

2nd Annual



Smart Grids ASIA

2 – 5 November 2010
Pan Pacific Hotel, Singapore

OPTIMISING POWER QUALITY, EFFICIENCY & RELIABILITY

Asian Government & Electricity Utility Keynotes:

Yoshifumi Murase
Director Information Economy Division,
Commerce & Information Policy Bureau,
Ministry of Economy Trade &
Industry Japan

Director, Ministry of
Knowledge Economy,
Korea



Sunil Wadhwa
CEO & Executive Director,
North Delhi Power India



Harry Schnapp
Demand Side Management, Strategic
Projects/Network Planning &
Performance,
TransGrid Australia



Xue Yusheng
Honorary President,
State Grid EPRI China



SS Kacker
Deputy General Manager, Energy
Efficiency & Monitoring Group,
National Thermal Power
Corporation, India



S.K Singh
Deputy General Manager,
Operation Services,
National Thermal Power
Corporation, India

An international summit contributing to the development of Smart Grids in Asia, with country representation from:



Singapore



Japan



South Korea



China



India



Australia



US



Canada



UK



Netherlands



Sweden



Greece

With International Insight From:



Richard Bradley
Head of Energy Efficiency &
Environment Division,
International Energy Agency



George Arnold
National Coordinator for Smart Grids
Interoperability,
National Institute of Standards &
Technology, Department of
Commerce US



Yvonne Fredriksson
Director General,
Energy Markets Inspectorate,
Sweden



Kurt E. Yeager
Executive Director,
The Galvin Initiative US



Ralph Zucker
Director Smart Grids,
BC Hydro Canada



Paalus Agterberg
Director of Innovation & Strategy,
Alliander, Netherlands

So what's new for 2010?

- Updates on investments, frameworks and legislations in Asia driving Smart Grid development
- Asia focused sessions from Singapore, Japan, Korea, China & India
- An interactive Asia Smart Grid roadmap panel including leading electricity providers and energy regulators
- Leading international Smart Grid demonstration and pilot projects for Asia to learn from
- 2 dedicated streams focusing on Smart Distribution & Advanced Metering Infrastructure
- A special focus Post Summit on Microgrids & Distributed Energy Resource Management
- A Targeted Pre-Conference Workshop examining Smart Distribution Management Systems & Feeder Automation

Plus Pre & Post Summit Special Focus Days

Pre-Summit Workshop | Tuesday 2 November 2010
Smart Distribution Management Systems & Feeder Automation
Post-Summit Special Focus Day | Friday 5 November 2010
Microgrids & Distributed Energy Resource Management

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2nd Annual



Smart Grids

ASIA

2 - 5 November 2010

Pan Pacific Hotel, Singapore

FEATURING GOVERNMENT, UTILITY & SMART GRID EXPERTS



Richard Bradley
Head of Energy Efficiency & Environment Division, International Energy Agency



George Arnold
National Coordinator for Smart Grids Interoperability, National Institute of Standards & Technology, Department of Commerce US



Yvonne Fredriksson
Director General, Energy Markets Inspectorate, Sweden



Kurt E. Yeager
Executive Director, The Galvin Initiative US



Xue Yusheng
Honorary President, State Grid EPRI China



Sunil Wadhwa
CEO & Executive Director, North Delhi Power India



Max Bryan
Principal Engineer, Alcatel Lucent Asia-Pacific



Ralph Zucker
Director Smart Grids, BC Hydro Canada



Paalus Agterberg
Director of Innovation & Strategy, Alliander, Netherlands



Harry Schnapp
Demand Side Management, Strategic Projects/Network Planning & Performance TransGrid Australia



SS Kacker
Deputy General Manager, Energy Efficiency & Monitoring Group, National Thermal Power Corporation, India



Michael Quah
Principal Research Scientist, Energy Studies Institute, National University of Singapore



Sridhar Samudrala
Director, World Alliance for Decentralized Energy Asia



Geoff James
Principal Research Scientist, Energy Technology, CSIRO Australia



Duncan Botting
Managing Director, Global Smart Transformation Limited UK



Dr Aris Dimeas
Research Scientist, National Technical University of Athens, Greece



Andrew Simpson
Senior Research Fellow-Renewable Transport, Curtin University Sustainable Policy Institute Australia



SK Singh
Deputy General Manager, Operation Services, National Thermal Power Corporation, India



Dr Ashwin Khambadkone
Programme Director (EPGC), Institute of Chemical Engineering Sciences, Experimental Power Grid Centre, A*STAR



Yoshifumi Murase
Director, Information Economy Division, Commerce & Information Policy Bureau, Ministry of Economy Trade & Industry Japan

Dr Michael McGann
The Social Justice Initiative, University of Melbourne, Australia

Key Conference Themes Discussed Include:

- The business case for Smart Grids
- Best practice regulatory frameworks & standards
- Roadmaps & key milestones for Asia's smart grid development
- Global smart grid case studies & demonstration projects
- Smart distribution & grid reliability
- Advanced metering infrastructure & the next generation smart grid consumer
- Microgrids & distributed energy resource management



Plus Pre & Post Summit Special Focus Days

Pre-Summit Workshop | Tuesday 2 November 2010

Smart Distribution Management Systems & Feeder Automation

Post-Summit Special Focus Day | Thursday 5 November 2010

Microgrids & Distributed Energy Resource Management

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8.00 **Registration & Morning Coffee**

9.00 **Chairman's Opening Remarks:**



Kurt E. Yeager, *Executive Director, The Galvin Initiative US*

The Business Case for Smart Grids

9.10 **What will the Smart Grid Save?**

KEYNOTE ADDRESS

- Saving energy costs and greenhouse gas emissions
- Changing the way power is generated, distributed and used
- Responsibility of regulators and utilities to deliver benefits to consumers
- Controlling the energy business vs. monitoring the consumer
- Justifying the benefits of Smart Grid technology

Richard Bradley, *Head of Energy Efficiency & Environment Division, International Energy Agency*

Supportive Regulatory Frameworks & Standards

9.40 **Video Link-Up: The Priorities of Standardization to Achieve a Smart Grid**

- What are the priorities for standardization and why?
- What part will Asia play in standardization?
- Understanding Smart Grid domains and interoperability issues
- Model for ensuring integration, effective cooperation and two way communication between the various components of Smart Grid technologies
- Coordinating and collaboration beyond interoperability to achieve a Smart Grid



George Arnold, *National Coordinator for Smart Grids Interoperability, National Institute of Standards & Technology, Department of Commerce US*

10.10 **Developing Supportive Regulatory Frameworks for Smart Grid Development**

- National rollout of Smart meters in Sweden
- Development of a framework to support Smart Grid development
- Coordinating national, regional and EU wide practices
- Promoting innovation and developing synergies within the industry
- Communicating benefits to the public



Yvonne Fredriksson, *Director General, Energy Markets Inspectorate, Sweden*

10.40 **Morning Networking & Refreshment Break**

11.10 **Planning the Smart Grid Journey – Getting it Right the First Time**

GOLD SPONSOR

The new world of smart grids is not a destination; it is a journey that requires careful planning including how to integrate next generation communications technology into transmission, distribution, and advanced metering infrastructures. This talk will explore the process of developing a communications roadmap addressing design, implementation and migration of legacy single purpose networks into a single and cohesive multi-purpose network with an eye on reducing risks and providing for the highest levels of resiliency and security.



Max Bryan, *Principal Engineer, Alcatel-Lucent Asia Pacific*

Developing a Roadmap for Smart Grids in Asia: Recent Activity & Current Status on Frameworks, Investments & Milestones

11.50 **Current Update on Singapore's Smart Grid**

- Pulau Ubin's micro grid: test for solar, wind and waste technologies
- Milestones for developing Smart Grids in Singapore
- Technology partners for implementing the pilot
- Benchmarking Asia's development for a Smart Grid



12.30 **What is Needed to Fast Track Investment & Achieve a Smart Grid in India?**

- How will the Smart Grid change the way power is generated, distributed and used in India?
- What will be the cost benefits for the utility?
- What is the responsibility of regulators, utilities and the consumer in order to maximize the benefits of the Smart Grid in India?
- How can we deliver the benefits effectively to consumers in India?
- How can we ensure utilities consistently achieve financial results?



Sunil Wadhwa, *CEO & Executive Director, North Delhi Power India*

1.10 **Networking Luncheon**

2.20 **Japan's Smart Community**

- Achieving a top level, reliable supply of electricity
- Japan's focus on renewable energy, particularly solar PV
- Examining the way people live, work and move and design of Smart Houses & Smart Offices
- Demonstration projects to implement Japan's Smart Community
- Creating an interconnected energy system to enable a Smart Community



Yoshifumi Murase, *Director, Information Economy Division, Commerce & Information Policy Bureau, Ministry of Economy Trade & Industry Japan*

3.00 **Latest Developments in China to Achieve a Smart Grid**

- Overview of the distribution of power and infrastructure requirements to meet electricity demand
- Smart elements in power grids in China
- Achieving large scale renewable energy generation
- Updates on demonstration projects



Xue Yusheng, *Honorary President, State Grid EPRI China*

3.40 **Afternoon Networking & Refreshment Break**

4.10 **Korea's Jeju Island Test Bed**

- Overview of the project
- Smart transportation: electric vehicle charging infrastructure and integration into the grid
- Smart renewables: renewable energy integration and storage applications
- Key success factors of Korea's Jeju Island project
- Implications of Jeju Island's Smart Grid test bed



Director, Ministry of Knowledge Economy Korea

Asia Smart Grid Strategy Panel Discussion

4.50 **Examining Asia's Approaches for Improved & Efficient Use of Energy & Discussion on Potential Smart Grid Technology**

- Current energy situation and outlook
- Issues and challenges for electricity development and meeting energy demand
- Perspectives on Smart Grids
- Can a common vision and standards be developed for Smart Grids in Asia
- Requirements for electricity infrastructure developments
- Achieving renewable energy targets and integration
- What is needed to advance intelligent grids in Asia?
- Next steps

Panelists:



Sunil Wadhwa, *CEO & Executive Director, North Delhi Power India*



Xue Yusheng, *Honorary President, State Grid EPRI China*



SS Kacker, *Deputy General Manager, Energy Efficiency & Monitoring Group, National Thermal Power Corporation, India*



S.K Singh, *Deputy General Manager, Operation Services, National Thermal Power Corporation, India*



Yoshifumi Murase, *Director, Information Economy Division, Commerce & Information Policy Bureau, Ministry of Economy Trade & Industry Japan*



Director, Ministry of Knowledge Economy Korea

5.50 **Chairman's Summary**

6.00 **End of Day One**



About Smart Grids Asia Gold Sponsor!



Alcatel-Lucent

Alcatel-Lucent helps power utilities customers strengthen their businesses by enabling them to successfully transform their communications networks to support grid modernization, distribution and substation automation, AMI and smart meter deployments. We do this through strategic partnerships with industry leading companies and by providing trusted and proven communications expertise gained with over 10 years of experience with dozens of utilities worldwide to design, build, operate and maintain the most complex networks. Alcatel-Lucent helps its customers develop a network transformation roadmap that optimizes existing assets, minimizes risks and ensures a smooth migration to next generation communications infrastructure enabling an adaptive electricity network.

8.45 **Morning Coffee & Networking**

9.00 **Chairman's Opening Remarks:**

 **Kurt Yeager, Executive Director, The Galvin Initiative US**

Global Smart Grid Case Studies & Demonstration Projects

9.05 **The Perfect Power System- Naperville Smart Grid Initiative**

- Overview of the Naperville Smart Grid initiative: the problems, aims and solutions
- Smart technology, investments and funding for the initiative
- Naperville's achievements over the past 17 years to achieve electric power system transformation
- The next phase of Naperville's Smart Grid project



Kurt Yeager, Executive Director, The Galvin Initiative US

9.30 **Amsterdam Smart City Results So Far & Electric Vehicle Infrastructure**

- Overview of the aims, structure and key results to date of the Amsterdam Smart City program
- A close look at the way Alliander created a charging infrastructure for electric vehicles in Amsterdam



Paalus Agterberg, Director of Strategy & Innovation, Alliander, Netherlands

10.00 **Distribution Automation Systems: Opportunities for Performance Improvement and Cost-Savings**

- Achieving enhanced reliability and operating efficiencies through distribution automation
- Energy savings through Volt Var Optimization (VVO)
- Reducing infrastructure investments with utility storage systems
- Automated work processes for achieving operational efficiencies through spatial asset management
- Use of sensors to reduce non-technical losses



Ralph Zucker, Director Smart Grid Development, BC Hydro Canada



10.30 **Morning Networking & Refreshment Break**

11.00 **Demand Side Management Measures & Network Planning to Enable the Smart Grid**

- Demand side management measures to relieve electricity network constraints
- Cost-effectively achieving network related objectives through Smart Business Approach
- Transmission network planning in a regulated electricity market
- TransGrid's approach to Demand Side Management and experience
- TransGrid's role in Australia's Smart City Smart Grid project



Harry Schnapp, Demand Side Management, Strategic Projects/Network Planning & Performance, TransGrid Australia

11.30 **Key Results from the "Microgrids" & "More Microgrids" Projects in Europe**

- Overview of the objectives and structure of the Micro grid Projects
- "Microgrid" & "More Microgrids" Projects involving 22 Partners and 11 EU Countries
- Insight on the pilot sites across Europe
- A close look at the field trial in small settlement in Greek Island, Kythnos involving 15 houses operating in an isolated environment using mainly PV and batteries
- Quantifying the results and key findings



Aris Evangelos Dimeas, Electrical & Computer Engineer, National Technical University of Athens, Greece

12.00 **Networking Luncheon**

Stream A: Smart Distribution & Grid Reliability

FOCUS SESSION

1.30 **Chairman's Introduction**

Duncan Botting, Managing Director, Global Smart Transformation Limited

2.05 **The Active Grid: Delivering Consumer Participation in a New Revolution**

- An active distribution system and grid management techniques
- End user/"prosumer" vs the utility needs and requirements
- Strategies for balancing these needs and requirements



Duncan Botting, Managing Director, Global Smart Transformation Limited, UK

2.40 **A Smart Blackout Defense System**

- Preventing congestions in the power system
- Requirements for the power system to enable smart elements
- Wide area monitoring analysis protection and control of power systems
- Extreme environmental conditions and ensuring reliable supply
- Detecting and isolating faults



Xue Yusheng, Honorary President, State Grid EPRI China

3.15 **Insight into a Successful Large Network Support Project**

- Transmission planning criteria
- Regulatory framework for network business (price control and allowed revenues)
- TransGrid Australia's planning process
- Demand management as an integral part of planning and cooperation with distributors in the area of embedded generation



Harry Schnapp, Demand Side Management, Strategic Projects/Network Planning & Performance, TransGrid Australia

3.55 **Afternoon Networking & Refreshment Break**

4.25 **Developing High Performance & Real Time Monitoring of Distribution Devices & Power Quality**

- Sychrophasor technology/ Phasor Measurement Unit (PMU) to determine the health of the power system
- Technologies used to deal with out of the ordinary events in the system
- Integrating new technologies with existing infrastructure
- Incorporating universal PMUs into the grid
- Standards, protocols and performance characteristics



Dr Ashwin Khambadkone, Programme Director (EPGC), Institute of Chemical Engineering Sciences, Experimental Power Grid Centre, A*STAR, Singapore

5.00 **Electric Vehicles Infrastructure & Grid Integration Management**

- Examining the Smart Grid and electric vehicle requirements
- Insight into electric vehicle infrastructure
- Mobilizing the electric vehicle market with the utility for development on integration
- Grid design and management for electric vehicle integration
- Electric vehicle standards



Andrew Simpson, Senior Research Fellow- Renewable Transport, Curtin University Sustainable Policy Institute Australia

5.35 **Chairman's Summary of the Day & Close of Conference**

Stream B: Advanced Metering Infrastructure (AMI) & the Smart Grid Consumer

1.30 **Chairman's Introduction**

 **Kurt Yeager, Executive Director, The Galvin Initiative US**

Customer Education, Engagement & Marketing to Realize the True Value of the Smart Grid

2.05 **Smart Grid & the Customer: Progressing Together**

- What customers want and what they don't want
- Connecting with the customer
- The BC Hydro strategy for managing customer relations during Smart Metering deployment
- Working with developers and communities to achieve smart grid benefits



Ralph Zucker, Director Smart Grid Development, BC Hydro Canada

The Next Generation Consumer

2.40 **The New Powermatcher Pilot Project**

- An introduction to the new Powermatcher pilot project
- Testing Smart Home appliances that react on the price of energy at a few hundred households



Paalus Agterberg, Director of Strategy & Innovation, Alliander, Netherlands

3.15 **Smart Homes, Buildings & Appliances**

- The next generation of smart grids
- Overview of the smart appliance market
- What will the smart building/home entail?
- Achieving energy efficiency through smart appliances and smart energy management

3.55 **Afternoon Networking & Refreshment Break**

The Impact of AMI on Business & Community

4.25 **Smart Meters & Social Justice**

- Examining the impact of smart metering on consumer usage and electricity tariff schemes
- Benefits/disadvantages of time of use tariffs and social justice issues
- Implications for the utility and electricity regulators
- Examining the impact of smart meters on low income households vs middle and high income households



Dr. Michael McGann, The Social Justice Initiative, University of Melbourne, Australia

5.00 **Panel Discussion: An Effective Smart Metering Strategy**

- Developing an effective business case for Smart Metering
- Evaluating the costs and benefits of migration
- Internal business challenges utilities are faced with
- Overview of the scale of investment in smart metering
- A recommended approach for developing a business case
- Developing market rules

Speakers of the Day

5.35 **Chairman's Summary of the Day & Close of Conference**

A Smart Distribution Management System & Feeder Automation

- Why the need for a smart distribution management system?
- Achieving operational efficiency, system reliability and integrity
- Distribution SCADA and feeder automation architecture
- Real time monitoring and detection of fault locations using smart technologies
- Overview of voltage quality monitoring: key concepts, definitions and outcomes
- Voltage response characteristics of various types of loads
- Voltage optimization and the benefits
- What are the optimal sites for installation of voltage optimization equipment?
- Leading case study successes and failures of a smart distribution management system
- Industry initiatives and approaches for standardization of technologies and interoperability within the distribution management system

Please visit www.smartgridssummit.com for more details on the workshop leader

SPECIAL FOCUS DAY: MICROGRIDS & DISTRIBUTED ENERGY RESOURCE MANAGEMENT | FRIDAY 5 NOVEMBER 2010 >> 9am - 5pm

8.30 **Morning Coffee & Networking**

9.00 **Chairman's Opening Remarks**

Sridhar Samudrala, *Director Asia, World Alliance for Decentralised Energy*

Microgrids & Distributed Energy Resource Management

9.05 **Examining Microgrids & the Integration of Distributed Energy Resources**

- Overview of the benefits of microgrids for island distribution and central system
- Field trials to test control and coordination strategies on microgrids
- Quantifying the effects on power system operation and planning
- Applications for Asia

Michael Quah, *Principal Research Scientist, Energy Studies Institute, National University of Singapore*

9.45 **Distributed Energy Resources & Load Control to Manage Non-Critical Loads**

- Stability issues in non interconnected grids
- Installation of load controllers
- Insight into the operation of Greek Island microgrids
- Design of an EMS/Scada system for the microgrid

Aris Evangelos Dimeas, *Electrical & Computer Engineer, National Technical University of Athens*

10.30 **Morning Networking & Refreshment Break**

Virtual Power Plants

11.15 **Virtual Power Plants to Deliver Peak Load Electricity**

- Increasing load and distributed generation aggregation
- Aggregating micro generators to create virtual power plants
- Commercial and technical aspects of aggregation

Geoff James, *Principal Research Scientist, Energy Technology, CSIRO Australia*

Electric Vehicles & Energy Storage

12.00 **Electric Vehicles as a Storage Device for Distributed Energy Resources**

- Electric vehicles as storage devices and an enabler of distributed energy resources
- Electric vehicle charging patterns

- The role of the electric vehicle market as a distribution mechanism
- Smart charging and wind & PV integration
- Integrated bi-directional charging
- Creating mobile power

Andrew Simpson, *Senior Research Fellow- Renewable Transport, Curtin University Sustainable Policy Institute Australia*

12.45 **Networking Luncheon**

1.45 **Examining the Role of Energy Storage to Enable Distributed Energy Resources**

- Selecting energy storage technologies for better use of renewable energy resources
- Evaluating costs at a competitive level
- Case studies: storage located near generation or near demand
- Reliability & Power Quality Applications for Energy Storage

Renewable Energy Resources & Smart Grid Technologies

2.30 **Combined Heat & Power (CHP) & the Smart Grid**

- Cogeneration facilities to meet specific onsite heat and electrical requirements
- Where CHP fits into the Smart Grid
- Where are the opportunities in Asia?
- How Smart Grids and CHP work in a micro environment

Sridhar Samudrala, *Director Asia, World Alliance for Decentralised Energy*

3.30 **Afternoon Networking & Refreshment Break**

4.00 **Panel Discussion: Standards for Advancing Distributed Energy Resources Development in Asia**

- What does Asia need to do to advance distributed energy resources in Asia?
- How can a common standard be accomplished across Asia?
- Smart technologies, energy storage, electric vehicles and charging infrastructure strategy to develop acceptable standards

Speakers of the day

4.50 **Chairman's Summary of the Day**

5.00 **Close of Special Day Focus**

Companies That Previously Attended Smart Grids Include:

- A*Star • Aboitiz Power • Accenture • Alcatel-Lucent • Alstom • Alto Power • Areva T&D • Austin Energy • Cisco • CLP Power • Conal Holdings Corporation • Central Research Institute of Electric Power Industry • CSIRO • Current Group • Philippines Department of Energy • Australian Department of the Environment, Water, Heritage and the Arts • Duke Energy • Economic Development Board Singapore • Electricity Generating Authority of Thailand • Electric Power Research Institute • Enel • Energy Market Authority of Singapore • Energy Market Company Singapore • European Commission • General Electric • Honeywell • Intel • IBM • Itron • Joint US-China Cooperation on Clean Energy • JTC Corporation • Korea Electrical Research Institute • Landis + Gyr • Meiya Power • Ministry of Knowledge Economy Korea • National Grid Corporation Philippines • US National Institute of Standards & Technology • Nilsen Networks • Oracle • Pauwels International • Philippine Electricity Market • Power Seraya • Precise International Corporation • Red Line Communications • Scottish-European Green Energy Center • Senoko Power • Siemens • SP Powergrid • SP Services • ST Electronics • Tenaga Nasional • United Premas • Worley Parsons • World Alliance for Decentralised Energy

	Tuesday 2 November	Wednesday 3 November	Thursday 4 November	Friday 5 November
		2nd Annual Smart Grids Asia Summit		
9am – 12pm	Pre-Summit Workshop A Smart Distribution Management System & Feeder Automation	The Business Case for Smart Grids, Supportive Regulatory Frameworks & Standards	International Smart Grid Case Studies & Demonstration Projects	Post Summit Special Focus Day Multi Speaker Day Examining Microgrids & Distributed Energy Resources
12pm – 2pm		<i>Networking Luncheon</i>		
2pm – 5.30pm		Developing Asia's Smart Grid Roadmap	STREAM A: Smart Distribution & Grid Reliability	

Smart Grids Asia 2010 will bring together local and international representatives from the power transmission and distribution sectors, electricity policy drivers and regulators with information, communication and technology companies to discuss the implementation of leading edge digital technology to enable an intelligent and efficient electricity network. This conference will identify new partnerships and business opportunities in Asia, the fastest growing transmission and distribution market in the world. **Smart Grids Asia 2010** follows on from the successful **Smart Grids Asia 2009** conference that attracted **250+ delegates** throughout the region.

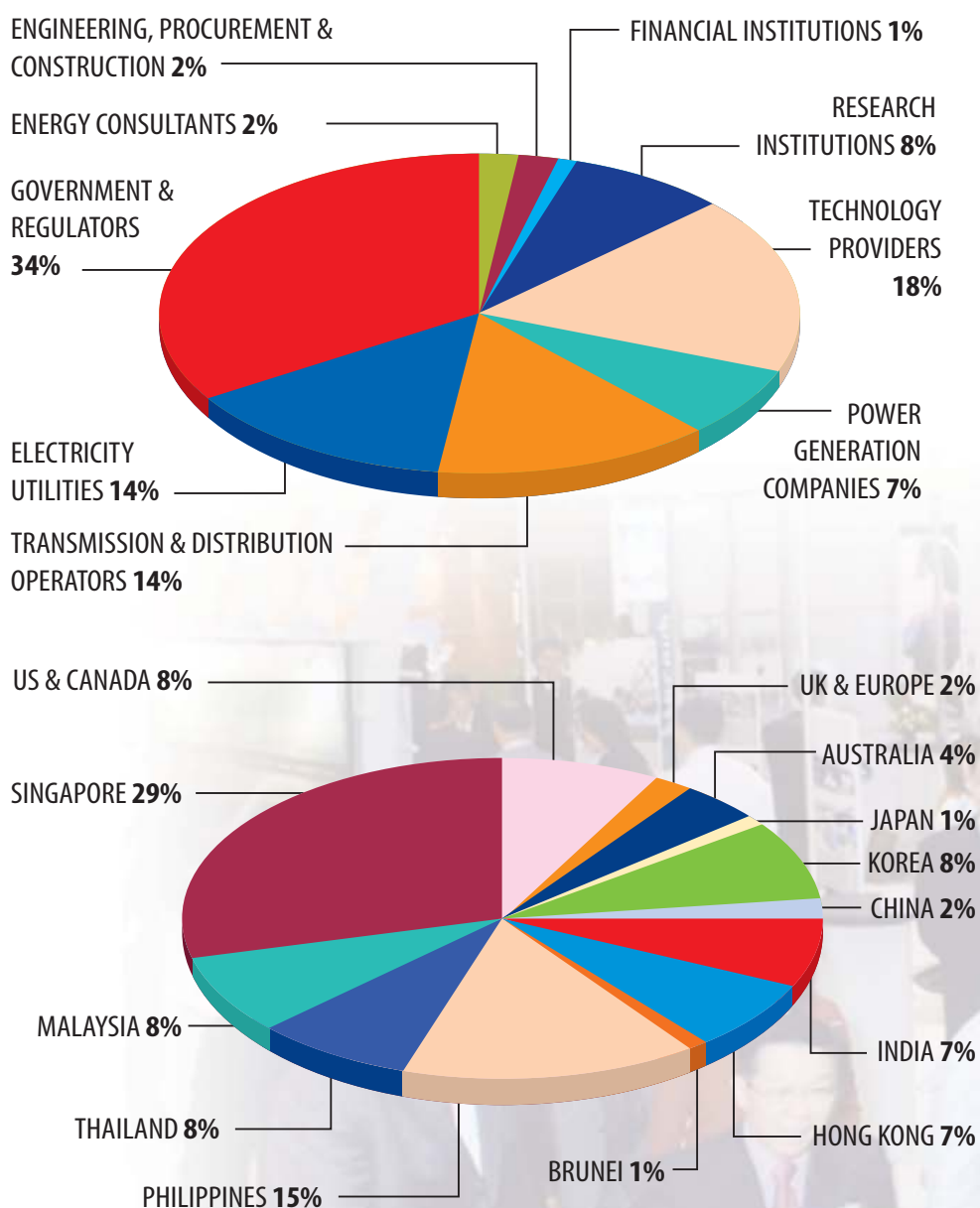


Key Conference Themes Discussed Include:

- The business case for Smart Grids
- Best practice regulatory frameworks & standards
- Roadmaps & key milestones for Asia's smart grid development
- Global smart grid case studies & demonstration projects
- Smart distribution & grid reliability
- Advanced metering infrastructure & the next generation smart grid consumer
- Microgrids & distributed energy resource management

Delegate Profile

Over 250 participants joined us in 2009 from the following industries and regions:



WHY SMART GRIDS ASIA 2010

Senior level decision makers from across the global power and electricity community will meet in Singapore to evaluate the latest investment initiatives in the Asian smart grid space. Smart Grids Asia 2010 will provide an excellent platform to meet your key clients and generate new leads. Sponsorship and Exhibition Opportunities include:



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