Register 3 and the 4th is FREE! Valid till 30 April 2014

ELECTRICITY INDUSTRY DESIGN

An essential & comprehensive course on electricity industry design, covering physical properties, structural choices, electricity markets & regulation with North American, European, Australian & Indonesian case studies

26 - 27 JUNE 2014, Singapore

TOPICS COVERED

- Electricity industry physical characteristics & trends
- Electricity industry design to meet societal objectives
- Design of electricity markets
- Design of electricity industry regulation
- Electricity industry design in North America, Europe, Indonesia and Australia

Expert Course Faculty

Dr Hugh Outhred

Hugh has 35+ years' experience in energy industry research, consulting & teaching

Dr Maria Retnanestri

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ELECTRICITY INDUSTRY DESIGN
26 - 27 JUNE 2014, Singapore

Course Overview

This course will provide a comprehensive discussion of electricity industry design, covering physical properties and technological trends, societal objectives, choices in industry structure, decision-making frameworks, the role of electricity markets and the role of regulation. Case studies from North America, Europe Australia and Indonesia will be presented.

Course Learning Outcome

- Physical characteristics of the electricity industry and technological trends
- Societal objectives and expectations for the industry
- Industry design options for the electricity industry
- Use of decision-making frameworks to organise electricity industry decision-making
- Design of electricity markets and their strengths & weaknesses in meeting societal objectives & expectations
- Electricity industry regulation and its strengths & weaknesses in meeting societal objectives & expectations

Who Should Attend

The course is designed for senior staff from government, regulators and industry. Participants should have relevant professional qualifications and prior knowledge of the electricity industry.

Unique Features with powerEDGE Training

- Pre-Course Questionnaire to help us focus on your learning objectives
- Detailed Course & Reference Manual for Continuous Learning and Sharing
- Practical Exercises & Case Examples to better understand the principles
- Limited class size to ensure One-to-One Interactivity
- Assessment at the end of the course to help you develop a Personal Action Plan

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2 Day Course Outline

Electricity industry physical characteristics & trends

- Continuous flow nature of the industry, from primary energy resources through generation, transmission, distribution to end-use equipment
- Characteristics of generation, transmission, distribution and end-use equipment
- Industry timescales from microseconds to decades
- Evolving nature of the industry & current trends

Electricity industry design to meet societal objectives

- Societal objectives for the electricity industry: - reliability, cost, sustainability
- Industry design options: - government owned, regulated monopoly, competitive & hybrids
- Use of decision-making frameworks to compare industry design choices
- Interactions between physical characteristics & design choices

Design of electricity markets

- Wholesale electricity markets – design choices
- Retail electricity markets – design choices
- Interactions between market design & industry structure

Design of electricity industry regulation

- Economic, social & technical regulation & their interactions
- Regulation of government-owned, monopoly & competitive electricity industries

Electricity industry design in Indonesia

- Physical characteristics of the energy sector
- Design of the electricity industry & policy context
- Experience to date & future prospects

Electricity industry design in Europe

- Physical characteristics of the energy sector
- Design of the electricity industry & policy context
- Experience to date & future prospects

Electricity industry design in North America

- Physical characteristics of the energy sector
- Design of the electricity industry & policy context
- Experience to date & future prospects

Electricity industry design in Australia

- Physical characteristics of the energy sector
- Design of the electricity industry & policy context
- Experience to date & future prospects

Your Expert Faculty

Dr. Hugh Outhred

In a 35-year research career, Hugh Outhred (PhD) has contributed to electric power system analysis and control, the theory of electricity industry restructuring and electricity market design, renewable energy technology, renewable energy integration, energy sector policy and sustainability policy. He has taught more than 100 short courses on electricity industry restructuring and sustainability in a range of countries since 1988.

In 1993 and 1994 he co-authored a report on electricity industry restructuring for the California Energy Commission that highlighted the complexity of electricity restructuring in that context.

In 1995 and 1996 he led a project for the Australian National Grid Management Council to undertake electricity-trading experiments according to the proposed National Electricity Market trading rules prior to their formal implementation.

From 2004 to 2007, he was the founding Presiding Director of the Centre for Energy and Environmental Markets at the University of New South Wales. From 2009 to 2011, he was a Lead Author for the International Panel on Climate Change (IPCC) Special Report on Renewable Energy Sources and Climate Change Mitigation, published in 2011.

Hugh has been a Fulbright Senior Fellow at the University of California Berkeley, USA and has held visiting positions at Massachusetts Institute of Technology in the USA, the University of Liverpool in Britain and the Universidad Pontificia Comillas in Spain.

He has been a Board member of the Australian Cooperative Research Centre for Renewable Energy and an Associate Director of the Centre for Photovoltaic Devices and Systems at the University of New South Wales. He was a member of the NSW License Compliance Advisory Board and a member of the National Electricity Tribunal throughout their existence from 1997 to 2000 and 1998 to 2006 respectively.

Hugh is a Fellow of the Australian Institute of Energy, a Life Member of the Institute of Electrical and Electronic Engineers & was, prior to his retirement in 2007, Presiding Director of the Centre for Energy & Environmental Markets at the University of New South Wales, Sydney Australia.

Dr. Maria Retnaestri

Dr. Maria Retnanestri is a Visiting Fellow in the School of Electrical Engineering and Telecommunications at the University of New South Wales.

She holds the degrees of Bachelor of Electrical Engineering (STTNAS Jogjakarta), Master of Engineering Science in Electrical Engineering (UNSW) and PhD in Electrical Engineering (UNSW).

In her PhD research, Maria Retnanestri developed the I3A (Implementation, Accessibility, Availability and Acceptability) Framework to investigate overall sustainability of renewable energy projects, considering their institutional, financial, technological, social and ecological sustainability dimensions. From 2008 to 2011, she then further developed and applied this research to identify ways to overcome barriers to renewable energy for sustainable development in Indonesia with financial support from an Australian Development Research Award.

With that financial support, she conducted more than 20 workshops, seminars, public lectures, field visits and study tours in Indonesia involving various kinds of renewable energy stakeholders in knowledge sharing and capacity building activities.

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REGISTRATION FORM

	Early Bird Ends 30 April 2014	Normal	GROUP OF 3 or more
2 Day Programme	SGD3,199 Per Participant	SGD3,399 Per Participant	SGD 3.059 Per Participant

4 ways to Register

Online Web Registration
info@poweredgeasia.com
(65) 6741 9927
(65) 67478737

ATTENDEE DETAILS

Name ..... Job title .....
Tel ..... Email .....

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COMPANY DETAILS

Organisation name .....Industry .....
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- ✓ Introduction To Clean Coal Technology
- ✓ Introduction to Power Systems
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- ✓ Fundamentals of Power Generation

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