Plant Processes and Safety Conference 2011

22 – 23 November 2011 | Suntec Singapore

Get Key Strategies for Optimising Process & Achieving Greater Safety in Plant Operations

Sustainable Development through Energy Management Conference 2011

24 November 2011 | Suntec Singapore

Benefit from Investments in Sustainable Development & Energy Management Practices

Plant Processes and Safety Conference 2011

KEY ISSUES to be discussed:
• International standard for wireless in process applications updates
• Strategies to optimize OPEX Savings to ensure healthy ROIs
• Solutions to improving process automation & instrumentation
• Case study on world class condition monitoring and machine reliability
• Making the case for process safety management and best practices in instrumented systems

Sustainable Development through Energy Management Conference 2011

GET KEY HANDLES on these:
• The case for sustainable plant design
• Sustainable development is more than CSR
• Industry case study on sustainable business practices
• Case study – New technologies in plant energy management
• Effective OCP measurement technology
• Sustainable designs, models & solutions for plants.

Visit www.cia-asia.com/conference-registration or www.enviro-asia.com/conference-registration to register now and enjoy early bird rates!
Developing Robust and Flexible O&M Procedures to Having stringent operation & maintenance practices can prevent losses
Forward strategies & approaches
Assessing instrumentation needs, network designs, and an evaluation
End of Day 1 of Plant Processes & Safety Conference
Refurbishing a plant – what should be done to prevent faults?
How design goals will ensure safety, loss prevention and a better ROI
CESC’s success story of having 2.5 million satisfied consumers
Process Automation & Instrumentation Strategies
Importance of analysing the current systems in place
Challenges and opportunities in Process optimisation
The necessity of having asset management norms in place
How can we build in better strategies & get it right before implantation?
Streamline processes and find the right solution to help manage system
Achieving process optimisation through process engineering & process

Visit www.cia-asia.com/conference-registration to register now and enjoy early bird rates!

**DESIGN & PROCESS AUTOMATION**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8.30 am</td>
<td>Registration</td>
</tr>
<tr>
<td>9.20 am</td>
<td>Welcome Address by Chairman</td>
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<tr>
<td></td>
<td>Kwong Kok Chan</td>
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<td>President ICS</td>
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**GLOBAL STANDARD FOR PROCESS AUTOMATION**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>9.30 am</td>
<td>IEC 62591 (WirelessHART) the International Standard for Wireless in Process Applications</td>
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<td></td>
<td>• How WirelessHART was designed to meet the needs of users in the process industries?</td>
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<td></td>
<td>• The need for interoperability</td>
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<tr>
<td></td>
<td>• Technology behind WirelessHART</td>
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<td></td>
<td>• WirelessHART as the leading wireless solution for process applications</td>
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<td></td>
<td>• Aspects of secure commissioning, low cost, risk of installation and coexistence with other wireless technologies</td>
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<tr>
<td></td>
<td>Jonas Berge</td>
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<td>Director, PlantWeb Consulting</td>
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**STRATEGIES FOR OPEX SAVINGS**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10.00 am</td>
<td>Organising OPEX savings to ensure ROI</td>
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<tr>
<td></td>
<td>• Optimising operation costs (OPEX) of a plant</td>
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<td></td>
<td>• Where can OPEX savings be realised?</td>
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<td>• How will effective management of operations and staff enable savings</td>
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<tr>
<td></td>
<td>• Case study on how covering all aspects of OPEX can lead to significant savings</td>
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<td>(Speaker to be confirmed)</td>
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<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10.30 am</td>
<td>Morning Break</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11.00 am</td>
<td>New Application Possibilities in Chemicals, Petroleum/</td>
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<td>Energy, Waste &amp; Water Industry Using High Resolution</td>
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<td></td>
<td>Continuum Source (HR-CS) AAS</td>
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<tr>
<td></td>
<td>• How will HR-CS AAS ensure operational simplicity, robustness, speed, flexibility and multi element analysis?</td>
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<td>• The benefits of contraAAA</td>
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<td></td>
<td>• This presentation will describe interesting applications demonstrating new information content for the user</td>
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<td></td>
<td>• Focus on the advantages for the chemicals, petroleum/energy, waste &amp; water industry</td>
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<td></td>
<td>Burcu Ozmen</td>
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<td>Product Specialist Optical Spectroscopy</td>
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<tr>
<th>Time</th>
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<tr>
<td>11.30 am</td>
<td>Improving Lifecycle Costs of Plants by Reducing Energy</td>
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<td>Consumption</td>
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<td></td>
<td>• Ensuring better energy management with energy analysis modeling and new technologies</td>
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<td>• Understanding power consumption – Outage management and lifecycle</td>
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<td>• How to reach net-zero energy consumption in the long run?</td>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>12.00 pm</td>
<td>The Success Story of Korea Southern Power Co, LTD</td>
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<td>Remote Monitoring &amp; Diagnostic Center</td>
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<tr>
<td></td>
<td>• Case study of KOPSO and its ability to meet Korea’s power demand</td>
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<td></td>
<td>• How it manages 3 power plants with 16 gas turbines, 16 steam turbines &amp; boilers and a huge number of BOP assets</td>
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<td>• GE System 1 as the existing State-Of-Art condition monitoring system and how automated diagnostics system was added on</td>
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<td>• How KOPSO’s RMS&amp;B center has emerged as best-in-class with advanced condition monitoring processes and technologies?</td>
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<td>• Testimonies of RMS&amp;B center for delivering high level of value with improved machine reliability</td>
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<td>Kim Mun Seok</td>
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<td>Expert, Technology Support Center</td>
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<td>Korea Southern Power Company</td>
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12.30 pm Lunch break & visit exhibition
1.50 pm Opening Address by Chairman
Dil Devaser
Consultant, Power

2.00 pm Developing Robust and Flexible O&M Procedures to Integrate with Innovation in Technology Sustainability to Avoid Shutdown and Failures
Sankar Mukhopadhyay
Senior Manager (Training)
CESC Ltd

2.30 pm Effective Mixing Techniques
Fabian Especkerman
Senior Regional Sales Manager (Laboratory Division) for the South East Asian
IKA

3.00 pm Process Automation & Instrumentation Strategies
Sankar Mukhopadhyay
Senior Manager (Training)
CESC Ltd

3.30 pm Panel Discussion: Achieving Optimum Solutions through Process Design
CESC Ltd

4.15 pm End of Day 1 of Plant Processes & Safety Conference 2011

*Program for the conference may be subject to change and organizer reserves the right to make necessary changes as deem fit.*
Day Two – 23 November 2011 (Wednesday)

### SAFETY IN PLANT OPERATIONS

8.30 am  **Registration**

9.20 am  **Opening Remarks by Chairman**

Kwong Kok Chan  
President  
ICS

### SIS & SAFETY LIFE CYCLE

9.30 am  **Safety Instrumented Systems**

- Preventing the risk of potential operating accountability by complying with process safety standards.
- It is critical to ensure the safety of the personal, asset, business continuation (including exposure to legal and regulatory compliance) and reducing environmental damage.
- Risk tolerance and risk acceptance principles will be discussed with particular reference to process safety standards and safety life cycle concepts.
- Procedural safeguarding measures and how to achieve functional safety are essential to prevent accidents.

Stanley Joseph  
Business Development Manager (Process Safety), Industry Automation and Drive Technologies  
Siemens Pte Ltd

10.00 am  **Active Monitoring of Flow Line Heating Systems**

- DEH, the primary alternative to chemical injection reduces the reliance on chemicals which has economic benefits to projects and is environmentally responsible.
- This system also reduces the risks involved in chemical transportation and storage.
- The need to verify the integrity of DEH.
- Experiences of installing the system in Tyrihans oil field.

Ingebjorg Lien  
Specialist Engineer, Electrical Systems  
Wartsila Norway A. S.

10.30 am  **Morning Break**

11.00 am  **Balancing Safety with Profitability – Can Operators have the Best of Both Worlds to Reduce Risk and Increase Profitability?**

- Risks of implementing the ‘minimum’ requirement to satisfy regulatory requirements to save costs.
- Importance of having the ultimate control over the production processes ensuring maximum safety functions are met.
- Selecting the right SIS to suit your plant to help improve profitability and safety.
- Is technology advanced to produce such SIS solution?

Alvin Chin  
Sales Director  
HIMA S.E.A. SDN BHD

### Panel Discussion: Plant Safety Strategies – Approaches to Plant Safety

11.30 am  

- Approaches to plant safety.
- Risk levels vs. cost considerations – a balancing act.
- Overcoming challenges and implementing best practices.

12.00 pm  **Lunch Break & visit exhibition**

1.50 pm  **Opening Address by Chairman**

Ho Weng Kuan  
Associate Professor  
NUS

2.00 pm  **Process Safety Management Systems & Practices**

- Prevention of accidents originating from process hazards.
- How to ensure an excellent safety management culture is in place.
- Amalgamating practices of other successful companies to yield reliability & quality.

Asit Kumar Bhattacharyy  
Sr Deputy Manager (HR)  
CESC Ltd

2.30 pm  **Managing Safety Lapses and Crisis**

- Preventive measures – what guidelines and checklists should be put in place?
- Recognising all costs, and managing a crisis situation.
- Examples of scenarios & solutions.

(Speaker to be confirmed)

3.00 pm  **Panel Discussion – Overcoming the Shortage of Skilled Personnel**

- Current challenges faced and solutions in the short to medium term.
- Safety training programmes.
- Creating and implementing the safety culture in plants – What, How & Where?
- Designing plants to reduce the need of skilled personnel to operate.
- Safety automation consideration.

Moderator & Panellists to be confirmed

4.00 pm  **End of Day 2 of Plant Processes & Safety Conference 2011**

### Who will attend?

CEOs, Vice-Presidents, Directors and Managers of Energy & Manufacturing Plants, Engineering & Contracting Consultants, Government & Environmental Agencies, Test, Measurement & Instrumentation companies

Visit www.cia-asia.com/conference-registration to register now and enjoy early bird rates!
24 November 2011 (Thursday)

Energy Improvements in Buildings and Plants

The Sustainable Development through Energy Management Conference 2011 takes a critical review of the most current developments in solutions for managing energy more efficiently. Take the opportunity to listen to expert views on energy improvements in plants and processes and incorporate many good practices into your organization.

8.30 am  Registration
9.20 am  Welcome Address by Chairman

INSIGHT INTO SUSTAINABLE DEVELOPMENT AND THE PROCESS INDUSTRY

9.30 am  Industry Address: Understanding Sustainable Development as more than just CSR
- Why adopt sustainable development practices in your business?
- The business case for sustainable plant design, ROI and standards
- Sustainability in operations, energy efficiency, environmental applications and safety.
- Regulatory and competitive pressures for Sustainable Reporting

Graham Owens
Director, Climate Change and Sustainability
KPMG

10.15 am  Morning Break

BUILDING SUSTAINABILITY INTO THE PROCESS DESIGN

10.45 am  Linking Energy and Finance, Environment and Enterprise Scales, Scopes and Systems for Sustainability
- How finance directors can reduce corporate energy bills with zero upfront capital and enhance the triple bottom line PPP
- Examples of businesses cases that have supported investment decisions in reducing costs and energy consumption
- Understand the data requirements - qualitative, quantitative and financial - needed for accurate investment modelling
- Insights into how Marginal Abatement Cost curves really work and how to use them to provide the basis for investment decisions
- Development of MAC curve as an extremely informative investment tool that allows you to accurately evaluate between projects and to balance ROI with carbon reduction, regulatory and financial targets
- Gain a better understanding of the risks and implications of future energy price inflation on your investment decisions

Dr Martin Blake
Executive Director
The GreenAsia Group

11.30 am  Sustainability in the Process Industry
- Process integration and optimization for resource sustainability
- Goals and applications for improving energy and water efficiency of industrial energy users
- Carbon emission planning and mitigation

Professor Zainuddin Abd. Manan
Dean, Faculty of Chemical Engineering
&
Ir Dr. Sharifah Rafidah
Consultancy and Training Manager for Process Systems Engineering Centre (PROSPECT)
Universiti Teknologi Malaysia

12.15 pm  Lunch break and visit the exhibition

Who Will Attend?

Why attend?
- Identify sustainable development areas for your business
- Get up to date with new technologies used in plant energy and waste management
- Learn about the sustainable best practices of other companies through the case studies
- Network with your peers and discuss issues, challenges and pressures involved in sustainable development

Visit www.enviro-asia.com/conference-registration to register now and enjoy early bird rates!

SUSTAINABLE DEVELOPMENT THROUGH ENERGY MANAGEMENT CONFERENCE 2011

ENERGY EFFICIENT TECHNOLOGIES

2.00 pm  Insight into Life Cycle Assessment (LCA) and Carbon Footprinting of Products and Services
- Understanding how LCA becomes an essential element in setting and achieving environmental and business performance objectives
- Assessing carbon footprint of product and manufacturing systems
- Case studies showing findings and issues of the assessment
- Identifying opportunities to improve environmental performance and manufacturing efficiency

Dr Fatidah Rugrungruang
Research Engineer
Singapore Institute of Manufacturing Technology (SIMTech)

CASE STUDIES

2.30 pm  Sustainable Business Practices – Ricoh’s Implementation of Sustainable Development through its Vision of a Low Carbon Economy Across the Value Chain
- Ricoh’s value chain and its lifecycle management
- Product design & environmental technology
- Reducing environmental impact on production sites
- Improving our logistics
- Promotion of our green products to the market
- Product recycling
- Ricoh way of thinking on sustainable development
- Controlling upstream impact
- Reducing impact on customer sites

Masayo Hada
Manager, Regional Environment Management Group, Service & Environment Division
Ricoh Asia Pacific

3.15 pm  An Effective and Reliable BOD Estimate with a New, Rapid COD Measurement Technology
- Relevancy of PeCOD COD (Chemical Oxygen Demand) Analyzer for the wastewater industry
- Treatment processes and operation
- Comparison data

Robert Menegotto
President
Mantech Inc.

3.45 pm  New Technologies used in Plant Energy Management
- Setting goals for energy reduction
- Technology in the plant energy mix – where does it best fit?
- Energy management measures with appropriate technology enablement
(Speaker to be confirmed)

4.00 pm  End of Sustainable Development through Energy Management Conference 2011

*Program for the conference may be subject to change and organizer reserves the right to make necessary changes as deem fit.
Sustainable development is not a novel concept, a number of manufacturers have been involved in water and chemical reuse or recycling for many years. In recent years however, there has been growing pressure from stakeholders, governments and the public for companies to adopt sustainable practices. The Singapore Exchange recently issued a policy statement and guide on Sustainability Reporting for listed companies, setting out broad principles to setting up a sustainability reporting framework.

This conference will look at how investing in sustainable development and energy efficiency practices can benefit your business, energy improvements for plants, sustainability in the process industry, and case studies from companies.

Make a case for sustainable development! Get key handles and best practices on how you can benefit from sustainable energy management.

How can you tap into new and emerging technologies in your plant?

What are the various approaches and plans for sustainable solutions?

Join us for these discussions!

**KEY SPEAKERS**

**Plant Processes and Safety Conference 2011**

- **Burcu Ozmen**  
  Product Specialist Optical Spectroscopy  
  Analytik Jena AG

- **Jonas Berge**  
  Director, PlantWeb Consulting  
  Emerson Process Management

- **Alvin Chin**  
  Sales Director  
  Hima S.E.A. Sdn Bhd

- **Kim Mun Seok**  
  Expert In Technology Support Center  
  Korea Southern Power Company

- **Sankar Nath Mukhopadhyay**  
  Senior Manager (Training)  
  CESC Ltd

**Sustainable Development through Energy Management Conference 2011**

- **Graham Owens**  
  Director, Climate Change and Sustainability  
  KPMG

- **Masayo Hada**  
  Regional Environmental Management Group Manager  
  Ricoh Asia Pacific

- **Dr Fatida Rugruangrung**  
  Research Engineer  
  Singapore Institute of Manufacturing Technology (SIMTech)

- **Prof Zainuddin Abdul Manan**  
  Dean, Faculty of Chemical Engineering  
  Universiti Teknologi Malaysia

- **Martin Blake**  
  Executive Director  
  The GreenAsia Group

**Benefits from Attending**

**Plant Processes and Safety Conference 2011**

Get the latest industry trends and strategies for plant optimization and safety operations. Listen to experts as they expound on the various critical areas for enhancement and how technology can be leverages to derive the desired organizational results.

**Plant Processes & Safety Conference 2011 will focus on the following key areas:**

**Design & Process Automation**
- Design trends and solutions for new or refurbished plants – getting process and instrumentation designs right before implementation
- Technological developments in process engineering and process control to achieve process automation
- Process simulation technology solutions to ensure cost efficiency and effectiveness in achieving optimization objectives
- Process control system security

**Safety in Operations**
- Process safety management – identifying hazards/risks in operation processes, and reviewing operating procedures to establish safety integrity levels
- Designing safety instrumented systems – key considerations, and pitfalls to avoid
- Preparing for emergency response, and conducting comprehensive incident investigations – training, diagrams, checklists
- Overview of regulatory requirements for plant safety (in Asia), and implications

Take the opportunity to interact with process & safety executives from the region.
### DELEGATE'S DETAILS
Please make copies of this form to register additional delegates.

**MODE OF PAYMENT**
Please indicate clearly on your cheque / bank draft / telegraphic transfer the event your payment is for. All bank charges and returned cheque charges must be borne by the delegate.

- Bank draft/ cheque (drawn on a Singapore bank account) in SINGAPORE DOLLARS only made payable to “Singapore Exhibition Services Pte Ltd”.
  - Please send it to: Singapore Exhibition Services Pte Ltd
    - No. 1 Jalan Kilang Timor, #09-02 Pacific Tech Centre, Singapore 159303
- Payment to be made to Singapore Exhibition Services Pte Ltd. Please fax payment advice to +65 6272 2962. SGD40 should be added to the total fees to cover bank charges. All bank telegraphic transfers must reach SES by 16 Nov 2011 for your seat to be confirmed.
  - Account Name: Singapore Exhibition Services Pte Ltd
  - Account Number: 01-060-2565-1
  - Bank Name: Standard Chartered Bank
  - Bank Address: Battery Road Branch, 6 Battery Road, #01-01 Singapore 049909
  - Swift Add: SCBLSGSGXXX
- Please charge the amount of SGD____________________to my AMEX / VISA / MASTERCARD / DINERS (delete where applicable)

**DISCOUNTS**
*Discounts are not cumulative. Only one discount scheme will be applicable at any one time.

- 10% discount to CIA2011/EnviroAsia2011 Exhibitors.
  - Name of exhibiting company: ____________________________
- 15% discount to ICS Members. (Code) ______________________
- 20% discount to groups of 4 or above registering from the same organisation. Delegates must register as a group.

**SUBSTITUTIONS / CANCELLATIONS**
Substitutions or cancellations should be made in writing before 1 Nov 2011. Refunds will be subjected to an administrative charge to be borne by the registrant. Bank charges that occur will also have to be borne by the registrant. No refunds will be provided for cancellation or no-show after 1 Nov 2011.

### BUSINESS NATURE
**[PLEASE TICK THE MOST APPROPRIATE OPTION]**

- End-users (Owners / Operators of Plants & Buildings)
- Government / Academic Institutions / Research Institutes / Associations
- Vendors / System Integrators / Technology Providers
- Consultants / Engineering Services Firms / Analysts
- Others – Pls specify:

### WHICH TICKET WOULD YOU LIKE TO PURCHASE?

- **Passport**
  - Access to ALL Conferences (22 – 24 Nov 2011) – 3 days
- **Plant Processes and Safety Conference**
  - Access to 2 days of Plant Processes and Safety Conference
- **Sustainable Development through Energy Management Conference**
  - Access to 1 day of Sustainable Developing through Energy Management Conference

### REGISTRATION FEES
The fees entitle you access to the registered track(s), proceedings, refreshments & exhibition.

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<tr>
<th></th>
<th>Early Bird Rate</th>
<th>Regular/Onsite Rates</th>
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<tr>
<td></td>
<td>(Register &amp; pay by 30 Oct 2011)</td>
<td>(Register &amp; pay by 15 Nov 2011)</td>
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<td>Overseas Delegate</td>
<td>Local Delegate*</td>
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<tr>
<td><strong>Passport</strong></td>
<td>SGD 890.00</td>
<td>SGD 952.30</td>
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<tr>
<td><strong>Plant Processes and Safety Conference 2011</strong></td>
<td>SGD 650.00</td>
<td>SGD 695.50</td>
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<td><strong>Sustainable Development through Energy Management Conference 2011</strong></td>
<td>SGD 390.00</td>
<td>SGD 417.30</td>
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* A 7% Goods & Services Tax (GST) is applicable to all companies in Singapore.

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**Contact Registration Desk at +65 6233 6736 for any enquiries.**