

## Who Should Participate

- GT Users – power generation (utilities), mechanical drive (Oil & Gas) and marine applications
- Original Equipment Manufacturers
- Equipment/ Service Providers
- Universities and R&D Institutes
- Consultancies
- Policy Makers

## Conference

The conference aims to raise the awareness of GT technology development needs and provide the opportunity to meet and exchange ideas with policy makers and gas turbine specialists from the whole value chain attending from Europe, US and Asia.

The conference will stimulate enhanced international cooperation that can lead to the demonstration and implementation of innovative technologies for more efficient and environmentally-friendly gas turbines.

## Exhibit/Display Area

An exhibit/display area in which ongoing or completed research projects can be displayed will be made available. Projects with focus on the prioritised areas, as decided by the Conference Advisory Board, will be provided free exposure for dissemination purposes. An opportunity will also **be offered to SME's to display info material and/or components/ parts.**

## Sponsorship

To ensure your visibility at the conference, several sponsorship opportunities are available as well. All sponsors will receive personalised exposure at the venue. Please contact the ETN office to discuss possible options.



## Organisation

Conference Venue  
Brussels

### Conference Advisory Board

- Bernard Quiox, Total
- Cath Goy, E.ON
- Jacques Maunand, EDF
- Franco Rosatelli, Ansaldo
- Mark Mulder, VGT
- Ron Van Gestel, Chromalloy
- Richard Brown, Score Energy
- Michel Delanaye, Cenaero
- Pericles Pilidis, Cranfield Univ.
- Michael Deneve, Laborelec/  
Electrabel

Organiser  
European Turbine Network

Office Address  
ETN a.i.s.b.l.  
Rue Saint Georges 30  
1050 Brussels, Belgium

ETN Contact Persons  
Francisco Zamora  
Conference management

Christer Bjorkqvist,  
Managing Director

Contact Details  
T: +32-2-646 15 77  
F: +32-2-646 15 78  
info@etn-gasturbine.eu

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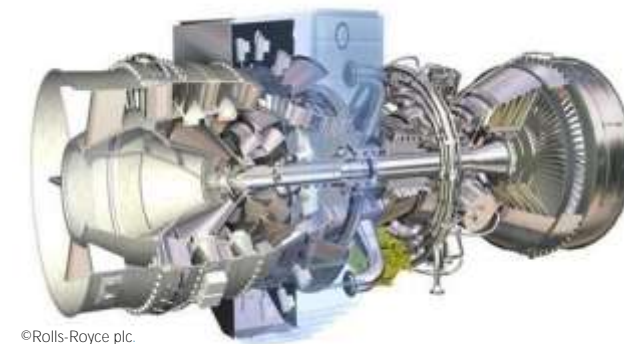
For conference updates and further details, please visit  
**ETN's website:**

[www.etn-gasturbine.eu](http://www.etn-gasturbine.eu)



# The Future of Gas Turbine Technology

## 5<sup>th</sup> International Conference



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## Call for Papers

October 2010

Brussels – Belgium  
Organised by ETN



Supporting organisations





## Objectives and Structure

The 5<sup>th</sup> International Gas Turbine Conference will focus on the future of gas turbine (GT) technology from a **user's, research and political point of view. It will also** explore the role played today by gas turbines in the international energy policy mix as well as for the decades to come.

The conference will present current and future **technology trends and the different stakeholders' views** on required gas turbine technology developments.

A keynote session will be devoted to how GT technology development can contribute to the mitigation of climate change and reduction of emissions towards the EU target year of 2020. Energy policies and initiatives for gas turbine development in Asia and the US will also be presented. This will be followed by a discussion led by a panel of experts and high level policy makers.

In parallel sessions, the conference will address critical research and development activities necessary for the advancement of gas turbine technology, from both operational and environmental perspectives. New inventions and ongoing gas turbine technologies will be **explored in response to the users' future requirements** with regard to efficient, reliable and environmentally sound operations.

In the technical sessions there will be a mix of research initiatives and experience reports of real case applications and demands with the aim to give a balanced view of the future needs for research in gas turbine applications.

## Request for Papers in GT Technology Areas

The main requests from the users at the past 4<sup>th</sup> IGTC-08 were improved efficiency, increased fuel flexibility, reduced emissions and reduced operational costs without affecting the reliability and availability of the gas turbines.

Therefore, with the aim of addressing these issues we call for papers in the following areas for the upcoming 5<sup>th</sup> IGTC 2010:

- Fuel Flexibility: dry low NOx injectors for liquid, dual fuel, biofuels (supply, processing, hardware design);
- New Cycles: Fuel cell - GT, Solar - GT and optimisation of GT for CCS;
- Lifetime/Interval Extension: achieving OEM intervals, repowering, interval extension, lifing methodologies, repair technologies, new part supply;
- Materials, Coatings & Structures: operating in harsh environments, ceramics, composites, superalloys, innovative design and manufacturing processes, trends, material availability;
- Cycle Efficiency: compressor, combustion, turbine;
- Condition Monitoring: in-situ inspection techniques, emissions monitoring, wireless instrumentation;
- Asset Management: life cycle costs, maintenance regimes, strategy for cost-efficient operation of GTs.

Please note that technical papers on micro gas turbines under the above topics are also welcomed.

Any related subject to the above mentioned topics, that **could have an positive impact on the user's requirements** will also be considered by the Conference Advisory Board.

## Submission of Papers

An abstract of approximately 400 words should be submitted in a word document by e-mail with the title **"Abstract"** to [info@etn-gasturbine.eu](mailto:info@etn-gasturbine.eu) before the 1<sup>st</sup> of December 2009. The abstracts must contain:

- Title of the paper;
- Names, affiliations, and full addresses of all authors;
- Complete contact details of all authors;
- Up to five keywords in descending order of importance.

The final acceptance of a paper is based upon positive reviews of the abstract. Accepted papers will appear in the conference proceedings available in CD-ROM format at the beginning of the conference.

### Important Deadlines:

Deadline for submission of abstract  
**1 December 2009**

Scientific committee review meeting  
15 January 2010

Notification of abstract acceptance  
31 January 2010

Deadline for submission of final papers  
31 May 2010

Final Review  
June 2010