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FREE!
Valid till 20th
June 2018

REDUCING CARBON EMISSIONS: CARBON PRICING & RELATED POLICY OPTIONS

An essential & comprehensive course on reducing energy-related climate change emissions with US, European, Australian, Chinese and Singaporean case studies that illustrate evolving real-world

24 - 25 JULY 2018, SINGAPORE

TOPICS COVERED

The climate change challenge & the role of the energy sector

Climate change mitigation policy framework overview

Carbon pricing & alternative economic instrument schemes

Climate change mitigation policy in the USA

Climate change mitigation policy in Europe

Climate change mitigation policy in China

Climate change mitigation policy in Singapore

Expert Course Faculty Leader



Dr Hugh Outhred

Hugh has 40 years' experience in energy industry research, consulting & teaching



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Course Overview

This course will provide a comprehensive discussion of climate change mitigation via carbon pricing and related policy options. It will first introduce the challenge of climate change mitigation and the scale of energy sector fossil fuel emissions. Carbon taxes, emission trading and fee-bate schemes will be placed in the broader context of climate change mitigation policies and actions needed to achieve effective mitigation. Case studies from the USA, Europe, Australia, China and Singapore will illustrate real-world implementation and outcomes to date.

Course Learning Outcome

- The climate change mitigation challenge and the need for rapid emission reduction via globally consistent policies and actions
- The contribution of energy sector fossil fuel combustion to overall climate change emissions
- Emission reduction policies for the energy sector including carbon taxes, emission trading and fee-bate schemes as well as alternative or complementary policies to support low-emission innovation, dissemination and acculturation
- Climate change mitigation in practice: Assessment of US, European, Australian, Chinese and Singaporean experience

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 energy sector.

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

This training course has a limited attendance for up to 20 participants only.

Sessions commence at 9am on all days, with short intervals at 10.30am and 3.30pm respectively.

Refreshments will be provided in the short intervals.

Lunch will be provided at 12:30pm for 1 hour. Sessions will end at 5pm on all days.

2 Day Course Outline

The climate change challenge & the role of the energy sector

- Variability in the earth's heat balance and climate
- Long-term history of the earth's climate
- Trends in climate change emissions and impacts
- Projecting future climate and consequences
- The climate change mitigation challenge
- The role of the energy sector

Climate change mitigation policy framework overview

- Objectives of climate change mitigation
- Emission reduction pathways for the energy sector
- A coherent policy framework for emission reduction in the energy sector

Carbon pricing & alternative economic instrument schemes

- Carbon taxes or fee-bates
- Emission trading using permits or credits
- Certificate schemes for low-emission technologies (supply-side and end-use efficiency)
- Comparing the economic instrument scheme options

Climate change mitigation policy in the USA

- History of Federal and State-level policies
- Recent developments & plans
- Assessment of outcomes to date and prospects

Climate change mitigation policy in Europe

- History of EU & National policies
- Recent developments & plans
- Assessment of outcomes to date and prospects

Climate change mitigation policy in Australia

- History of Federal and State-level policies
- Recent developments & plans
- Assessment of outcomes to date and prospects

Climate change mitigation policy in China

- History of National policies
- Recent developments & plans
- Assessment of outcomes to date and prospects

Climate change mitigation policy in Singapore

- History of National policies
- Recent developments & plans
- Assessment of outcomes to date and prospects

Your Expert Course Faculty

Dr. Hugh Outhred

In a 40-year career, Hugh Outhred (PhD) has contributed to research on 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 120 short courses on electricity industry restructuring and sustainability in a range of countries since 1989.

His research in competitive electricity industry design includes landmark papers published in 1980 with co-authors at MIT: *Homeostatic Utility Control and Quality of Supply Pricing for Electric Power Systems* and later papers such as *A Theory of Electricity Industry Design for Operation and Investment, Incorporating Network Effects In A Competitive Electricity Industry: An Australian Perspective*, and *Integrating Non-Storable Renewable Energy into the Australian Electricity Industry* (these and his other research papers can be provided on request).

In 1993 and 1994 Hugh 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.

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	PER PARTICIPANT	2 PARTICIPANTS OR MORE	IN-HOUSE TRAINING
2 Day Programme	SGD 3,368 Per Participant	SGD 3,168 Per Participant	Guaranteed Minimum 40% Off Normal Price
	*SGD 3,603.76 Per Participant (GST Inclusive)	*SGD 3,389.76 Per Participant (GST Inclusive)	

*GST FOR SINGAPORE REGISTERED COMPANIES

ATTENDEE DETAILS

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

Tel Department Email

Name Job title

Tel Department Email

COMPANY DETAILS

Organisation name Industry

Address

Postcode Country

Tel Fax

PAYMENT METHODS

By Cheque/ Bank Draft: Make Payable to PowerEdge Pte Ltd.

By Telegraphic Transfer: Please quote AE1 with the remittance advise

Account Name: PowerEdge Pte. Ltd.

Bank Code: 7339 Branch code: 686 Account Number: 686-253386-001 Swift Code: OCBCSGSG

Bank Address: 65 Chulia Street OCBC Centre, Singapore 049513

All bank charges to be borne by payer. Please ensure that PowerEdge Pte Ltd receive the full invoiced amount.

PAYMENT POLICY

Payment is due in full at the time of registration. Full payment is mandatory for event attendance. I agree to PowerEdge Pte Ltd. payment terms

* GST- Exclusive price is only applicable for overseas corporate customers subject to qualifying conditions.

CANCELLATIONS & SUBSTITUTIONS

You may substitute delegates at any time. POWEREDGE PTE LTD does not provide refunds for cancellations. For cancellations received in writing more than seven (7) days prior to the training course you will receive a 100% credit to be used at another POWEREDGE PTE LTD training course for up to one year from the date of issuance. For cancellations received seven (7) days or less prior to an event (including day 7), no credits will be issued. In the event that POWEREDGE PTE LTD cancels an event, delegate payments at the date of cancellation will be credited to a future POWEREDGE PTE LTD event. This credit will be available for up to one year from the date of issuance. In the event that POWEREDGE PTE LTD postpones an event, delegate payments at the postponement date will be credited towards the rescheduled date. If the delegate is unable to attend the rescheduled event, the delegate will receive a 100% credit

4 ways to Register

- 📧 Online Web Registration
- ✉ info@poweredgeasia.com
- ☎ (65) 6741 9927
- ☎ (65) 67478737

RELATED TRAINING

- ✓ [Reliability Engineering](#)
- ✓ [Introduction to Power Systems](#)
- ✓ [Excitation Systems](#)
- ✓ [Fundamentals of Power Generation for Non-Technical Professionals](#)

ON SITE TRAINING

Can't make it for the Course?
We'll make the course come to you!!

Simply let us know your preferred time and dates and we will meet you at your schedule and venue.

With a host of highly trained experts, we will be happy to customize your programme with your needs 100% fulfilled.

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- ✉ info@poweredgeasia.com
- ☎ (65) 6741 9927

