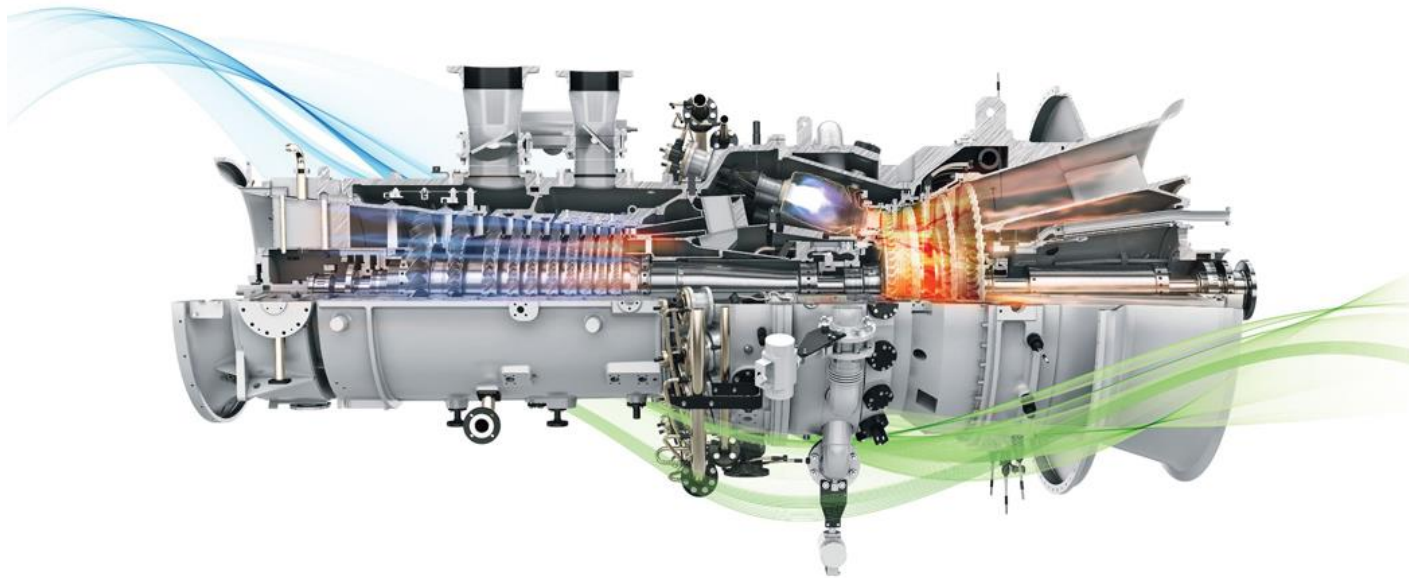


ETN'S 18th Annual General Meeting and Workshop

29-30 March 2022, Le Plaza Hotel, Brussels, Belgium



Programme

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EXHIBITORS



Agenda

TUESDAY 29 MARCH 2022 - Annual General Meeting - at Le Plaza Hotel

08:30 – 12:00	ETN Board (ETN Office), Project Board meeting (Le Plaza Hotel) & YEC meeting (Engie)
11:00 – 12:30	Registration at Le Plaza Hotel in Mathilde room (next entrance after the main hotel entrance)
12:00 – 13:00	Welcome lunch in the Gallery (Expo area)
13:00 – 15:00	<p>Opening and President's speech, <i>Pedro Lopez, ETN President / Uniper</i></p> <p>Approval of the previous AGM minutes</p> <p>Market and Policy introduction</p> <ul style="list-style-type: none"> • The Ukraine & Russia conflict and its impact on the gas and oil markets and what it means for our industry and the energy transition? <i>Member of the Board</i> • Energy and climate policy, <i>Christer Björkqvist, Managing Director, ETN</i> <p>Activity report, <i>Christer Björkqvist, ETN</i></p> <ul style="list-style-type: none"> • Governance, activities, and achievements <p>Financial report, <i>Andy Williams, ETN Treasurer / Chromalloy</i></p> <ul style="list-style-type: none"> • Adoption of accounts <p>Key messages from ETN's High-Level User Meeting 2021 and ETN Strategy in the current geopolitical context, <i>Pedro Lopez, ETN President / Uniper</i></p> <p>Board Panel discussion and Q&A – The impact of Russia's invasion of Ukraine for our industry and the energy transition, <i>ETN Board</i></p> <ul style="list-style-type: none"> • A new dimension on the "Energy trilemma" • Positioning and actions • ETN strategy and activities <p>Discharge of the ETN Board 2020-2022</p> <p>Announcement of the new ETN Board 2022-2024</p>
15:00 – 15:30	Coffee break in the Gallery (Expo area)
15:30 – 17:30	<p>ETN Working Groups: objectives and outcomes</p> <ul style="list-style-type: none"> • Supercritical CO₂ WG: <i>Marco Ruggiero, Baker Hughes</i> <ul style="list-style-type: none"> ◦ CO2OLHEAT project, <i>Jitka Spolcova, ETN</i> • Air Filtration WG: <i>Olaf Brekke, Equinor</i> • Decentralised Energy Systems WG: <i>Peter Breuhaus, NORCE</i> <ul style="list-style-type: none"> ◦ Robinson project, <i>Simon Gianordoli, ETN</i> • Hydrogen WG: <i>Peter Kutne, DLR</i> <ul style="list-style-type: none"> ◦ FlexnConfu project, <i>Simon Gianordoli, ETN</i> • Additive Manufacturing WG: <i>Vladimir Navrotsky, Siemens Energy</i> <p>ETN User Groups: objectives and outcomes, <i>Dominique Orhon, Total Energies</i></p> <p>Young Engineers Committee, <i>Antonio Escamilla, University of Seville</i></p> <p>Conference Advisory Board of IGTC-23, <i>Sigrid Gijbels, Engie</i></p> <p>Upcoming ETN meetings & events, <i>Christer Björkqvist, ETN</i></p> <p>AGM closing remarks, <i>Pedro Lopez, ETN President, Uniper / Christer Björkqvist, ETN</i></p>
17:30 – 17:50	Gathering of the newly elected Board
18:00-19:00	Cocktail hour at Le Plaza hotel in the Gallery (Expo area)
19:00-21:00	Dinner at Le Plaza hotel in Adolphe Max room

WEDNESDAY 30 MARCH 2022 – Workshop – at Le Plaza Hotel

Plenary session in the Theatre

08:15-08:30	Welcome and objectives for the Workshop , <i>Hege Rognø, ETN Board Vice President, Equinor</i>	
08:30-09:15	Latest predictions and scenarios in the energy transition towards a carbon neutral future , <i>Brent Wanner, Head of Power Sector Unit, World Energy Outlook, International Energy Agency</i>	
09:15-10:00	Strategy and policies for future energy systems , <i>Jarig Steringa, Gasunie</i>	
10:00-10:30	Coffee break in the Gallery (Expo area)	
10:30-12:30 Parallel sessions	Topics for Session 1: (Versailles room) ETN Roadmap and pathways <i>Chaired by Peter Breuhaus, NORCE Moderated by Jeff Benoit, PSM-Hanwha</i>	Topics for Session 2: (Theatre) Technology developments: priorities and milestones <i>Chaired by Manfred Aigner, DLR Moderated by Peter Stuttaford, Thomassen Energy</i>
	10:30-11:30: GT capacity and supply chain to support the energy transition <i>Introduction, Bram Van Cauwenberge, Engie & Hege Rognø, Equinor</i> <i>How much GT capacity do we require to secure the electricity demand (2025-2050) and what size of machines?</i> <i>How much hydrogen do we need to make it happen?</i> <i>Input from the user community</i> <i>How to ensure the required amount of supply of hydrogen? Jeff Benoit, PSM-Hanwha</i>	10:30-11:30: GT cycle performance expectations in the energy transition <i>Introduction, Tom Kavanagh, Uniper</i> <i>What are the operational modes of the GTs in the upcoming energy transition?</i> <i>Which load ramps, fuel flexibility, emissions and minimum emissions-compliant load is required?</i> <i>Are our bottom cycles flexible enough to assure high efficiency?</i> <i>Input from the user community – discussion with OEMs</i>
	11:30-12:30: Is hydrogen firing commercial attractive? <i>A techno-economic study by ETN's Young Engineering Committee (YEC)</i>	11:30-12:30: Next Generation of combustion systems <i>Can we maintain NOx levels below 25 PPM with an increasing hydrogen content? Peter Kutne, DLR</i> <i>Retrofit opportunities and projects available for the existing market? Peter Stuttaford, Thomassen Energy</i> <i>Safety aspect and H₂ readiness of gas turbines? Chris Dagnall, DNV</i>
12:30-13:30	Lunch break in the Gallery (Expo area)	
13:30-15:00 Parallel sessions	13:30-14:30: Opportunities for GT in decentralised energy systems <i>Gas turbines in decentralised energy systems, Giuseppe Tilocca, University of Seville/ETN</i> <i>Decentralised energy solutions in Africa, Europe, and islands, Lionel Lafage, ETN Emeritus Member</i> <i>Future R&D cooperation opportunities, Simon Gianordoli, ETN</i>	13:30-14:30: Recovery of CO₂ from GT flue gases <i>Introduction, Dominique Orhon, Total Energies</i> <i>Gas turbine CO₂ emission sequestration needs and opportunities, Alexandre Pactat, R&D team Total Energies</i> <i>Discussion</i>
	14:30-15:00: Conclusions Session 1 , <i>Peter Breuhaus, NORCE</i>	14:30-15:00: Conclusions Session 2 , <i>Manfred Aigner, DLR and Peter Stuttaford Thomassen Energy</i>
15:00-15:30	Coffee break in the Gallery (Expo area)	
Plenary session in the Theatre		
15:30-16:30	Report from the TC Chairs on conclusions, takeaways/actions <i>Technical Committee Chairpersons, Peter Breuhaus, NORCE & Manfred Aigner, DLR and Peter Stuttaford Thomassen Energy</i>	

Registrations

- 28 March: registrations will take place between 20:00-22:00 in the hotel lobby
- 29 March: registrations will take place between 11:00-13:00 in Mathilde room (second entrance after main hotel entrance on Boulevard Adolphe Max).

Venue	Accommodation
Le Plaza Hotel Boulevard Adolphe Max 118-126 1000 Brussels	Le Plaza Hotel Boulevard Adolphe Max 118-126 1000 Brussels Marivaux Hotel Boulevard Adolphe Max 98B 1000 Brussels
Dinner	Contact
Le Plaza Hotel Boulevard Adolphe Max 118-126 1000 Brussels	Viktorija Charbagi +32 (0)2 646 15 77 vc@etn.global

Taxi number

Taxi Verts: +32 2 349 49 49

Directions

AGM & Workshop: The event will take place at Le Plaza Hotel (Boulevard Adolphe Max 118-126). It can be reached from Brussels airport by taxi or train. The nearest train stations are Gare du Nord (9-minute walk) and Gare Centrale (14-minute walk).

Dinner event: Cocktail hour and dinner will take place at Le Plaza Hotel.

Accommodation: Accommodation is available at Le Plaza hotel & Marivaux hotel. Both hotels are 2-minute walk apart.

Map

