

# O&M and Lifecycle Management Strategies for CCGT Power Plants

Maintaining Cost-Effective and Flexible Gas Fired Operations in Today's Market

May 15 - 17, 2018, Birmingham, UK



## Featured Speakers Include:

EDF Energy  
ESB International  
Gas Natural Fenosa  
Generacion  
InterGen  
Marchwood Power  
PKN Orlen  
Saudi Electricity  
Company  
Sloecentrale  
Uniper  
Vattenfall

## Themes for Discussion Include:

- » Implementing a capable and modern CCGT maintenance strategy
- » CCGT fleet optimisation
- » Priming your gas turbine fleet for sustained operational excellence - balancing cost, risk, and performance
- » Mothballing, preservation and return to operation
- » Electrical and mechanical Balance of Plant (BoP) requirements and considerations
- » OEM vs 3rd party vs self performance - risks, rewards and considerations



**Thomas Chapell**  
Conference Producer  
t.chapell@tacook.com



# Dear Colleague

In spite of wide-ranging challenges and a changing market, combined cycle gas turbine (CCGT) power plants still play a vital part in the energy grid. As a striking example of the essential role of CCGT power plants, 2018 once again saw CCGT plants secure the largest amount of awarded capacity for the UK market at 46% - highlighting its importance to the nation's energy supply. CCGT power plants still offer the most efficient and cost-effective energy solution, a pattern played out across Europe.

So how does the industry ensure it remains both competitive and profitable in the future?

T.A. Cook are delighted to announce that the 8th annual O&M and Lifecycle Management Strategies for CCGT Power Plants conference returns to Birmingham this May. Bringing the most comprehensive and in-depth analysis of the power generation market, this two day conference with pre-conference workshop has been designed to offer you an informative and engaging learning experience.

From plant O&M best practice to technical deep-dive sessions into the workings of gas turbines themselves and with international speakers joining from across the CCGT landscape, this event promises to widen your knowledge. Take away the latest sector insight, build a strong network of industry contacts, discuss and debate the challenges of the CCGT power market and utilise the collective knowledge of the conference to resolve your plant issues.

The evening of Wednesday 16th May has been reserved for an exclusive drinks reception, sponsored by Distran. This will be followed by an evening dinner for continued networking with fellow attendees, widening your circle of contacts and discuss conference content with like-minded people in a relaxed and informal atmosphere.

We look forward to seeing you this May with your team and colleagues, and make the most of this centre-piece event for the CCGT community.

**Thomas Chapell**

## Top 5 Reasons to Attend

- » 1. **End-user driven content.** The only dedicated forum in Europe driven by end-users and plant operators. Case studies are drawn from real-time stories within the industry
- » 2. **Learn and share.** Join our dedicated roundtable discussions and have your questions answered by experts, share your own experiences and help establish industry best practice
- » 3. **Undiluted face-to-face interaction** with industry leaders and experts. Meet with users, OEMs and third party service providers from Europe and beyond
- » 4. **Dedicated pre-conference workshop.** Join us before the conference for an interactive workshop focusing solely on service and maintenance of gas turbines. A unique learning environment with plenty to face time with experts.
- » 5. Become a member of a **growing international CCGT community.** Over the past 8 years, our CCGT O&M event series has brought together over 700+ attendees from across Europe, North America, Asia and the Middle East

## Who Should Attend

This event will bring combined cycle power plant owners and operators together to share and benchmark valuable information in the field of plant O&M, lifecycle management, and life extension. The event will be of interest to:

- » Plant Managers
- » Operations Managers
- » Maintenance Managers
- » Engineering Managers
- » Gas Turbine Engineering
- » Production Managers

The event will also be of interest to OEM and third party companies, who wish to learn about the current direction of the market, the contracting strategies of major operators, as well as gain insight into some of the challenges that operators are currently facing.

# Pre-Conference Workshop

Tuesday, 15 May 2018 (12:30-17:00)

## The New Gas Turbine Service Paradigm

Transforming Best Practices in An Age of Market Upheaval – Finding Profitable Operational Flexibility, Reliability & Life Extension Service Solutions to Achieve Desired Life-Cycle Maintenance Costs

Across Europe, the continued need for larger generation capacity and the increase of renewable energy production is having a dramatic effect on the traditional operational profiles of owners and operators of E and F-class combined cycle gas turbine power plants. Today, operators are struggling with maintaining their asset's profitability and relevance in a market now expecting them to compete with much higher efficiency combustion turbines and forcing them to offer increased flexibility and reliability with limited, attractive financial incentive to do so. Against this backdrop, maintenance service solutions that address these issues while offering improved plant operational economics is vital to their profitability.

Attendees of the workshop can expect an engaging and interactive session focused on topics including:

- The implementation of various technology-based gas turbine service offerings
- Advanced combustion system retrofits for operational flexibility
- Rotor lifetime assessments and extensions
- Rotor exchange programs including selective rotor wheel and disk manufacturing
- Hot gas path component repair improvements

Included in this interactive workshop will also be topics on select digital services such as self-learning combustion AutoTune system monitoring for improved reliability and a number of selectable GT control improvements that will be able to “trick out” your gas turbine power plant such as start-up time fuel consumption reductions and higher ramps rates.

Jeff Benoit, Vice President, Product Management & Marketing, Ansaldo Energia  
Leone Tessarini, Director Global Product Management , Ansaldo Energia Switzerland AG



# Day 1

Wednesday, 16 May 2018

<b>09:00</b>	<b>Chairman's Opening Remarks</b> Mark Faulkner, Former Power Plant Manager at InterGen and Independent Consultant	
<b>09:15</b>	<b>The Role of the Gas Generation Fleet in European Energy Transition</b> <ul style="list-style-type: none"> <li>» Understanding the EU energy transition challenges</li> <li>» How to make energy transition become a reality</li> <li>» The role of the CCGT Fleet in the Energy transition</li> <li>» How CCGT Plants can compete in the current market</li> </ul> Pedro Lopez Estebarez, Director of Operations CCGT, Uniper	
<b>10:00</b>	<b>A Changing Grid - The Challenges and Opportunities</b> <ul style="list-style-type: none"> <li>» A brief system history</li> <li>» Challenges of the modern grid</li> <li>» Opening the capabilities of CCGT plants to the market</li> </ul> Stuart Saint, Commercial and Contracts Lead, Marchwood Power Ltd.	
<b>10:45</b>	<b>Morning Refreshments</b>	
<b>11:30</b>	<b>Fast Start Up: Minimise Cost With an Efficient, Agile Start Up Operation</b> <ul style="list-style-type: none"> <li>» Warm and cold start best practice</li> <li>» Minimising the costs of machinery and assets in the plant without sacrificing HSE principles</li> <li>» Strategies to work 'on/off' to meet customer demand</li> <li>» Combining fast response battery electrical energy storage systems with CCGTs</li> <li>» Improving your start-up time</li> </ul> Steve Hoppe, Power Plant Operator, InterGen	
<b>12:15</b>	<b>Mothballing, Preservation and Return to Operation of Combined Cycle Power Plants</b> <ul style="list-style-type: none"> <li>» What are the reasons for preserving plants and key assets?</li> <li>» Following preservation, an analysis of the main parameters to check</li> <li>» Lesson learned from increased starts/stops when mothballing</li> <li>» Recommendations and knowing and where and when to preserve</li> </ul> Antonio Pérez Muñoz, Plant Manager, Gas Natural Fenosa Generacion	
<b>13:00</b>	<b>Networking Lunch</b>	
<b>14:00</b>	Take part in a range of round table discussion sessions hosted by subject matter experts. Move from topic to topic, and debate key challenges with your peers.	
	 <b>Round Table 1: Risk Management and Insurance</b>  What is your 'risk appetite' and what are the main perceived risks viewed in the current market? How can you decide what cover is required for your plant and where it must be applied? What are the risk considerations to take on board when it come to outsourcing O&M provision? This roundtable has been set up to deep-dive into the key issues and challenges around plant insurance and dealing with the ever present risks in your plant. Paul Markham, Risk Management Engineer, Liberty Special Markets	<b>Round Table 2: Adapting Your Gas Turbine for Flexible Operations</b>  Implementing upgrades on your gas turbine to keep pace with the latest technology and hte demads of a volatile energy market is essential to keep yourself competitive. How could digital solutions along with mechanical upgrades enhance your asset and what are the expectations from the end users? Join industry peers, as we discuss and work through these challenges with an interactive and highly engaging session. James O'Hagan, Head of Gas Product Line Sales, Siemens UK
<b>14:30</b>	<b>Round Tables Discussions Repeat</b>	
<b>15:00</b>	<b>Afternoon Refreshments</b>	



#### Evening Event

Join us for an evening drinks reception to network with your peers



#### Roundtable Discussions

Discuss with others the challenges, and trends in the CCGT market, picking up valuable real life insight



#### Q&A Panel

Take part in a Q&A session with our expert panel

# Day 1

Wednesday, 16 May 2018

- 
- 15:45**      **Electrical and Mechanical Balance of Plant (BoP) Requirements and Considerations**
- » Ensuring your BoP systems are prepared for new duty cycles
  - » Preparing for all load scenarios, improved control response for more rapid load changes, and automating for more rapid start-ups
  - » Using BoP for as a driver for energy efficiency, plant reliability and emission reductions
  - » Analysing the impact of gas turbine upgrades on BoP
- Tomasz Jakubowski, CCGT Power Plant Director, PKN Orlen
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- 16:30**      **Innovative Technology for Installed Gas Turbine Power Plants in a Renewable Energy World**
- » Overview of current and future market conditions
  - » Utilising data for improved operational efficiency
  - » Reliability benchmarking and thermal performance data
  - » Capturing expended life of individual parts for life management and outage planning
- Peter Stuttaford, CEO, Ansaldo Thomassen  
Jeff Benoit, Vice President - Product Management & Marketing, Ansaldo Energia  
Theo de Bruijne, Maintenance Manager, AES Ltd.
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**17:00**      **Networking Drinks Reception in the Exhibition, Hosted by Distran**

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**18:30**       **Depart for Evening Networking Event**

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## Evening Drinks Reception



Join us after the conference closes at the end of day one for a relaxing evening prepared for you to meet and interact with the other conference delegates.

**Sponsored by Distran**, we will commence from 16.30 with a drinks reception take the opportunity to grow your personal network, make lasting contacts, discuss conference content and industry trends and be part of the CCGT community.

Following the drinks reception, we will depart for evening dinner at Miyako Teppanyaki. Details of the restaurant can be found on the website, or consult a member of staff on site for more information.



# Day 2

Thursday, 17 May 2018

<b>09:00</b>	<b>Chairman's Opening Remarks and Welcome Back</b> Mark Faulkner, Former Power Plant Manager at InterGen and Independent Consultant	
<b>09:05</b>	<b>Value Based Maintenance Implementation in Saudi Electricity Company</b> <ul style="list-style-type: none"> <li>» What is value based maintenance (VBM)?</li> <li>» VBM pathway</li> <li>» VBM equation</li> <li>» VBM training and operation model</li> <li>» Data analysis and visualisation of the maintenance data</li> <li>» VBM achievement</li> </ul> Eng Kamal Alrefai, Quality and Performance Division Manager, Saudi Electric Company	
<b>09:50</b>	<b>Modern Approaches to Gas Turbine Maintenance</b> <ul style="list-style-type: none"> <li>» Looking for key considerations and signs of gas turbine ageing</li> <li>» Minimising asset degradation as a result of ageing</li> <li>» Advanced combined cycle turbines: combining gas turbines from various OEMs</li> <li>» Is 'mobile' asset management the next major consideration for gas turbines?</li> </ul> Moshin el-Moussaoui, Asset Manager, ESB International	
<b>10:35</b>	<b>Morning Refreshments</b>	
<b>11:15</b>	<b>Dealing With a Challenging Market Environment with Successful Power Increase in a Combined Cycle Power Plant</b> <ul style="list-style-type: none"> <li>» Russian energy market - specific boundary conditions</li> <li>» Siemens SGT5-4000F(4) to (8) modernization - key aspects</li> <li>» Yaiva outage implementation specifics – success factors</li> <li>» Closing notes, summary &amp; outlook – creating value</li> </ul> Aleksandr Novikov, Head of Department for CCGT Operations, Repair and Maintenance, Unipro Russia Rene Koenig, Head of Service Operations, Siemens Gas Turbine Technologies	
<b>12:00</b>	 <b>Round Table Discussions</b> Take part in a range of round table discussion sessions hosted by subject matter experts. Move from topic to topic, and debate key challenges with your peers.	
	<b>Round Table 1: Digital Technology and Your CCGT Power Plant</b>  A flexible CCGT plant is demanded by today's power generation market as both external and internal pressures intensify, how - and what - technology can offer you solutions to remain competitive? Fast start-up technology, predictive/digital maintenance enablers and embedded turbine sensor technology are just some of the ideas we will be discussing. Jeff Benoit, Vice President - Product Management & Marketing, Ansaldo Energia Peter Stuttaford, CEO, Ansaldo Thomassen	<b>Round Table 2: Re-Engineering and Third Party Maintenance Contracts</b>  Join this discussion group to analyse the impact and offerings of third party solution providers. We will consider OEM's work in the CCGT market and offer you the chance to speak directly to the providers. We will look at aspects such as; decreasing cost and managing risk, taking control of your own maintenance and re-engineering capabilities. Andrew Lutz, Area Sales Manager, PW Power Systems
<b>12:30</b>	<b>Round Tables Discussions Repeat</b>	
<b>13:00</b>	<b>Networking Lunch</b>	
<b>14:00</b>	<b>The Hydrogen Hoax and CCGT's Continuing Success</b> <ul style="list-style-type: none"> <li>» A brief analysis of plans to replace existing natural gas networks with hydrogen</li> <li>» Existing issues when switching from low calorific to high calorific gas</li> </ul> Chris Lappee, Engineering and Technology Manager, Vattenfall	

# Day 2

Thursday, 17 May 2018

14:45

## eMonitoring – Support for Thermal Power Plants

- » Enhancing unit performance and availability from remote monitoring
- » Quick and simple analysis of the plant data
- » Detection and diagnosis of performance losses
- » The optimisation of your maintenance programme

Erwan Creuzé, Process and eMonitoring Engineer, EDF Energy

Jenny Cowan, Performance Engineer, EDF Energy - West Burton B CCGT

15:30

## Chairman's Closing Remarks Close of Conference

# Join our Community

The O&M and Lifecycle Management Strategies for CCGT Power Plants conference has been running for nearly a decade, bringing the industry together and forming a close knit community and network of support and information. Join us on LinkedIn and Twitter.

#ccgtconf



T.A. Cook  
CONFERENCES

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## Ansaldo Energia Group

Ansaldo Energia Group is a leading international player in the power generation industry. It is a full-cycle, integrated operator, with the capabilities to build turnkey power plants on green field sites using its own technology and its own independent design, production, construction and commissioning resources. Additionally, Ansaldo Energia has the broadest portfolio of service capability, including performance upgrades focused on increased output and efficiency, for all major OEM technologies, bringing the most flexible and reliable solutions to serve their customer's needs. With an integrated yet global engineering team and a localized regional sales organization setup, Ansaldo works as your one-source solution provider on gas turbines, steam turbines and generator equipment for all leading technologies.

For more information, please visit: [www.ansaldoenergia.com](http://www.ansaldoenergia.com)

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**PW Power Systems**

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## PW Power Systems, Inc

PW Power Systems, Inc. (PWPS), a group company of Mitsubishi Heavy Industries, Ltd. is committed to providing high-quality solutions for the distributed energy market that increase energy productivity, energy reliability, and operational savings for its customers.

PW Power Systems is a world leader in developing and manufacturing energy solutions for power generation offering products for aero-derivative and industrial gas turbines. PWPS has more than 2,000 industrial gas turbines installed in over 50 countries worldwide and prides itself on being superior in the gas turbine repair and overhaul sector. PWPS offers competitive, efficient, and flexible products at 30 MW to 140 MW of power for gas turbine packages. PWPS offers a full range of maintenance, overhaul, repair and spare parts for other manufacturers' gas turbines with specific concentration on the high-temperature "F" class industrial machines

For more information, please visit: [www.pwps.com](http://www.pwps.com)

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**SIEMENS**

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## Siemens AG

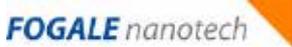
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For more information, please visit: [www.siemens.com](http://www.siemens.com)

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# Exhibitor



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## FOGALE nanotech

FOGALE nanotech, an engineering company created in 1983, is now a worldwide known reference in the field of high accuracy dimensional metrology. Thanks to our multidisciplinary team with expertise in capacitive, optical, inductive and ultrasonic metrology and a strong scientific background, we provide standard and customized systems adapted to your implementation and utilization constraints. Our standard products and our engineering know-how are acknowledged in the most demanding fields of industry and laboratories (e.g. automotive, defense, aeronautics, nuclear industry) in Europe, USA and Asia.

Fogale nanotech Turbomachinery Measurements department proposes a cost effective turnkey solution for turbomachinery blade testing and monitoring. Based on capacitive technology, with sensors from low temperatures (<200°C/392°F) for static and dynamic measurements, up to high temperature harsh environment turbine applications, up to 1300°C (2372°F) gas temperature without cooling, with conditioning electronics MC925 for capacitive sensors, and with acquisition and processing server, the Capablade Fusion system enables Blade Health Monitoring in real-time thru Blade Tip Clearance measurements and Blade Tip Timing measurements (non-intrusive blade vibrations measurement Technique). The advantages of the Blade Health Monitoring are the prevention of costly breakdown by monitoring the safe operation of the machine, utilization of the machine at best performance with use of active clearance control, and reduction of downtime costs with the predictive maintenance made possible thanks to the blade mechanical integrity data collected during operation. The consequence is a significant extension of the GT operability and per se a significant return on plant assets.

For more information, please visit: [www.fogale.com](http://www.fogale.com)

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## Sulzer

Sulzer, headquartered in Winterthur, Switzerland, since 1834, is specialized in pumping solutions, rotating equipment maintenance and services as well as separation, reaction, and mixing technology. Sulzer provides cutting-edge electro & mechanical maintenance and service solutions for rotating equipment dedicated to improving customers' processes and business performance. When pumps, turbines, compressors, generators, and motors are essential to operations, Sulzer offers technically advanced and innovative solutions. Besides maintenance, repairs and Engineering services, we also supply capital replacement parts for a wide variety of equipment.

For more information, please visit: <https://www.sulzer.com/>

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# Evening Drinks Sponsor



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The detector has been successfully used in more than 30 power plants around the world, where it detected leaks that, if unnoticed, would trigger to a plant shutdown. Inspections were conducted in various power plants including coal, combined-cycle and nuclear power plants, and in all parts of the plants, such as in the gas turbine enclosure, on the HSRG, on hydrogen-cooled generator, compressed air system, in the steam turbine enclosure, and most of the ancillary equipments (BoP).

For more information, please visit: [www.distran.ch](http://www.distran.ch)

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Power Gen Advancement is a leading information-centric website providing latest up to date information and happenings within the industry. The website is sub divided into 3 sectors updating the latest news and developments about Power Generation industry through Renewable Energy, Nuclear Energy, Thermal Energy sources. Power Gen Advancement runs with an objective to provide a one stop knowledge driven content to our reader and subscribers in various forms like news, projects, upcoming events.

For more information, please visit: [www.powergenadvancement.com](http://www.powergenadvancement.com)

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## **Modern Power Systems**

Established for 40 years, Modern Power Systems is a recognised International authority throughout the world of electricity generation, transmission and distribution. With an impressive print circulation of 11,750 senior engineers and specifiers across 120 countries plus 8,000 digital subscribers, the publication is edited by the highly-respected industry expert, James Varley. Covering all fuel types (Renewables, Gas, Biomass, Nuclear, Gas and Coal) ranging from large centralised power stations to distributed generation in micro-combined heat and power units, Modern Power Systems is renowned for reporting and analysing the latest industry news and developments. In addition to the monthly publication, the product range includes the annual Turbine Technology Directory and a comprehensive selection of digital marketing opportunities.

For more information, please visit: [www.modernpowersystems.com](http://www.modernpowersystems.com)

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# O&M and Lifecycle Management Strategies for CCGT Power Plants

Maintaining Cost-Effective and Flexible Gas Fired Operations in Today's Market

15 - 17 May, 2018, Birmingham, UK

Main contact for this booking \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

Country \_\_\_\_\_

Invoice Address (if different from above) \_\_\_\_\_

P.O. No. (if applicable) \_\_\_\_\_

Postcode \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

Signature \_\_\_\_\_

## Delegate 1 - I will attend

- Pre-Conference Workshop (12:30 - 17:00, 15 May)  
 Conference (16 - 17 May)

Full name \_\_\_\_\_

Job Title \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

## Delegate 2 - I will attend

- Pre-Conference Workshop (12:30 - 17:00, 15 May)  
 Conference (16 - 17 May)

Full name \_\_\_\_\_

Job Title \_\_\_\_\_

Telephone \_\_\_\_\_

Email \_\_\_\_\_

VAT number 781 4957 88

To register for this event please fax this registration form or visit our event website

Fax: +44 (0) 121 212 1623

 [www.tacook.com/ccgt](http://www.tacook.com/ccgt)

## Registration and Contact Office

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Birmingham, B4 7LR, UK  
T: +44 (0) 121 200 3810

E: [info@tacook.com](mailto:info@tacook.com)

Registered in England and Wales

Company Registration Number: 4263656

## Contact

Charlotte Roden  
c.rod@tacook.com  
+44 (0) 121 200 3810



## Venue

### The Birmingham Conference and Events Centre

Birmingham City Centre, Hill Street  
Birmingham B5 4EW. UK  
Tel: +44 (0) 121 634 6211

## Early Bird Discount:

Valid for registration and payment by March 23rd, 2018

### Operators:

Cost of Workshop..... £ 350\*  
Conference Early Bird ..... £ 999\*  
Conference Standard ..... £1,099\*

### Service Providers:

Cost of Workshop..... £ 350\*  
Conference Early Bird ..... £ 1,099\*  
Conference Standard ..... £ 1,299\*

\*20% VAT will be applied to fees

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**Payment** Participation in an event is only possible if payment has already been received, or if it is submitted at the event via credit card payment or bankers draft/cheque. Please note that non-attendance for any reason is subject to the cancellation terms laid out above.

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- (2) The place of jurisdiction is Berlin.
- (3) The place of performance is Berlin, or in case of consulting projects the agreed location, and with regard to events the announced event location.

I accept the terms and conditions