote session 2: User priorities for a secure and net-zero energy future</b></p> <p><b>Description:</b> This session will spotlight perspectives from key user sectors: utilities, oil &amp; gas, and industrial energy users, who are shaping the future of dispatchable energy. Based on insights from ETN Global's High-Level User Meetings in 2024–2025, speakers will outline their preferred net-zero pathways and the critical challenges that must be addressed to ensure a secure and commercially viable energy transition.</p>	
14:45 – 15:45	<p><b>Keynote session 3: OEM roadmaps &amp; technology development: delivering on the energy trilemma</b></p> <p><b>Description:</b> Following the user insights shared in the previous session, this panel will bring together senior OEM representatives to respond with their strategic vision, fleet development plans, and innovation priorities. The discussion will focus on how OEMs are aligning their technology roadmaps to meet evolving user needs, support policy objectives, and deliver carbon-neutral, dispatchable solutions.</p>	

## 14 October 2025

15:45 - 16:15	Coffee break & expo	
16:15 - 17:45	Parallel technical sessions 3 + 4	
	Technical session 3: Alternative fuels-powered turbines - ready to deploy solutions for decarbonisation	Technical session 4: Enhancing flexibility in operations - design, control and retrofit solutions
18:15 - 19:15	Guests transported by busses from Tangla hotel to gala event	
19:30 - 22:30	Gala event	
22:30 – 23:00	Guests transported back to Tangla hotel	

## 15 October 2025

07:15 - 08:15	Registration at Tangla Brussels Hotel in front of Imperial Ballroom	
08:15 - 10:15	Parallel technical sessions 5 + 6	
	Technical session 5: Understanding hydrogen combustion- impact on performance, safety and emissions	Technical session 6: Enabling next-gen turbomachinery - advanced techniques for component design
10:15 - 11:00	Coffee break & expo	
11:00 - 12:30	<b>Keynote session 4: Global gas turbine markets - regional pathways, shared challenges</b>  <b>Description:</b> This session will explore regional energy needs and the evolving role of gas turbines in supporting low-carbon energy transitions across various regions. While many countries share similar decarbonisation objectives, the actual pathways differ significantly due to local resource availability, policy frameworks, and energy security needs.	
12.30 - 14:00	Lunch & expo	
14:00 – 15:30	<b>Keynote session 5: Delivering the transition - integration, optimisation &amp; risk control</b>  <b>Description:</b> This keynote panel will explore the critical enablers required to accelerate the transition of gas turbines and turbomachinery systems toward a decarbonised, hydrogen-ready future. From cross-sector infrastructure and integration to asset lifecycle management and digital innovation, the session will highlight how a strategic mix of technology, collaboration, and investment readiness is essential for addressing emerging energy demands.	
15:30 - 16:00	Closing ceremony	
16:00 - 16:30	Coffee break	

# Keynote sessions

## Keynote session 1: Realigning policy and markets to tackle the energy trilemma in a changing world

### Chair and moderator

**Chair:** Christer Björkqvist, **Moderator:** Junior Isles, TEIT

### Keynote description

The global energy landscape is being reshaped by geopolitical tensions, shifting trade policies, and growing concerns over energy security. In response, governments and industry are adapting their climate strategies and R&D agendas to reflect a more pragmatic and regionally grounded approach to decarbonisation.

This keynote session will explore how rising tariffs, supply chain disruptions, and changing political priorities are influencing energy market dynamics and driving a recalibration of policy frameworks across key global regions.

The panel will explore how diversified, technology-inclusive approaches, including carbon-neutral fuels, CCUS, and dispatchable generation, can help meet the energy trilemma while maintaining competitiveness. The recent large-scale blackout in Spain and Portugal will also be touched upon as a stark reminder of the need for grid stability and the role of flexible, dispatchable assets.

The discussion will consider what changes are needed in national and international R&D programmes and investment frameworks to translate political ambitions into deployable, investable actions.

## Keynote session 2: User priorities for a secure and net-zero energy future

### Keynote description

This session will spotlight perspectives from key user sectors: utilities, oil & gas, and industrial energy users, who are shaping the future of dispatchable energy. Based on insights from ETN Global's High-Level User Meetings in 2024–2025, speakers will outline their preferred net-zero pathways and the critical challenges that must be addressed to ensure a secure and commercially viable energy transition.

## Keynote session 3: OEM roadmaps & technology development - delivering on the energy trilemma

### Keynote description

Following the user insights shared in the previous session, this panel will bring together senior OEM representatives to respond with their strategic vision, fleet development plans, and innovation priorities. The discussion will focus on how OEMs are aligning their technology roadmaps to meet evolving user needs, support policy objectives, and deliver carbon-neutral, dispatchable solutions.

### Topics include:

- Alignment of R&D roadmaps and investment timelines
- Timelines for product readiness and deployment
- Acceleration of product readiness through co-development and field demonstration
- Product and service adaptations for reliability and flexibility
- Collaborative development and demonstration approaches
- Strategy to overcome challenges in supply chains
- Collaborative models to overcome deployment barriers

## **Keynote session 4: Global gas turbine markets - regional pathways, shared challenges**

### **Keynote description**

This session will explore regional energy needs and the evolving role of gas turbines in supporting low-carbon energy transitions across various regions. While many countries share similar decarbonisation objectives, the actual pathways differ significantly due to local resource availability, policy frameworks, and energy security needs.

Through insights from North Africa, North America, and Southeast Asia, the speakers will highlight region-specific needs, challenges and opportunities, showcasing how flexible, dispatchable, and low-emission gas turbines can be integrated and tailored to local energy solutions.

## **Keynote panel session 5: Delivering the transition - integration, optimisation & risk control**

### **Keynote description**

This keynote panel will explore the critical enablers required to accelerate the transition of gas turbines and turbomachinery systems toward a decarbonised, hydrogen-ready future. From cross-sector infrastructure and integration to asset lifecycle management and digital innovation, the session will highlight how a strategic mix of technology, collaboration, and investment readiness is essential for addressing emerging energy demands.

Speakers will share insights on the development of supportive infrastructure, CCS integration, and hydrogen transport, while also discussing innovations in lifecycle extension, spare parts production (including additive manufacturing), and digitalisation.

The aim is to provide a realistic perspective on overcoming uncertainty and enhancing investor confidence in demonstration and deployment projects, ensuring that turbomachinery remains at the forefront of the energy transition.