

# CCGT O&M Forum

Remaining Competitive, Agile and Flexible in the Modern Energy Market

12 – 13 June 2019, Birmingham, UK



## Operators Case Studies Include:

ACWA Power  
Bilgin Enerji  
Centrica  
EDF Energy  
E.ON  
InterGen  
Uniper  
Saudi Electricity Company  
Sloecentrale

## Future-Proof Your Plant and Fleet Operations and Compete in Today's Market

- » **Pick up previously unknown insight and information** from leading operators from around the world
- » **Benchmark your current operation** against other CCGT operators and assess where improvements can be made and take-away practical insight
- » **See the latest solutions, services and technology** on offer to enhance CCGT plant operations within the conference exhibition
- » **Answer your questions and air your comments** in expert-led discussion groups, utilising the collective knowledge and experiences of fellow attendees
- » **Network with peers and colleagues** and build up long-lasting connections
- » **Align your own O&M strategy** - whether it's in-house, OEM led, or utilising 3rd party support

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# Dear Colleague

The European generation market has been through a period of turbulence. Amidst this challenging backdrop, the 9th annual **CCGT O&M Forum** is your opportunity to future proof your fleet, plant and gas turbine O&M strategy.

While CCGT power plants offer a compelling, efficient and cost-effective capacity solution in an evolving energy mix, it is imperative that operators and owners ensure robust performance, reliability and availability. Assets must be cost effective to remain competitive in today's market.

Over the course of two days in Birmingham, the CCGT O&M Forum will equip you with the latest insight from international CCGT power plant operators. Can you achieve successful and efficient ramp-up in times of peak demand? Is it possible to implement certain aspects of turbine strategy in-house, whilst maximising the relationship with the OEM? Where can significant savings be made to try and achieve "asset sweat"? Can best practice be transferred from other industries, such as nuclear?

Real life case studies will be complimented with the opportunity to debate and share experience in interactive group sessions, discussion rounds, a leadership panel, and informally during networking sessions and at our evening event.

In its 9 year history, the CCGT O&M series has attracted over 800 attendees internationally. It really is the leading event of its kind - open, interactive, international, and operationally focused.

We look forward to welcoming you and your team to Birmingham.

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



**Thomas Chapell**

## Event Features Include:



- » **Operator 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
- » **Take part in interactive content.** Join our dedicated Focus Groups, Campfire Chats and CCGT leadership panel. Put your comments forward and make use of our interactive live polling app that will enable you to drive the content and discussion
- » **Explore the exhibition.** Meet with OEMs and third party service providers with the services and solutions that can help evolve your operation
- » **Networking opportunities.** Become a member of a growing international CCGT community. Over the past 9 years, our CCGT O&M event series has brought together over 800+ 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:

- » Fleet and Generation Portfolio Leadership
- » 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.



# Additional Event Features

Alongside the operator-led case study presentations, networking, exhibition and a relaxing evening event, the 2019 conference will include some exciting new features!

## Live Polling



Keep a track of people's thoughts and opinions in real-time! With our easy to use, interactive polling software, you can drive the content and join in with your opinions.

## Focus Groups



Choose from one of two dedicated Focus Groups and work with the expert hosts to come up with solutions and answers to the big questions posed. Then reconvene with the entire conference to reveal the findings in a dedicated feedback session.

## Leadership Panel



We will be inviting CCGT portfolio leaders who will share their challenges, ideas and thoughts on the future in an open and interactive environment. Take part in the debate and put your own questions to the panel

## Campfire Chats

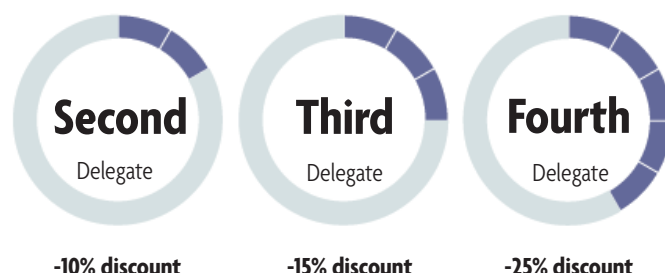


After a brief scene-setting presentation from our OEM hosts, discuss the issues and challenges that you believe are most severe and put your comments and questions directly to the OEMs themselves.

## Looking to bring along the team? Check out the group discounts

Spread the learning and insight across your entire CCGT operation and bring along your colleagues to the CCGT O&M Forum. Interested in bringing your team to the conference? If so, your second delegate will receive a 10% discount and your third a 15% discount. For a group of four, the entire group will receive a 25% discount each - that's four for the price of three!

To take advantage of a group discount, your group must all register on the same day and with the same invoicing details. Please note the group offers relate to the conference pass only and not to any pre-conference workshops.



-10% discount

-15% discount

-25% discount

# Day 1

Wednesday, 12 June 2019

08:30		<b>Morning Coffee and Registration</b> <b>"Click and Connect Photo Wall"</b> Have your picture snapped and add your business card to aid networking and make new business contacts
09:00		<b>Chairman Welcome and Conference Introduction</b> Mark Faulkner, Former Power Plant Manager at InterGen and Independent Consultant
09:10		<b>Know Your Neighbour!</b> Meet your fellow attendees, find out where they are from and discuss the key topics you are looking to hear covered over the course of the next two days
09:20		<b>Improving CCGT Plant Self-Reliance With an In-House O&amp;M Strategy</b> <ul style="list-style-type: none"> <li>» Using plant resources (internal and external) instead of OEM services</li> <li>» When is it necessary to bring in external O&amp;M services?</li> <li>» Comparing the consultants view vs. the plant engineers view</li> <li>» Identifying simple operational adjustments that can be implemented internally</li> <li>» Reviewing alternative and more sophisticated aftermarket solutions</li> </ul> Andy Morris, Chief Mechanical Engineer, EDF Energy
10:00		<b>CCGT Fleet Management Perspective – Ensuring Performance, Reliability and Availability Across the Fleet</b> <ul style="list-style-type: none"> <li>» An introduction to the entire fleet</li> <li>» Our O&amp;M philosophy</li> <li>» How are we responding to challenges in the modern energy market?</li> <li>» Maximising the value of the CCGT portfolio by an efficient use of assets across the fleet</li> <li>» The importance of continuous innovation within power plants</li> <li>» Can new technology safeguard CCGT operations?</li> </ul> Korkut Ozturkmen, Board Member and General Manager, Bilgin Enerji (formerly OMV)
10:40		<b>Morning Networking Break</b>
11:30		<b>Flexibility and Reliability at Sloecentrale: An Independent Operator's View</b> <ul style="list-style-type: none"> <li>» Expanding the lifecycle of individual parts and assets with digital tools</li> <li>» An analysis of Sloecentrale's 10 year commercial operation – remaining competitive in the current market</li> <li>» CCGT performance and flexibility (results and improvements)</li> <li>» E-Monitoring; evaluating CCGT status in real-time</li> <li>» Balancing CCGT operations with plant maintenance</li> <li>» Outage optimization and execution</li> </ul> Martin Jongepier, Plant Manager, Sloecentrale
12:10		<b>Enhanced Collaboration Between O&amp;M and Commercial Teams</b> <ul style="list-style-type: none"> <li>» Developing daily dispatch operations</li> <li>» Understanding the expectations of both teams</li> <li>» What is the decision criteria on commercial side?</li> <li>» Building a "Fuel Demand Model" and relaying data to plant operators</li> <li>» Maintenance planning – can commercial teams propose maintenance dates?</li> </ul> Bariscan Barin, CCGT Portfolio Manager, ACWA Power
12:50		<b>Presentation Analysis</b> Take the opportunity to ask questions and comment on the presentations from the morning sessions. Address these points and more in a brief wrap-up session before lunch. Notes from the session will be collected and presented in post-event report. You will also have the opportunity to take part in some live, real-time polling to debate the issues

# Day 1

Wednesday, 12 June 2019

13:00

## Networking Lunch

14:00



## Focus Groups

Join a structured group session hosted by subject matter experts. Attendees will have the opportunity to tackle the two biggest challenges and issues as uncovered during our pre-event research. Following each team's discussion, both focus groups will reconvene to share their findings of how to face these challenges in the modern energy market.

### Group One: Negotiating LTSA's with OEMs During Uncertain Times

Changing conditions in the energy market are leading to new developments for CCGT's power plants in different European countries, impacting the OEM, third party provider and operator. Contract management and business relationships are changing as a result.

Host: Petr Krejci, Strategy and Business Development, CEZ

### Group Two: Preparing Your CCGT Operation to Deal With New Competition

Renewable energy and alternative fuels are now an established part of the European energy grid. So where do CCGT plants fit in? With enhanced operational flexibility and agility, CCGT plants can adjust to continue offering excellent economic value. Join this discussion to see how and where you can prepare for the "renewable challenge".

Host: Chris Lappee, Independent Consultant

15:00

## Afternoon Networking Break

15:30

### An Overview of Uniper's Risk-Managed Approach to Gas Turbine Fleet Lifecycle Extension

- » Overview of Uniper's risk evaluation and mitigation process
- » Influence of component knowledge on risk evaluation
- » Risk mitigation measures; pre-campaign and during interval extension
- » Value of post-campaign knowledge acquisition
- » Unit to unit variability

Tom Scanlon, Team Leader - Gas Turbines and Auxiliary Components, Uniper

16:10

### Adapting a Power Plant to Cope With Flexible Market Conditions

- » Application of Siemens OEM products to improve maintainability
- » Plant performance - either overall efficiency and/or power
- » Assessing the environmental impact (NOx-reduction, higher efficiency in part load)
- » Overall flexibility of the plant

James O'Hagan, Head of Gas Product Line Sales, Siemens | Operator Case Study to be Announced

16:50

### Utilising Data Visualisation to Empower Your Value Based Maintenance Approach

- » What does value based maintenance (VBM) mean to SEC?
- » Building a maintenance strategy that will improve the contribution of the asset to increase profit
- » Maintenance data visualisation using business intelligent solutions for analysis
- » Analysing the outcome of using a VBM strategy and its achievements

Eng Kamal al-Refai, Generation Optimization Center (GOC) Lead, Saudi Electric Company

17:30

## Chairman's Day One Closing Remarks

18:00

## Evening Reception



## Evening Event



After the end of Day One, relax and network in an informal setting with your colleagues, peers and fellow attendees at our evening event.

Take the opportunity to expand your personal contact base and discuss the content covered at the conference. Catch up with old friends, meet new people and join the CCGT community!



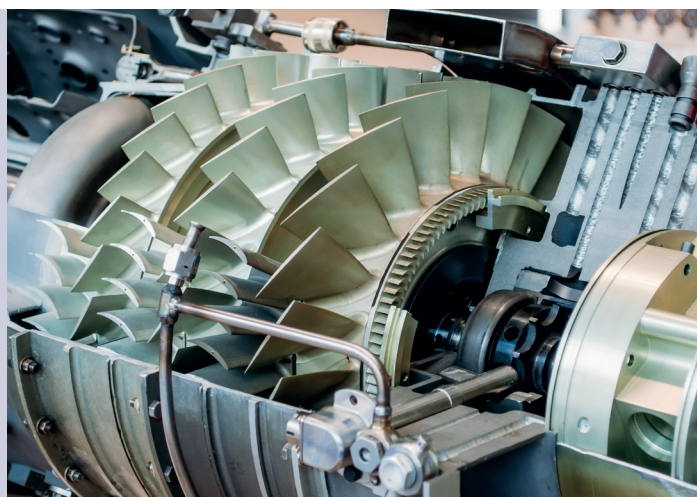
# Day 2

Thursday 13 June, 2019

08:30	<b>Morning Coffee and Registration</b>
09:00	<b>Chairman's Welcome Back and Day One Reminder</b> Mark Faulkner, Former Power Plant Manager at InterGen and Independent Consultant
09:10	 <b>CCGT O&amp;M and Performance Leadership Panel</b> Day Two will commence with a leadership panel taking questions and comments from the audience. Put your questions to our panel and take part in live, real-time polling to debate the issues Host: Mark Faulkner, Former Power Plant Manager at InterGen and Independent Consultant Panellist: Panellists to be Confirmed
09:40	<b>West Burton B Case Study: Transferring Good Operational Practice From Nuclear into CCGT Plants</b> » An introduction to operationally focused processes, practices and standards, in a pragmatic way into West Burton B » Analysing the 5 operational focuses and priorities: » Work management (doing work when you need to) » Decision making (short, medium and long term) » Equipment reliability » Managing unexpected or adverse situations » Understanding the behaviours that underpin excellence in operational focus » The transferable processes from the nuclear industry Brian Matthews, Head of Operational Improvement, EDF Energy
10:20	<b>Kings Lynn Case Study: Replanting After Long-Term Preservation</b> » Challenges replanting after 6 years of preservation » What new lessons have been learned from the project and the pitfalls to avoid » Working with idle assets and bringing old turbines back on-line » Incorporating new and old equipment to the plant James Eyton, Maintenance and Engineering Manager, Centrica
11:00	 <b>Morning Networking Break</b>
11:30	<b>Campfire Group Chats</b> Co-create content with industry experts in a campfire format. Share stories to uncover people's knowledge and stimulate peer-to-peer learning. A short scene-setting presentation will be followed by an open discussion.

## Join our Community!

The CCGT O&M Forum 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](#).





# Day 2

Thursday 13 June, 2019



## Session One: Tomorrow's CCGT World

How do we prepare for such changes? How can you ensure your place in the market? How can you stay competitive in a globalised energy market? Siemens have developed an understanding and strategy to assist its customers and clients in this preparation. However what do you the operators and wider audience believe? We want to know what your thoughts are and where greater OEM – operator collaboration can benefit all parties.

James O'Hagan, Head of Gas Product Line Sales, Siemens

## Session Two: Capacity Market Analysis and Changing Impact

2019 has proved to be a pivotal year for the Capacity Market. Pick up the latest insight and analyse. Review the UK capacity mechanism design - is it fit for purpose? Look at the interconnection, the UK capacity mechanism and beyond. Look into reinstatement of equipment post preservation

[Host to be Confirmed](#)

12:30

## Networking Lunch

13:30

## Interactive Polling! Your Turn to Drive the Content

During this live polling session, you and the rest of the audience will have the opportunity to steer the content of the agenda for the next hour. Take the chance to input directly, commenting and discussing on topics raised through our live polling app!

14:30

## Afternoon Break

15:00

## Digital Gas Turbine Combustion Tuning Solution for Power Plant Operators

- » As the European energy market changes rapidly with the vast adoption of renewables, the CCGT industry is demanding more operational flexibility
- » Building the case for automated tuning systems which has become more evident in the Industrial Gas Turbine (IGT) market since the mid-2000's
- » Dealing with more stringent emissions limits with higher combustion dynamics
- » Reducing maintenance costs to maintain profitability in CCGT power plants
- » Alternative fuel combustion offerings and the potential of a low cost energy source for power generation
- » How AutoTune systems allow for; increased peak power, extended turndown and transient tuning

[Leone Tessarini, Director Global Product Management, Ansaldo Energia Switzerland AG | Ansaldo Customer Case Study to be Announced](#)

15:40

## Case Study: "Island Mode Power Supply": Utilising Small-Scale Gas Turbines at an Industrial Park

- » Introduction to DEGA industrial park and its power plant, Noginsk Energy Center
- » Small-scale gas turbines in a cogeneration system and outage specifics
- » LTSA: the right solution to improve availability and reliability
- » Operating cost reduction, important staff training and other benefits of LTSA
- » A look at some of the digital solutions applied by OEM
- » Specifically the InSight™ digital platform
- » A brief look at the sustainability topic: excessive waste heat conversion to cooling capacity

[Petr Konovalov, O&M Director, E.ON Russia](#)

16:20

## Minimising Risk and Maximising Safety of Your CCGT High Pressure Gas Pipeline

- » History of the gas pipeline and current applicable standards
- » Operation and maintenance requirements
- » Essential test and inspections
- » Emergency preparedness

[Syed Ali, Engineering Manager, InterGen](#)

17:00

## Chairman's Closing Remarks



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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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## Siemens

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is No. 1 in offshore wind turbine construction, a leading supplier of gas and steam turbines for power generation, a major provider of power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry.

The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2015, which ended on September 30, 2015, Siemens generated revenue of €75.6 billion and net income of €7.4 billion. At the end of September 2015, the company had around 348,000 employees worldwide.

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

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# Bronze Sponsor



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## MD&A

Mechanical Dynamics & Analysis (MD&A) provides power generators around the globe with a full-service, OEM-alternative for services, parts, and repairs for Gas Turbines, Steam Turbines and Generators. In our 35 years, our commitment to excellence has earned customer trust for all turbine-generator needs. We focus on delivering consistent quality and value with fast response, superior communications, and innovative solutions. Around the corner or around the globe, we ensure prompt, thorough communication and follow-through. For every repair job, large or small, the speed and effectiveness of our response team is matched only by the depth and breadth of our engineering expertise.

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

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# Bronze Sponsor



## **Inpirio**

Inpirio® is an innovative engineering company with a focus on power generation technology. The company is headquartered in Switzerland with production & engineering facilities in northern Croatia. Inpirio® specializes in manufacturing and mechanical engineering, cold and hot forming, welding and machining of super-alloys, high alloy steels and steel constructions with main focus on production of combustion chambers and other hot gas path components for power generation gas turbines.

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

# Media Partner



## **The Energy Industries Council**

The Energy Industries Council (EIC) is the leading trade association for companies that supply goods and services to the energy industries worldwide. Our members include major international contractors and manufacturers through to more specialised product and service companies.

EICDataStream, is available to members through secure log-in via the website. The database provides detailed development and contracting information on over 8,000 projects worldwide and 16,000 archived projects while our Operations & Maintenance database EICAssetMap maps all major operational energy facilities in the UK and Norway. Combined they cover the full lifecycle of projects from design, through to start-up, operation and decommissioning.

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

# CCGT O&M Forum

Remaining Agile, Flexible and Competitive in the Modern Energy Market

12 – 13 June 2019, 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

Full name

Job Title

Telephone

Email

☐ I would like to receive Information and updates relevant to my field of interest

☐ I am happy to share my details with the event's sponsors and exhibitors  
(Name, Job Title, Company Name & Country only)

☐ I accept the terms and conditions

## Delegate 2

Full name

Job Title

Telephone

Email

## Further Information

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(Name, Job Title, Company Name, Country, Phone Number, Email Address)

☐ I accept the terms and conditions

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

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

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T.A. Cook Conferences

4th Floor, McLaren Building

46 The Priory Queensway

Birmingham, B4 7LR, UK

T: +44 (0) 121 200 3810

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

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Company Registration Number: 4263656

## Contact

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

+44 (0) 121 200 3810

## Venue

### Crowne Plaza

Central Square, Holliday St.

Birmingham, UK, B1 1HH

Tel: +44 (0) 121 224 5000

## Early Bird Discount:

Valid for registration and payment by April 5th, 2019

Cost of Conference..... £1,099\*

## Standard Fee:

Cost of Conference..... £1,199\*

\*21% VAT will be applied to fees

## Terms and Conditions

**Registration Cancellation and Substitutions.** Cancellations must be made in writing at least two weeks before the beginning of the event. In this case we will charge a processing fee of £175.00, £200.00 or £250.00 dependent on the currency of the event that you have registered for. Cancellations received less than two weeks before the event will be liable for the full registration fee. This also applies to registrants who do not attend the event. If a participant cannot attend for whatever reason, it is of course possible to nominate a substitution. Substitutions must be received in writing, must be addressed to the registration office and must include the names of both the original and the substitute registrants. We reserve the right to cancel your registration or refuse access to the event.

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(1) The law of the Federal Republic of Germany is solely applicable. Application of the UN Convention on Contracts is expressly excluded.

(2) The place of jurisdiction is Berlin.

(3) The place of performance is the announced event location and with regard to events the announced event location.

### Video and Photography

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