Conference Highlights

- Energy policy and the regulatory landscape affecting Europe’s energy markets
- Meeting the need for cost-effective backup power generation in Europe
- Drivers for gas versus renewable energy in the European power sector
- Market considerations for investment into gas-fired power projects
- Financial support mechanisms for low carbon power generation technologies
- Coal to gas competition in the European power sector
- Unconventional gas and potential effect on gas supply demand balance
- Improving operational efficiency of gas turbines
- CCGT fleet management and maintenance

Monday 25th – Tuesday 26th February 2013, Crowne Plaza Le Palace, Brussels

Contributions from leading industry organisations and experts including:

- Håkan Feuk, Eurelectric
- Thijs van Hittersum, International Energy Agency
- Helge-Jürgen Beil, Statkraft Markets GmbH
- Andrea Čiričová, ENTSOG
- François Giger, EDF
- Lionel Kapff, Deloitte Consulting
- Andre Mom, European Turbine Network
- Marco Nicolosi, Ecofys
- Malene Hein Nybroe, EnergiNet DK
- Carmen Vindel, Gas Natural Fenosa
- Simon Bennett, International Energy Agency
- Stephan Melis and Yoshi Yonekura, CMI Energy
- Christer Björkqvist, European Turbine Network
- Allan Baker, Société Générale
- Mats Nilsson, Vattenfall AB
- Dr Samuele Furfari, European Commission
- Jasper Vis, DONG Energy
- Nigel Hawkins, Enel
- Swit Tarbell, Pratt & Whitney
- Jeroen de Joode, Energy Research Centre
Gas to Power Journal’s European Conference addresses the challenges facing policy makers, regulators, utility companies and the investment community, as Europe continues to make the transition to renewable power generation and meet its carbon emission reduction goals.

The prospect of an ‘energy gap’ created by the decline of nuclear power and the need for reliable back-up fuels to support intermittent renewable power sources, has increased the strategic importance of natural gas in meeting power demand in Europe.

The role of gas is critical in bridging the gap to renewable energy, however investment into new gas-fired power generation capacity is stifled by policy uncertainties, low spark spreads and market conditions that have rendered many existing gas-fired power plants unprofitable to operators.

Building on a series of energy market conferences in the UK, Spain and Turkey, this conference will explore European energy policy developments, power demand projections, optimal conditions for investment and the current state of European power markets.

Expert led sessions with speakers drawn from across the energy industry, will highlight ways forward in developing robust, reliable and workable solutions to keep pace with energy demand in Europe.

**WHO IS THIS CONFERENCE FOR?**

This conference is aimed at attendees from utilities and power generation companies, energy policy and regulatory bodies, energy infrastructure project finance, banking and legal firms, and low-carbon and renewable energy companies. Including professionals responsible for:

- Energy Policy / Regulation
- Project Management and Development
- Gas Procurement / Origination
- Power Generation
- Carbon Reduction / CCS Programmes
- Gas Supply and Trading
- Power Plant Management
- CCGT Technology / Operations/Maintenance
- Trading Operations
- Grid Development
- Gas Turbine Manufacture
- Market Development
- Analysis
- Business Development
- Fleet Management
- Project Finance and Investment
- Regulatory Economics
- Asset Management and Optimisation
- Sales and Marketing
- Corporate Strategy
- Turbine Engineering
- Regulatory Relations

**About Us**

Gas to Power Journal is a specialist publication for the natural gas power generation industry, supplying analysis and insight on topics including combined cycle gas turbine technology and gas fired power plant efficiency, as well as developments in plant projects, financing and markets.

Our daily updated journal provides insight into global energy markets for those seeking to explore the technical, strategic and commercial opportunities in natural gas power generation and related issues.
### Day One - Monday 25th February

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<td>Registration, Tea and Coffee</td>
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<td>09:15</td>
<td>Gas to Power Welcome and Chairperson’s Opening Address</td>
<td>Christer Björkqvist, Managing Director, European Turbine Network</td>
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<tr>
<td>09:30</td>
<td>Europe's Energy Challenges</td>
<td>Mats Nilsson, Economist, Vattenfall AB</td>
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<tr>
<td>09:45</td>
<td>• Rising energy demand and energy prices</td>
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<td>• Encouraging investment into power generation</td>
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<td>• Electricity generation from renewable sources</td>
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<td>• The need to adapt centralised coal, nuclear and gas power generation</td>
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<td>10:00</td>
<td>Electricity Market Design and Investment in a Changing Energy Environment</td>
<td>Håkan Feuk, Chairman of TF Market Design for RES Integration, Eurelectric</td>
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<td></td>
<td>• What is needed to back up intermittent generation?</td>
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<td>• What needs to be done to energy markets?</td>
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<td>• Will we see a European capacity mechanism design?</td>
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<td>10:30</td>
<td>Cross-Border Electricity Interconnections for a Well-Functioning EU Internal Electricity Market</td>
<td>Lionel Kapff, Consultant, Public Sector Policy - European Union Institutions, Deloitte Consulting</td>
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<td>• Developing sufficient physical transmission links between Member States</td>
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<td>• Investment into interconnectors – opportunities and barriers</td>
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<td>• What EU regime of regulatory incentives?</td>
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<td>11:00</td>
<td>Morning Tea and Coffee</td>
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<td>11:30</td>
<td>European Power Generation and the Role of Natural Gas</td>
<td>Thijs van Hittersum, Natural Gas Analyst, Gas, Coal &amp; Power Markets Division, International Energy Agency</td>
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<td></td>
<td>• Natural gas across European power markets</td>
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<td>• Gas demand growth projections</td>
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<td>• Policy uncertainties impacting on demand</td>
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<td>• Competitiveness of coal to gas</td>
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<td>12:00</td>
<td>Large Scale Gas to Power Generation Across Europe</td>
<td>Samuele Furfari, Advisor to the Director General for Energy, European Commission</td>
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<td></td>
<td>• EU policy developments and impact on power generation markets</td>
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<td>• Regulatory and policy considerations for building gas-fired power plants</td>
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<td>• European gas supply now and in the future</td>
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<td>12:30</td>
<td>The Need for Investment into Energy Infrastructure in Europe</td>
<td>Allan Baker, Managing Director, Global Head of Power, Société Générale</td>
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<td>• Replacing ageing plants and closing the energy gap</td>
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<td>• Increasing backup capacity for renewables</td>
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<td>• Profitability of power generation assets and the rate of return for different technologies</td>
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<td>13:00</td>
<td>Lunch Break</td>
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<td>14:00</td>
<td>Profitability of Gas v Coal Power Plants</td>
<td>Helge-Jürgen Beil, Vice President Asset Origination, Statkraft Markets GmbH</td>
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<td>• Spark versus dark spread</td>
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<td>• Valuation of spark spread and linking price to production emissions</td>
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<td>14:30</td>
<td>Panel Discussion: Commercial Viability of Gas Fired Power Generation</td>
<td>Marco Nicolosi, Senior Consultant, Power Systems and Markets, Ecofys</td>
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<td>• Gas pricing issues affecting investment</td>
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<td>• Market prospects and considerations for partners</td>
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<td>• Investment scenarios for gas fired power generation</td>
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<td>15:00</td>
<td>Afternoon Tea and Coffee</td>
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<td>15:30</td>
<td>Capacity Mechanisms and Options to Address the Challenges</td>
<td>Marco Nicolosi, Senior Consultant, Power Systems and Markets, Ecofys</td>
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<td></td>
<td>• Economic background of the debate on capacity mechanisms</td>
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<td>• Market effects of the EU internal market development and renewable electricity integration</td>
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<td>• Effects of capacity markets and strategic reserves in coping with the challenges of the current transition phase</td>
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<td>16:00</td>
<td>Ten-Year Network Development Plan 2013-2022</td>
<td>Jeroen de Joode, Coordinator Natural Gas, Energy Research Centre</td>
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<td>• The range of potential futures</td>
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<td>• Network resilience and market integration outlook</td>
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<td>• Role of gas to power in the overall market demand</td>
<td>Andrea Ćirlićová, Business Area Manager, System Development, ENTSOG</td>
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<td>16:30</td>
<td>Shale Gas – Opportunities and Challenges for European Power Markets</td>
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<td>• Prospects for European shale gas production</td>
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<td>• Potential for shale gas to be a game changer for the EU gas market</td>
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<td>• Impact on demand and supply balances across Europe</td>
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<td>• Effect on the role of gas in power generation in the coming decades</td>
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<td>17:00</td>
<td>Chairperson’s Closing Remarks and Drinks Reception</td>
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DAY TWO – TUESDAY 26TH FEBRUARY

08:30  Registration, Tea and Coffee

09:15  Gas to Power Welcome and Chairperson’s Opening Address
Christer Björkqvist, Managing Director, European Turbine Network

Partnership Working

09:30  The Energy Partnership and Europe’s Low-Carbon Energy Future
• Developing a European energy market based on the complementary use of renewable energy and gas
• Combining variable renewable energy and the flexibility of gas
• Policy goals and the need for an integrated European energy policy for 2030 and beyond
Jasper Vis, Head of Regulatory Affairs, DONG Energy

Power Generation Country Case Studies

10:00  Italian Electricity Market Outlook
• Changes in primary energy sources
• Availability of gas supplies and renewable power generation
• Investing in baseload capacity and flexible power generation
• Boosting the competitiveness of CCGT fleets
Nigel Hawkins, Director of Bidding, Enel

10:30  Natural Gas in Spanish Power Generation
• Current Spanish generation situation
• RES integration: impact on the gas system
• Regulatory context
• Reducing CO2 emissions and long term sustainability of gas in the energy mix
• Lessons to be learnt and the way forward
Carmen Vindel, Head of International Regulation, Gas Natural Fenosa

11:00  Morning Tea and Coffee

11:30  Gas Meeting the Power Demand in France with New CCGT and Repowering
• The present share of gas-based generation in France
• Current EDF gas-based projects
• New brown field Blénod CCGT and the repowering of two previous oil-fired units into CCGTs in Martigues
François Giger, Strategy Manager, EDF

Gas and Renewable Energy

12:00  Hybrid Power Generation
• Flexible integration of fluctuating electricity (wind, solar) with biomass and waste
• Utilising gas for peak load electricity capacity
• Emerging technologies in renewable, biogas and plasma gasification
Malene Hein Nybroe, Gas Development and Preparedness Manager, EnergiNet DK

12:30  The Potential of Gas and Carbon Capture and Storage in Meeting the EU’s 2050 Energy Goals
• Challenges to meeting the EU’s goal of achieving an 80-95% reduction in GHG emissions
• Ensuring a stable and flexible supply of electricity in order to meet future demand
• The benefit of moving towards the application of gas in any future energy mix for power generation, in parallel with improved efficiency, increased level of renewables and energy storage
• Overall efficiency and CO2 emission levels of natural gas and coal-fired power generation with and without CCS technology applied
André Mom, President Emeritus, European Turbine Network

13:00  Lunch Break

14:00  Carbon Capture and Storage (CCS) for Natural Gas Power Stations
• Scenarios for decreasing CO2 emissions across the electricity generation sector
• Applying CCS to achieve low carbon gas-fired power plants
• Technology status and requirements for deployment
Simon Bennett, Energy Analyst, International Energy Agency

14:30  Power Generation – Flexibility and Efficiency of CCGT from Heat Recovery Steam Generator Perspective
• Overview and perspective - gas-fired power generation market worldwide and in Europe
• Market requirement for more flexibility and efficient CCGT for the wind power intermittency
• Role of HRSG (Heat Recovery Steam Generator) in power generation
• Latest technical developments in CCGT technologies
• Case study information
• Features of HRSGs to enhance flexibility
Stephan Melis, Sales & Marketing VP, CMI Energy, and Yoshie Yonekura, Marketing & Sales Admin Manager, CMI Energy

15:00  Aeroderivative OCGT Technology for Grid Backup to Renewable Energy
• Keeping the transmission grid in balance
• Matching electric power generation with the electric load on the system
• Providing a ‘regulation service’ through aeroderivative gas turbines
• Flexible response fast start in 10 minutes with unlimited start-stop cycles
• Offsetting continuous variation between power generation and demand on the system caused by wind power intermittency
Swift Tarbell, Area Manager Europe, Pratt & Whitney

15:30  Chairperson’s Closing Remarks and End of Conference
Centrax manufacture gas turbine power generation packages ranging from 3.9 MW to 64.0 MW for both the Industrial and Oil & Gas energy markets. The prime application for Centrax gas turbine units is Combined Heat & Power (CHP)/Cogeneration in a wide range of industries.

CMI Energy is specialised in the design, supply, assembly and commissioning of steam generators for electric power generation and cogeneration units. CMI Energy is a technological leader in the market of Heat Recovery Steam Generators (HRSG) installed behind combustion turbines in combined cycle electric power stations. CMI HRSGs can be used with turbines of all capacities (from 30 MW to 270 MW+) and all makes.

Pratt & Whitney, a United Technologies Corp. company (NYSE:UTX), is a world leader in the design, manufacture and service of aircraft engines, industrial gas turbines and space propulsion systems.

DONG Energy is one of the leading energy groups in Northern Europe. We are headquartered in Denmark. Our business is based on procuring, producing, distributing and trading in energy and related products in Northern Europe.

Event partners
Who Should Attend

This forum has been developed with representatives from the following industry stakeholders in mind:

- Gas Suppliers/NOCs/IOCs
- Power Plant Operators
- Utilities Companies
- Power Generation/Transmission Companies
- Gas Storage and Processing Organisations
- Government and Industry Regulators
- Investment Banks
- Engineering, Design and Construction Companies responsible for construction, operations, and maintenance of power plants
- Gas Turbine/Rotating Equipment Manufacturers
- Original Equipment Manufacturers (OEMs)
- Risk & Insurance Companies
- Law firms
- VPs/Directors/Heads of Strategy
- Heads of Generation/Gas/Power
- Heads of Technology
- General Managers
- Power Plant Managers
- Heads of Carbon Reduction/CCS Programmes
- Project Directors
- Heads of Procurement/Origination
- Heads of Business Development
- Heads of Supply/Trading
- Heads of Grid Development
- Economists/Analysts

Including:

- Law firms
- Risk & Insurance Companies
- Original Equipment Manufacturers (OEMs)
- Gas Turbine/Rotating Equipment Manufacturers
- Economists/Analysts

FUTURE EVENTS

Gas to Power Turkey 13 - 14 March 2013, Pera House, Istanbul

Multiple booking discounts:
- 25% discount for 2nd delegate
- 35% discount for 3rd delegate
- 50% discount for 4th delegate

Delegate details

Correspondence Address
Organisation ____________________________
Address ____________________________ Post code ________
Telephone ____________________________

Invoice Address (if different from above)
Surname ____________________________ Forename ____________________________
Job Title ____________________________ Department ____________________________
Organisation ____________________________ Address ____________________________ Post code ________
Telephone ____________________________ Email ____________________________

First Delegate
Surname ____________________________ Forename ____________________________
Job Title ____________________________ Department ____________________________
Organisation ____________________________ Address ____________________________ Post code ________
Telephone ____________________________ Email ____________________________
Dietary/Access requirements ____________________________

Second Delegate
Surname ____________________________ Forename ____________________________
Job Title ____________________________ Department ____________________________
Organisation ____________________________ Address ____________________________ Post code ________
Telephone ____________________________ Email ____________________________
Dietary/Access requirements ____________________________

Register by
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Email: narges@gastopowerjournal.com
Post: Gas To Power Journal, 2nd Floor, 8 Baltic Street East, London EC1Y 0UP, UK
Online: www.gastopowerjournal.com

No. of delegates

European Turbine Network (ETN) Members @ €700
Non ETN Members Standard Price @ €1199.00

Number Of Delegates

TOTAL COST £ __________
Cheque enclosed

Your Purchase order/Reference number ____________________________

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I have read the terms and conditions and understand the cancellation policy.
Signature ____________________________

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