



# POWER PLANT MAINTENANCE & OUTAGE MANAGEMENT ASIA 2012

29th-31st August 2012  
Singapore

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## Technological and Process Innovation to Optimise Outage Performance and Overcome Efficiency Challenges

- Discovering new means to execute successful outages
- Benchmarking outage planning and scheduling strategies against other leading utilities and power plants in the region
- Learning new approaches to risk assessment and risk based inspections
- Pinpointing key challenges in increasing operational efficiency
- Benefitting from the latest insights into good maintenance practice and how to successfully integrate outage plans
- Finding out how to overcome unexpected problems during outage operations within H&S parameters
- Exploiting the value of your relationships with contractors and OEMs
- Developing cost effective and market responsive operational strategies

Interactive half day workshop:

### Thermodynamic Performance Monitoring for Maintenance Planning to Ensure Plant Performance and Energy Efficiency

Led by:

**Norman Lee**

Principal Consultant, MD and Founder

**Actsys Process Management Consultants Pte Ltd**

Key Speakers Include:

**Stewart Andrew McWilliams**

Vice President, Asset Management  
**Senoko Energy Pte Ltd**

**Ashok Kumar**

Operations Manager  
**Al Ezzel O&M Company, GDF Suez**

**Mr. Lam**

Electrical Engineering Technical Division  
**The Institute of Engineers, Malaysia**

**Vincent Ho**

Chairman  
**Hong Kong Association of Risk Management and Safety**

**Prabir Majumdar**

Director of Operations and Maintenance  
**Lanco International Pte Ltd.**

**Prof. Pichai Aree**

Faculty of Engineering  
**Thammasat University, Thailand**

**Dr. Alex Smillie**

Vice President, Geothermal Operations  
**PT Star Energy**

**Dr. Hooman Peimani**

Principal Fellow and Head, Energy Security Division  
**Energy Study Institute, University of Singapore**

Event Sponsors

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## Cut outage time and limit budget expenditure through optimised maintenance

Planned Outages, Shutdowns and Turnarounds are the most significant activities that appear on the calendar of a Power Plant, Refinery or Chemical Plants – with the single exception perhaps of very large construction projects.

Proper planning, scheduling and management of Outages are essential to plant efficiency, asset integrity, cost cutting, safety and quality standards. Planning and preparation must be an on-going activity that should have attention and resources allocated at all times. All this is achievable only with the right shutdown planning models and strong execution strategies.

At Eventful Power Ltd. we have undertaken extensive research with the industry to discover what power plants and operators really need to learn about STOs. The result is a technical, industry-led conference that places a premium on case-study analysis and allows attendees to benchmark their practices. Senior Power Plant Managers and Outages Experts will be discussing crucial information relating to acquiring and maintaining the skilled workforce and manpower, efficient planning and scheduling of STOs, and cost and time effective techniques to executing planned and unplanned outages.

## Created by the industry for the industry

Eventful Power's advisory boards, composed of some of the industry's leading representatives, help shape the conference agenda. Together with face-to-face and telephone research, we have drawn upon this invaluable resource to deliver a conference that truly is shaped by the industry, for the industry.

## Members of the Power Plant Maintenance and Outages Management 2012 Advisory Board include:

Tuas Power, EGAT, Tarong Energy, SN Power, Nuclear Power Corporation of India, Sarawak Energy, Chiang Mai University, China Light and Power, Lloyd's Register, The University of Singapore, Kepner Tregoe, Alstom Power, National Power Corporation, KEPCO Ilijan...

## Meet senior decision makers from amongst Asia's leading utility firms and power plants:

Group Managers, VPs, Director, Managers of:

- Power Plant
- Power Generation
- Outages
- Shutdown and Turnaround
- Maintenance
- Operations
- Engineering
- Health and Safety
- Asset Management

From the leading power plants and power utilities in Asia

## Our leading panel of speakers:

**Stewart Andrew McWilliams**

Vice President Asset Management  
**Senoko Energy Pte Ltd, Singapore**

**Vincent Ho**

Chairman  
**Hong Kong Association of Risk Management and Safety, Hong Kong**

**Dr. Alex Smillie**

Vice President of Geothermal Operations  
**PT Star Energy, Indonesia**

**Ashok Kumar**

Operations Manager  
**Al Ezzel O&M Company, GDF Suez, Kingdom of Bahrain**

**Prabir Majumdar**

Director of Operations and Maintenance  
**Lanco International Pte Ltd., India**

**Dr. Hooman Peimani**

Principal Fellow and Head Energy Security Division  
**Energy Study Institute, University of Singapore**

**Mr. Lam**

Electrical Engineering Technical Division  
**The Institute of Engineers, Malaysia**

**Senior Representative, IPPF, Hong Kong**

**Prof. Pichai Aree**

Faculty of Engineering  
**Thammasat University, Thailand**

**Nomer Reynaldo**

Vice President, HESQ  
**SN Power Philippines** (subject to final confirmation),

**Senior Representative**

Business Development  
**Lloyd's Register**

**Norman Lee**

Principal Consultant, MD and Founder  
**Actsyst Process Management Consultants Pte Ltd, Singapore**

**Amit Sengupta**

General Manager, Generation Division  
**CESC Ltd., India**

**Senior Representative**

Generation Department  
**SN Power, Singapore**

**Senior Representative**

Operations and Maintenance Division  
**Malakoff Corporation, Malaysia**

## Key features and advantages of attending include:

- Backed by an Advisory Board featuring key industry stakeholders
- Leading Asian forum to benchmark practice against top energy utility firms and innovators
- Specialised high-level technical and operational content dedicated to the challenges and opportunities linked to Outages and Power Plant Maintenance and efficiency
- Creative format designed to strengthen interaction: practical case studies, key note addresses, roundtable discussions, hand-on workshops and breakout sessions
- Behind-the-scenes technical site visit to one of Singapore's leading Power Plants
- Cocktail reception and structured networking time designed to foster inter-industry communication and knowledge sharing



## Conference Day One Wednesday 29 August

**08.30** Registration and Refreshments

**08.50** Chairperson's Welcome and Introduction

### MARKET AND INDUSTRY OVERVIEW

Demand for power in Asia, especially South East Asia, is continually growing, as a consequence also of economic conditions and general growth in the region. For operators and utilities to be competitive in this market it is essential to operate as efficiently as possible, using O&M performance as a competitive advantage.

#### 09.10 Opening Address: Overview of the Current Power Generation Landscape in Asia

- Major energy sources and geopolitical influences
- Updates and country focus
- Regional needs and regional efforts
- Coal/Nuclear/Hydro power plants

**Dr. Hooman Peimani**, Principal Fellow and Head, Energy Security Division, **Energy Study Institute, University of Singapore**

#### 09.45 The Shape of Power Plant Management in Asia

- Power availability and non availability
- Demand structure: base, peak, ancillary services
- Monitoring and period inspections
- Nuclear/Fossil and Renewable mix

Senior Representative, **IPPF, Hong Kong**

### PLANNING AND SCHEDULING

Careful planning is the key to a successful outage. Before operators set out to stop production and carry out an outage, the parameters of the work need to be set out carefully and with due consideration: regulatory requirements need to be taken on board, work scope identified, realistic goals need to be drawn up. Establishing sound basis and sticking to the plan is the key to success. Once mission creep takes hold, plans can quickly go awry.

#### 10.20 Case study: Planning, Scheduling and Setting the Parameters of Your Outage

- Getting creative with an outage – think outside the box
- Detailed planning: taking the step from daily maintenance to outage planning
- Outage internal approval – how to speed it up
- Sticking to the critical path
- Establishing good communication lines
- Security and Budget control

**Dr. Alex Smillie**, Vice President of Geothermal Operations, **PT Star Energy, Indonesia**

**10.55** Morning Refreshments and Networking Break

#### 11.25 Case study: Using Post-Outage Feedback to Define the Planning Process

- Success ratio and achievement of goals/budget
- Determine the technical status of the unit after the outage
- Evaluation of problems and contingencies
- Contractors performance and analysis of events happening during the post-outage operational time
- Lessons learnt on how to shorten work processes and cut costs

**Ashok Kumar**, Operations Manager, **Al Ezzel O&M Company, GDF Suez, Kingdom of Bahrain**

#### 12.00 Pre Outage Risk Assessment

- Building and capitalising on previous outages
- Defining metrics clearly
- Developing expectations and preparing for the unexpected
- Optimising risk assessment to avoid unplanned outages and improve the performance of the planned ones
- Performing excellent Risk Based Inspection (RBI) to justify your shutdown intervals

**Senior Representative**, Operations and Maintenance Division, **Malakoff Corporation, Malaysia** (subject to final confirmation)

#### 12.35 Overcoming Unexpected Problems during Outage Operations

- Identifying the root cause
- Short/long term solutions
- Determining factors: time/budget/outage planning/risk/operational boundary conditions
- Implementing a solution and providing operational support timely

**Mr. Lam**, Electrical Engineering Technical Division, **The Institute of Engineers, Malaysia**

**13.10** Luncheon

**14.10** Coffee and Networking

#### 14.30 Case study: Completion, Repowering the Plant and Post-Outage Procedures

- Restarting operations after an outage: often the most critical part of the outage
- Communicating the all clear to all levels
- Metrics and reports

**Stewart Andrew McWilliams**, Vice President Asset Management, **Senoko Energy Pte Ltd, Singapore**

### POWER PLANT OPERATIONS AND MAINTENANCE: IMPROVING EFFICIENCY AND OUTPUT

With growing demand for energy and more stringent environmental constraints, operational efficiency and reliability are key words for power plant operators in Asia. Effectively integrating outage operations in maintenance planning and execution will help optimise practices, cut time and costs and improve the overall efficiency and output of the plant.

#### 15.05 Integrating Outage Operations into the Maintenance Processes

- Contractor's buy-in to reach common objectives
- Establishing sound communication lines between senior management, maintenance, operations and engineering
- Identifying and maintaining key accountabilities
- Operational personnel education and training

**Prabir Majumdar**, Director of Operations and Maintenance, **Lanco International Pte Ltd, India**

## Conference Day Two Thursday 30 August

**15.40 Improve Outage Efficiency with On-line Maintenance Procedures**

- Relying on predictive maintenance
- Using early warning detection systems
- Planning for unplanned maintenance work
- Getting familiar with Preventive Measure Maintenance (PMM) to save time during shutdown execution

Speaker Confirmed, to be Announced Shortly

**16.15 Refreshments and Afternoon Networking Break****16.45 Off-line Power System Planning: Power Flow Initialisation with Induction Motor**

- Identifying the main cause of inaccurate dynamic assessment of power systems
- Effects of induction motor loads on power system dynamics
- Initialisation techniques for power system dynamic simulation
- Implementation of induction motor model into power flow programme

Prof. Pichai Aree, Faculty of Engineering, Thammasat University, Thailand

**17.20 Roundtable Session: Translating Daily Maintenance Records into an Outage Plan**

Our roundtable sessions offer the ideal platform to engage, examine and exchange views on key industry challenges. Moderated by industry experts, these interactive sessions allow participants an opportunity for in-depth, honest discussion and learning in a small, informal setting. With the room divided in groups, hosted on tables of no more than ten, participants will deliberate on the topic detailed below:

- Ensure accurate daily records play a role in shaping an outage plan
- Overcome the traditional practice of planning outages around the life-span of components
- Saving maintenance costs
- Risk based maintenance
- Using records to communicate the tasks to contractors and OEMs

**18.20 Chairperson's Summation and End of Day One****18.30 Cocktail Reception****08.30 Registration and Refreshments****08.50 Chairperson's Welcome****CONTRACTORS/OEM RELATIONSHIPS**

Being able to develop strong ties with your OEM or third-party contractor makes the difference between a successfully implemented outage and a failure. With so many factors and risks to consider, finding a way to overcoming obstacles and creating a good working relationship is still one of the most challenging areas of outage management.

**09.00 Roundtable Discussion: The Technological Mismatch: Bridging the Knowledge Gap to Improve Performance Delivery**

Our roundtable sessions offer the ideal platform to engage, examine and exchange views on key industry challenges. Moderated by industry experts, these interactive sessions allow participants an opportunity for in-depth, honest discussion and learning in a small, informal setting. With the room divided in groups, hosted on tables of no more than ten, participants will deliberate on the topic detailed below:

- Maintaining good relationship with OEMs – opening communication lines
- Developing a maintenance agreements strategy
- Training the workforce to reduce the lack of specific technical knowledge from the operators' side
- Relying onto on-site engineers for continuing support
- New build v. older power plants

**09.35 Ensuring Adherence to the Critical Path across Companies' Lines**

- Making sure both employees and contractors are accountable
- Communicating rules and plans
- Critical Path preparation and presentation
- Contingency work plans
- Coordination of critical path activities

Amit Sengupta, General Manager, Generation Division, CESC Ltd., India

**TECHNOLOGY INNOVATIONS FOR AN IMPROVED AND EXTENDED PLANT LIFE**

Improving performance and extended plant life are two of the main goals for a plant owner or operator. This session will present an overview of the technology innovations that can help maximize output and optimise efficiency whilst ensuring plant flexibility.

**10.10 Vibration-based Condition Monitoring to Optimise Maintenance Standards**

- Benefits of maintenance planning
- Using condition monitoring to identify faults early
- Failures during installations of machines
- Environmental monitoring related to operations
- Enhance the life-cycles of machinery and minimise maintenance costs

Senior Representative, Generation Department, SN Power, Singapore

**10.45 Morning Refreshments and Networking Break****11.15 Incorporating Improved Software Solutions into Outage Management**

- Exploring different software solutions to incorporate which can help save man hours and cost
- IT platforms comparison – portals v. control rooms

Speaker Confirmed, to be Announced Shortly



**UNPLANNED OUTAGES**

A production breakdown, an accident, a system failure can cause serious economic damage to a power plant. Unplanned events by definition cannot be planned, but a plant can be prepared for the unplannable.

**11.50 Roundtable Discussion: Breaking Away from Complacency: Limit Un-planned Outages by Investigating Problems Thoroughly**

Our roundtable sessions offer the ideal platform to engage, examine and exchange views on key industry challenges. Moderated by industry experts, these interactive sessions allow participants an opportunity for in-depth, honest discussion and learning in a small, informal setting. With the room divided in groups, hosted on tables of no more than ten, participants will deliberate on the topic detailed below:

- Planning for unplanned outages
- The danger of ignoring underlying issues
- Avoid turning the re-start switch back on until the root cause of the problems have been investigated properly
- Managing and handling 'urgency' effectively - Being ready to schedule in maintenance workload for unplanned outages
- Being ready and able to use un-planned outages as opportunities rather than accidents

**13.00** Luncheon

**14.00** Coffee and Networking

**14.30 Smart Testing and Stress Testing to Prevent Unplanned Outages from Occurring**

- Using microscopic testing to pinpoint specific problem as early as possible
- Simulator technology to frequently test the capabilities and degradation of the infrastructure
- Developing a track record in implementing smart technology

Speaker Confirmed, to be Announced Shortly

**H&S AND HR IMPACTING OUTAGE PERFORMANCE AND PLANNING**

Poor observance of Health and Safety standards have resulted all too often in serious or deadly accidents. Proper training, clear standards and goals, a culture that from the top-down reaches all personnel involved in the plant maintenance and outage management is essential to avoid plant catastrophes. It has to become a precondition for all on-line generation.

**14.55 Health and Safety Standards and Processes**

- Keeping up to speed with Health and Safety standards requirements
- Regulatory and 'social' needs – adaptability to different countries and backgrounds
- Mastering ethic, governance, process and communication ownership and responsibility and developing the ability to extend them to contractors and third parties
- Contractors' H&S management - Common H&S problems during major outages

**Vincent Ho, Chairman, Hong Kong Association of Risk Management and Safety, Hong Kong**

**15.30** Refreshments and Afternoon Networking Break

**16.00 Implications of Process Safety in Power Plant Failures**

- Understanding the real potential for process safety related plant failures
- Ensuring good process safety is maintained in end-to-end outage management
- Establishing process safety leading indicators and monitoring their performance

**Nomer Reynaldo, Vice President HESQ, SN Power, Philippines (subject to final confirmation)**

**16.35 Panel Discussion: The Workforce – STO Excellence through the Company Culture**

- Building an holistic understanding of an outage through a multi skilled work force, from heads of departments to managers and engineers
- Investing in knowledge transfer inside power plants: smooth transitions between departing and newly joining parties must be guaranteed through trainings
- Investment into new technology to sustain and improve capabilities as a way to supplement slim-lined personnel in many departments
- Efficiently dealing with communication difficulties in multi-cultural groups
- Impact on maintenance work of globalisation of the workforce and lack of qualified staff, resulting in delays and postponements

**17.15** Chairperson's Summation and End of Conference



## Conference Day Three Friday 31 August

### Half Day Interactive Workshop

#### Thermodynamic Performance Monitoring for Maintenance Planning to Ensure Plant Performance and Energy Efficiency

- 08.30** Registration and Refreshments
- 09.00**
- Thermodynamic models of power plants (heat balance, new and clean prediction, Incremental improvement)
  - Calculation Methodology, challenges with data quality and results analysis
  - Coal plant case studies
  - Combined Cycle Plant case studies
- 10.30** Morning Coffee and Networking
- 11.00**
- Pre and post inspection performance audits
  - Roles and responsibilities of performance team
  - Compliance with ISO 50001 Energy Management System

The Workshop will be led by:



**Norman Lee, Principal Consultant, MD and Founder, Actsys Process Management Consultants Pte Ltd**

Norman is the Managing Director and founder of Actsys, providing consultancy services for performance monitoring and energy optimisation of power plants, refineries, and petrochemical complexes. Actsys' major power customers include Tuas Power, Senoko Energy, Sembcorp Cogen, Power Seraya, Malakoff, Jimah Power, PT PJB and PT Indonesia Power.

Norman graduated from Imperial College, University of London in 1979 with a 1st class (Hons) degree in Chemical Engineering. He also completed his M.Sc. Advanced Chemical Engineering degree from the same university, and is a Fellow of the Institution of Chemical Engineers (UK) and a Singapore Certified Energy Manager. His employment career spanned 21 years in BP International and Shell Eastern Petroleum. In 2001 he came out on his own to start up Actsys Process Management Consultants Pte Ltd.

#### Actsys Process Management Consultants Pte Ltd

Process management consultants service the process industries, which include refineries, petrochemicals and power plants. We assist our customers to squeeze profits by identifying process and energy efficiency improvement measures. Potential for improvement usually exist in plants which significantly deviate from design point or plant which do not have efficiency driven condition monitoring maintenance programmes.

Going back to basics, checking your plant against design and implementing the appropriate performance monitoring systems, we help to identify and prioritise improvements in a continuous manner.

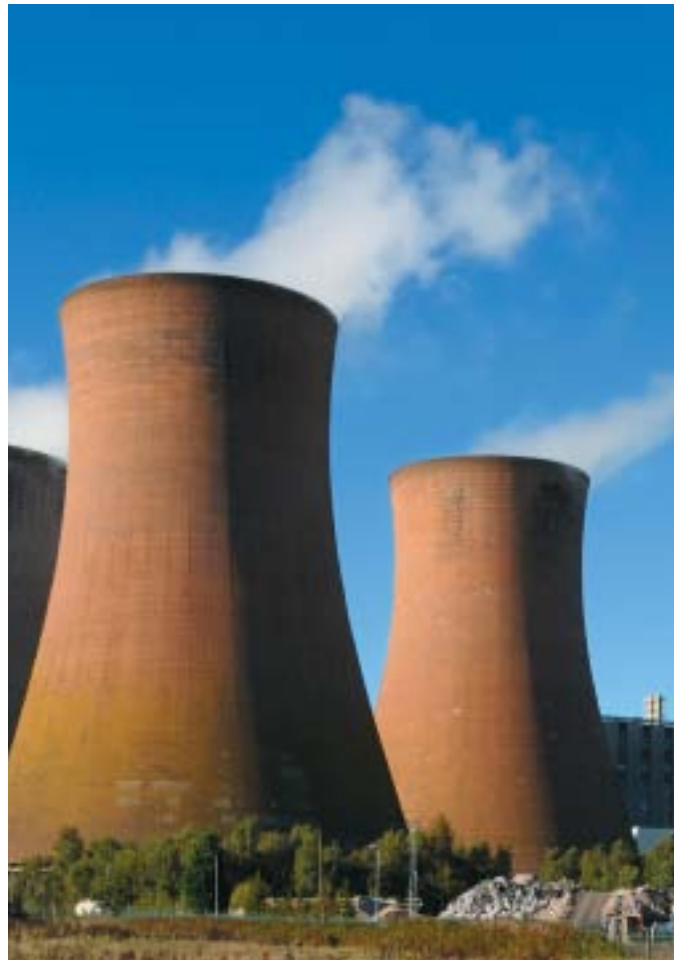
#### Site Visit\*: Pulau Seraya Power Station, Singapore, PowerSeraya Ltd.

- 13.00** Convening at Meeting Point and Departure from Hotel
- 14.00** Reception and Welcome Refreshments
- 14.30** Introduction to the Plant at the Information Centre
- 15.00** Tour of the Plant
- 16.30** Return to Hotel

PowerSeraya is a Singapore-based Energy Company. While its core business is centred on generation and retailing of electricity, it is also fast becoming a diversified Energy Company, which includes supplying utility services such as electricity, steam and cooling water, engaging in oil trading, and producing water through Reverse Osmosis Desalination, for its own use or for sale to its large industrial and commercial customer base. Its core business with a licensed generating capacity of 3,100MW is situated on Jurong Island - Singapore's oil, gas and petrochemicals hub. This location puts it in close proximity to the world's major shipping and oil routes, and extensive fuel storage capacity. Its operations are supported by our corporate office located at HarbourFront.

PowerSeraya was spun off from Singapore Power in 2001 to become a Temasek Holdings-linked company. Subsequently on 6 March 2009, the PowerSeraya Group was divested from Temasek Holdings to become a subsidiary of YTL Power International Berhad.

\*The Power Plant visit is subject to security clearance and can be cancelled at the host's discretion



## Conference Format



**Advisory Board:** The Advisory Board is made of industry leaders from infrastructure managers and operators. They ensure that the content is customer led and independent. The addition of suppliers, associations and media means that all perspectives are considered. The Advisory Board meets once a year to develop the event and ensures that the agenda remains at the cutting edge.



**Agenda:** In conjunction with our Advisory Board we undertake extensive phone and face-to-face research with key stakeholders and subject matter experts. This constant contact with the industry enables us to deliver in-depth technical and operational content that addresses the industry's specific strategic and commercial needs – needs that cannot be tackled in the context of a broad based event.



**Structure:** Our highly focused conference agendas feature the industry's most respected senior managers, technical specialists and project leaders from infrastructure management, operators and suppliers. Our speakers bring extensive technical and operational expertise. Case studies, featuring only the most relevant industry projects, are followed by panels that offer a platform for in-depth discussion amongst representatives from all relevant parties.

In addition, our roundtable sessions offer the ideal platform to engage, examine and exchange views on key industry challenges. Moderated by industry experts, these interactive sessions allow participants a unique opportunity for in depth honest discussion and learning in a small, informal and confidential setting. With the room divided in groups, hosted on tables of no more than ten, participants will deliberate on some of the most controversial and beneficial topics of the moment.



**Interaction:** Delegates sit in an open round table format to maximise information sharing. We restrict the use of slide-show presentations and favour participant involvement through multiple panel and plenary sessions. These focus on specific topics and are all led by specialist facilitators. Hands-on technical workshops and site visits offer attendees the chance for in-depth interactive discussions on the topics that matter most to their business.



**Outcomes:** Our events provide ideal forums for discussion amongst some of the key players from the power generation industry. Key topics are always addressed by senior experts and attendees invariably leave with valuable insights that make a real difference to their business.

## Venue Details:

Eventful Power Ltd welcomes you to Singapore!

The venue details will be confirmed shortly, for more details about the conference venue and booking options, please visit <http://www.eventfulpower.com/ppmomasia-2012.html>

Or contact:

**Anita Turner - Operations Manager**

T: 0044 (0)20 8452 7268

E: [anitat@eventfulpower.com](mailto:anitat@eventfulpower.com)



## Sponsorship and Exhibition Opportunities

Successfully managing O&M operations and Outages represents one of the greatest investments for power operators. The sheer planning, investment and costs required to execute maintenance and outage work means that any technical and specialist assistance to help to optimise efficiency is always keenly sought after.

This senior level, industry-led conference brings together technical specialists from across Asia looking to find new and innovative solutions to enhance maintenance efficiency and improve operational standards. Capitalise on this unique opportunity to demonstrate your company's excellence in the field and gain a unique advantage over your competitors!

### **DEMONSTRATE THOUGHT LEADERSHIP**

We understand the numerous technological developments and new solutions being presented on the market, but do your customers? Showcase your company's innovative approach to assist in outage management and power plant operations via an un-streamed, interactive setting.

### **RAISE BRAND AWARENESS AND INCREASE YOUR PROFILE**

From our research, operators have repeatedly highlighted the importance of forging the right relationships with service-providers to drive business forward and achieve the operational excellence they are seeking to attain. This is your opportunity to highlight your company's brand name in front of the industry's key stakeholders.

### **BUILD NEW AND EXPAND EXISTING RELATIONSHIPS**

It is vital for your organisation to be in the right place at the right time. The Power Plant Maintenance and Outage Management Asia 2012 offers a unique platform for you to deliver your message, raise awareness and spend quality time with your existing and potential clients in an exclusive environment.

**Position yourself as the supplier of choice and demonstrate how your organisation can deliver the answers to the industry's most pressing problems.**

**To secure your sponsorship opportunity contact:**

**Nisha Vyas**

T: +44 (0)20 8452 7268

M: +44 (0)79 6141 0017

E: nishav@eventfulpower.com



## Media Partners and Supporters:

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We also serve the Marine and Rail transportation industries. Our marine business principally involves classification of ships, which sets standards of quality and reliability during their design, construction and operation. Our expertise in business assurance and management systems is also world class. LRQA is the world's leading international supplier of business assurance. Our aim is to help clients use management systems to reduce risk and improve their business performance, as well as providing certification of compliance with international management system standards. Lloyd's Register stands apart: independent, objective, experienced and uncompromising in finding safe and reliable solutions. People trust us to deliver impartial, technically correct judge.

**Asian Power** is the definitive bimonthly publication for the power generation, transmission and distribution industry in the Asia-Pacific region. It targets senior management decision makers as well as engineers and middle managers. 92% of Asian Power readers recommend, specify or have the final authority for purchasing power-related products, equipment and services. Read the latest news in the industry at <http://asian-power.com>. Subscribe to its weekly newsletter and follow it at <http://twitter.com/asianpowermag>.



**Energy Asia** EnergyAsia.com is Asia's first dedicated energy news and information site, providing a wide range of contacts and information concerning the oil, gas, power and petrochemical industries in the region.



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**PI Power Insider** - Power Insider Asia is the most effective way of reaching over 52,000 decision makers throughout the Asian Power markets. Power Insider Asia is the only title dedicated to the Renewable and Smart Energy sector written by the region, for the region and including content by world leading experts.



**NRGExpert** is an independent energy market intelligence and research company. We specialise in energy market research reports, energy market databases and energy market consulting as well as analysis and market forecasts. Our global energy market research reports cover the electricity, water and waste, gas, hydrogen, nuclear and the renewable energy markets. We follow the energy markets very closely and we produce a wide range of reports, databases and directories. We also answer very specific energy market information requirements with our energy market consulting and data services. Our energy market analysis and forecasts are independent and benefit from our wealth of experience and knowledge about the energy markets and extensive sources that we use. We can help you jump the gap from where you are to where you want to be. We provide information to a wide range of companies, associations, education and government bodies and organisations.



**Tambangnews** is a leading portal site for high-quality information for the mining, energy, global gas, oil, power and affiliated industry, was founded since early 2007 and Tambangnews.com is based Jakarta, Indonesia. The portal provides most comprehensive & independent mining and energy information coverage through inputs drawn from various sources with the objective of assisting the industry players. Tambangnews.com also presents key data associated with the mining and energy sector such as legislation, business agreement



etc. It is read by professionals in the mining and energy industry, Upstream, Mid-stream and Downstream, the Service and Supply industry, the Power industry, major Banks, Governments and Universities, as well as by many analysts, NGO, consultants and other experts, in a wide range of countries.

**Reports and Reports** comprises of an online library of 50,000 reports, in-depth market research studies of over 5000 micro markets, and 25 industry specific websites. Our client list boasts of almost all well-known publishers of such reports across the globe. We, as a third party reseller of market research reports employ number of marketing tools such as press releases, email-marketing and effective search engine optimisation technique to drive revenues for our clients.



**Markets and Markets** is a full service and consulting firm that produces strategically analysed full length reports track more than 10 industries. M&M plans to launch industry-wise and country wise market tracker for all the verticals tracked. This intelligence database comprising of about 60000 reports a year will form one of the world's largest intelligence resources worldwide. MarketsandMarkets has effectively used technology to automate management of large and complex data for forecasts. MarketsandMarkets aspires to help its client to achieve sustainable growth by providing incisive business insights into their respective business partners. Our 200 global strategic accounts with topline revenues in excess of USD 1 Billion annually. Delivered syndicated research studies to top publishers globally on a subcontracting model. The major industries that we cover in our market intelligence deliverables are Pharma & Biotech, Telecom & IT, Healthcare & Life sciences, Chemical & Advanced Material, Electronics & Semiconductors and Foods & Beverages.



**Independent Power Producers Forum - IPPF** is an international non-profit NGO of senior executives and decision-makers and related firms with energy business commitments in Asia, Europe and allied regions. We are an active catalyst for positive change with a unique "fraternal" organisational atmosphere. We cover all key entities and sectors relating to power generation: Gas, Coal, Oil, LNG, Nuclear, Bio-Fuel, Geo-Thermal Hydro, Legal, Finance, Insurance, Security, Equipment, Infrastructure, Alternative, Renewable and Sustainable Technologies, etc. The IPPF leads the "New Energy" parade for Energy Efficiencies (EESCO's) Pollution Prevention (P2/E2), GHG Trading, Energy Security, Waste-to-Energy, Standby Power, Smart Grid, Distribution / Transmission Restructuring.



**HKARMS** - The Hong Kong Association of Risk Management and Safety is dedicated to those who are committed to improving safety in their areas of responsibility through management of risk. The Association is organised as a not-for-profit institution, no part of its assets or income is inured to the benefit of any private individual, partnership, or corporation. The Association engages in activities that are consistent with the qualification as a tax-exempt entity.



**Council of Power Utilities** has been formed to evolve solutions of the problems faced by power supply industry in the areas of eco-friendly power generation, transmission, distribution and utilisation. In the course of evolution, the actual interaction has been extended to cover major manufacturers of power plants, equipment and suppliers, providers of the inputs such as coal, oil, gas, meter manufactures and suppliers, engineering consultants, academicians, environmentalists, financial organisations etc. Discussion/ interaction and exchange of information between members of the council by way of workshops, seminars, and conferences, both national and international, at regular intervals regarding technological advancements for conventional and non-conventional environment friendly power development with improved efficiency. Standardising procurement procedures of important items of equipment, Disseminating information of other utilities both national and international in the form of pamphlets/small publications for benefit of the members, publishing quarterly journal 'INDIA POWER' in which contributions are made by senior level executives of the council and power supply industry for the benefit of the readers.





# POWER PLANT MAINTENANCE & OUTAGE MANAGEMENT ASIA 2012

29th-31st August 2012  
Singapore

## REGISTRATION FEE

	15% BEFORE 11TH MAY 2012	10% BEFORE 29TH JUNE 2012	STANDARD
POWER UTILITIES/PLANTS IPP's	2 DAYS \$1,615 3 DAYS \$2,200	2 DAYS \$1,700 3 DAYS \$2,350	2 DAYS \$1,900 3 DAYS \$2,600
SOLUTION/SERVICE PROVIDERS	2 DAYS \$2,200 3 DAYS \$2,890	2 DAYS \$2,350 3 DAYS \$3,050	2 DAYS \$2,600 3 DAYS \$3,400
ACADEMIA/ASSOCIATIONS & GOVT BODIES	2 DAYS \$799 3 DAYS \$1,150	2 DAYS \$850 3 DAYS \$1,215	2 DAYS \$950 3 DAYS \$1,350
CONFERENCE PROCEEDINGS			\$499

## HOW TO REGISTER

Tel: + 44 (0)20 8452 72 68  
Email: info@eventfulpower.com  
Online: www.eventfulpower.com/ppmomasia-2012.html

## REGISTRATION SELECTION

POWER UTILITY	SUPPLIER	2 DAYS	3 DAYS

TOTAL COST:

## DELEGATE INFORMATION

**Delegate 1 (Please complete in block capitals)**

Title  First name

Last name

Job title

Company

Address

Postcode

Tel  Fax

Email

**Delegate 2**

Title  First name

Last name

Job title

Company

Address

Postcode

Tel  Fax

Email

**Delegate 3**

Title  First name

Last name

Job title

Company

Address

Postcode

Tel  Fax

Email

**Delegate 4**

Title  First name

Last name

Job title

Company

Address

Postcode

Tel  Fax

Email

Special requirements (dietary, disabled access)

FOURTH DELEGATE FREE

## PAYMENT (PLEASE TICK PAYMENT OPTION)

- OPTION 1: INVOICE MY COMPANY**  
Registration fees are net of bank charges. If paying by international bank transfer, ensure that your company pays both the sender's and receiver's bank charges.
- OPTION 2: I AM PAYING BY BANK TRANSFER**  
Registration fees are net of bank charges. If paying by international bank transfer, ensure that you pay both the sender's and receiver's bank charges.

HSBC Bank, City of London Branch  
Sort code: 40:05:15  
Account number: 71804568  
BIC/SWIFT - MIDLGB22  
IBAN - GB46MIDL40051571804568

**IMPORTANT:** in order to track your payment, please reference the bank transfer with AS001 and DELEGATE LAST NAME

## AUTHORISATION

Authorised by:

Signature  Date

## TERMS AND CONDITIONS

**Payment**  
Payment must be received no later than 14 days from the date of invoice. Registrations received within 42 days of the event must be prepaid immediately by credit card or bank transfer. Delegates who have not paid their fees in advance may be refused admission.

**Substitutions / Cancellations**  
Any cancellations must be received in writing at least 42 days prior to the event. A cancellation fee of £250 will be payable on all cancellations received by this date. After this date, we regret that no cancellations can be accepted, and registering companies will be liable for 100% of the registration fee. A substitute delegate may be named at no extra charge.

**Data protection**  
Please tick the box(es) if you do NOT want Eventful Power Ltd to contact you by email [ ] or fax [ ] or mail [ ] with information on relevant future events.  
Please tick here [ ] if you do NOT want Eventful Power Ltd to share your details with sponsors of this event, or other reputable organisations providing relevant services