



9<sup>th</sup> Gas Turbine Conference of the  
Institution of Diesel and Gas Turbine Engineers  
St Neots, UK – 22 & 23 November 2017

## The Role of the Gas Turbine in Today's Global Power Industry and other International Power Applications

### Call for Papers

IDGTE now invites the submission of abstracts for papers to be presented at its 9<sup>th</sup> Gas Turbine Conference to be held on 22 and 23 November 2017 at the Wyboston Lakes, St Neots, UK.

In its ninth edition, this recognised and successful biennial event offers a unique opportunity to present a paper on the latest developments in gas turbine engineering, technology and application.

#### Theme:

Gas turbines have been a key component for mechanical and electrical power generation for over 50 years. In this time the world has seen tremendous advances in the technical capabilities of these machines but also major changes in the markets in which they operate. IDGTE's biennial gas turbine conference offers a unique opportunity to hear and discuss the latest developments in gas turbine technologies set in the context of actual operational experience and the changing role for fossil fuelled generation. Papers from major manufacturers along with papers from operators, consultants and research institutions looking at the experience gained and potential future developments in this dynamic field of engineering.

Climate Change and the challenge of reducing carbon emissions has now become a major driver in the development and regeneration of energy infrastructure in all areas of the globe. This is seen in the choices for new capacity in nations with growing power demands and also developed countries with decisions to make on how they regenerate the infrastructure that has supported their growth over the past 50 years.

Gas Turbines in both mechanical and electrical applications provide an economic an efficient way of generating energy and new technology developments continue to enhance their competitiveness. Large H class machines can deliver cheap and reliable electricity for growing markets and replace older gas and coal generators with profitable and low impact capacity. Smaller units can provide low cost, decentralised capacity for peaking applications and mechanical drives. However the application of these technologies is increasingly dependent on national energy policies and integration with subsidised low carbon alternatives.

The conference will explore the latest developments in efficiency and flexibility and also the way in which operators are upgrading existing assets to respond to the changing market.

Developments in fuel flexibility will be discussed and ways in which gas turbine technology can deliver future value through the combustion of alternative low carbon fuels such as Hydrogen.

Recent technology developments, which have immediate application to operation and monitoring of existing and current new plant offerings will also be presented and discussed.

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The topics being covered during the conference will include, but not restricted to:

- Living with changes in power generation market
- Planning for Future Changes
- Support of Intermittent Renewable Energy
- OCGT & CCGT Considerations
- New Technology Developments Latest OEM developments
- Oil and Gas Applications
- Distributed Power Solutions
- Novel Concepts & Renewable Integration
- Grid Code challenges
- Fuel Flexibility
- Energy Storage
- Condition Monitoring
- Operation and Maintenance Considerations

This is an excellent opportunity to present to an international audience.

Abstracts relevant to the conference theme are invited from prospective contributors to be received by 1<sup>st</sup> May 2017.

## Requirements and Conditions

Authors should submit an abstract of no more than **200 words by 1<sup>st</sup> May 2017** to [conferences@idgte.org](mailto:conferences@idgte.org) stating whether the paper has been previously presented and if so provide details.

For the selected abstracts, the Author will be requested to prepare **a full-length paper and a short biography by the 31st July 2017**. The paper will be subject to review by the conference organising committee and comments will be provided after review. Final papers will ultimately be made available to conference delegates.

The presentation of the paper, including time for questions, will be limited to 40 minutes. Projection facilities for presentations will be available. Speakers will be requested to provide copies of the presentation on the day. Sensitive slides may be excluded by the speaker.

Conference Speakers will receive one complimentary delegate registration. This will include attendance at the conference, two lunches and the conference dinner. Conference Speakers will be required to meet the cost of their travel expenses, hotel accommodation and personal expenses.

***An exhibition will be held in conjunction with the conference. The exhibition can accommodate graphic displays and small items of gas turbine related hardware. Companies are invited to enquire about the exhibition facilities.***

If you have any questions concerning the abstract or paper submittal process, please contact IDGTE office in Bedford United Kingdom on +44 (0)1234 214340 or via email at [conferences@idgte.org](mailto:conferences@idgte.org)