

# Seminar on Low Carbon Growth

12 November 2009, 9am – 1pm

Grand Hyatt Singapore, 10 Scotts Road, Singapore 228211

*Register Early to enjoy the early bird rate!*

## Objectives

This seminar developed by the British High Commission builds a strong foundation of knowledge on how to attain high growth through low carbon means, with a focus on energy efficiency. Case studies, including on programmatic CDM, are provided by specialists in their fields, to highlight the opportunity for policy makers and businesses to reduce their carbon emissions while increasing profits. The need to adapt now to climate change through low cost means such as energy efficiency is highlighted in High Stakes, a new film based on a report by the Asian Development Bank on Southeast Asia. The newly released film will show why it is important to act to adapt to climate change now and various ways government, business and academia can tackle this challenge. A new website will also be launched in Singapore as a resource that government, business, civil society and the media around the world can turn to for news on climate change developments and low carbon growth across the Asia Pacific region.

## Targeted Audience

- Business leaders
- Government Officials
- Investors
- Media
- Non-government officials
- Researchers

## Programme Outline

### Launch of Programme

**Ms Amanda Brooks**, Acting High Commissioner  
British High Commission

### Keynote Address

Guest of Honour

### Launch of Eco-Business.com

**Ms Jessica Cheam**, Founding Editor

Introduction of a new website for Asia Pacific's environmental community, supported by the British High Commission Singapore and the Singapore Environment Council. The site, launched formally today, will offer an alternative to news portals from the developed world on climate change issues and the environment. It will help NGOs, governments, research institutions and businesses get their stories published and read by a wider audience. Based out of Singapore, the site will leverage on a network of environmental writers and photojournalists across Asia Pacific.

### Public launch in Singapore of the new film High Stakes

This film production commissioned by the British Government summarises the hard facts of climate change in Southeast Asia. It spells out the actions that can be taken to mitigate and adapt to climate change in the region, based on the report by the Asian Development Bank on the economics of climate change in South-east Asia.

### High Growth Potential Using Low Carbon Means

**Mr Suphachol Suphachalasai**, Economist, Asian Development Bank

A focus on some of the best methods for Southeast Asia to maintain high growth according to the ADB's Review on the Economics of Climate Change, adaptation and mitigation through energy efficiency can prove to be a negative cost means to reduce carbon emissions from the region.

### Energy Efficiency – Business Opportunities Across Asia Pacific

**Mr Frederic Crampe**, Managing Director, ReEx Capital Asia

A presentation on Energy Efficiency as low hanging fruit for low carbon growth featuring business models, market drivers (electricity tariff, market size, legal & regulatory frameworks, etc), countries comparison and analysis of Asia Pacific. A look at the business opportunities, main barriers for growth and solutions through financing instruments and industry capacity building amongst others.

### CARE for Energy Efficiency – a programmatic CDM project

**Mr William Pazos**, Managing Director of Standard Bank

**Mr Kes Shotam**, Senior Managing Director, Climate Resources Exchange

Presentation of a programme of activities (POA) developed by Singapore-based CRX and a British bank that will be the first of its kind in Southeast Asia, with Singapore as its global launch pad. The POA under the CDM for Energy Efficiency will work to bring the efficiency of chiller plants in non-residential buildings across Singapore to below 0.65kW/TR per building, with the incentive of delivering carbon credits into the UNFCCC's CDM pipeline of projects.



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## Developing Energy Efficiency in Singapore

**Mr Lee Eng Lock**, General Manager, Energy Division, Trane Singapore

Understand the basics of developing high levels of energy efficiency in buildings. Find out some of the common mistakes being made today that could lead buildings to be stripped of their awards for being Green, from a pioneer of energy efficiency in Singapore who consults for governments internationally.

## Hartman's Loop for Energy Efficiency Projects

**Mr Thomas Hartman**, Founder, The Hartman Company, USA

### *About the Speakers*

**Ms Jessica Cheam** is a journalist at The Straits Times who reports on property, environment, energy and climate change. She joined the newspaper in 2006 after winning a scholarship to study a Masters in Journalism at London's Goldsmith College. She reported on national development issues at the general news desk before joining the business desk to also take on environment and energy. She has travelled widely to report on the oil sands industry in Canada, biofuel plantations in Myanmar and eco-cities such as Masdar in Abu Dhabi. A winner of the international Earth Journalism Awards, Jessica will be sponsored to cover the UN climate change negotiations in Copenhagen in December, where she will receive her award.

**Mr Suphachol Suphachalasai** is an Economist at the Asian Development Bank. He was a core team member of the Economics of Climate Change in Southeast Asia project. Suphachol is currently leading ADB Low Carbon Growth capacity building program, and is also supporting renewable energy operations and the Economics of Climate Change studies in other regions. Prior to joining ADB, he was Environmental Economist at the World Bank in Washington D.C., where he contributed, among other things, to the Bank's Strategic Framework on Development and Climate Change, the flagship Low Carbon Growth report, as well as Vulnerability and Adaptation assessment for India. Suphachol obtained his PhD in Economics from the University of Cambridge, and Bachelor's degree in Economics from Chulalongkorn University in Thailand.

**Mr William A. Pazos** is a Managing Director of Standard Bank Plc. and heads up Carbon Origination and Finance. Previously he was the CEO and founding partner of Ecoinvest Carbon S.A., a joint venture company with Bunge S.A. and one of the largest global carbon project developers. He has originated and sold several projects formatted to participate in the carbon-offset market within the Kyoto Protocol framework. He has managed emerging market and high yield investments for more than 20 years. He holds a Bachelor's degree in Economics with a concentration in Mathematics from The College of Wooster, Ohio, and a MBA in International Management from Thunderbird - The American Graduate School of International Management.

**Mr Kes Shotam** is a founding member and Senior Managing Director of CRX. As SMD, he is in charge of policy, strategy and finance. Prior to co-founding CRX, Kes was CEO of an earlier global venture, where he initiated the world's first Clean Development Mechanism (CDM) Exchange to trade carbon assets. Kes actively led IE Singapore's I-Partner GHG Emission Reduction Group Consortium, within which he was also instrumental in setting up a similar group at SEAS. Kes has led trade missions to Europe, India and Japan, and participated in various Round Table Events on Climate Change. Kes is lead strategist for the development of the CARE for Energy Efficiency in Chiller Plants under a CDM Program for Singapore.

**Mr Frederic Crampe** is managing a business advisory boutique based in Singapore, specializing in the Asia Pacific Clean Energy sector, offering consulting and investment banking type services. He is a director of a Philippines-based energy services company, member of the Sustainability Committee of the European Chamber of Commerce in Singapore and member of the Steering Committee for the Asian Development Bank's E4ALL initiative. He started his career in the US working for NASA in the Satellite Earth Observation Department (natural disasters and climate change) before being Head of Business Development and Project Financing for a European Environmental Engineering Services company.

**Mr Lee Eng Lock** a pioneer of super-efficient designs is internationally recognised for his singular contribution to energy efficient clean rooms for MNC high technology companies and building design for hotels and commercial buildings. An engineering graduate of Surrey University in the UK, this Singaporean has been designing and building electrical and mechanical systems for the past two decades. Mr. Lee's accomplishments include the design of over 100 commercial and industrial projects. He has also developed several building energy software products and is an expert in super-high accuracy building monitoring.

**Mr Thomas Hartman** is renowned for his development of new lighting technologies for simpler, lower cost and better performing building comfort systems. The Hartman Loop, which can halve the energy use of large central chilled water systems, was named after him. Mr Hartman has direct experience with hundreds of large chilled water plants and is knowledgeable and experienced with the use of networked control, monitoring and operation of large plants. His most recent high profile project is the Taipei Financial Centre, one of the tallest buildings in the world.



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Early Bird (Registration with payment made on/before 30 Oct 09)	Normal Fee (Closing date: 04 Nov 09)	No. of Delegates
\$30	\$50	
	Total	

## Participant's Details

1. Name(\*Dr/Mr/Mrs/Ms): \_\_\_\_\_ Designation: \_\_\_\_\_

HP No: \_\_\_\_\_ Email: \_\_\_\_\_ PEB

2. Name(\*Dr/Mr/Mrs/Ms): \_\_\_\_\_ Designation: \_\_\_\_\_

HP No: \_\_\_\_\_ Email: \_\_\_\_\_ PEB

## Organization's Details

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

Contact Person's Name: (\*Dr/Mr/Mrs/Ms) \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

## **Administrative Information**

### Registration and Payment

Please complete the enclosed registration form and forward it together with your cheque at least 7 days before the commencement of the programme to:

**Sustainable Energy Association of Singapore (SEAS)**  
**2 Bukit Merah Central, #18-02, Spring Building Singapore (Singapore 159835)**

Crossed cheque should be made payable to "Sustainable Energy Association of Singapore"  
Applications will close on 4 November 2009.

### Cancellation

SEAS reserves the right to change programme venue, cancel or reschedule the programme if necessary or warranted by circumstances beyond our control. There will be no refund of fees for withdrawal. However if the registration participant is unable to attend, a representative may be allowed to attend at no extra cost. Please inform us of the changes by fax or via email 3 days before the commencement of the programme.

### Confirmation of Registration

Confirmation of registration will be given 5 working days before the commencement date via email. Registration is confirmed only upon receipt of payment. If you do not hear from us, please contact Ms Joann Ng at 63388578 or email us at [training@seas.org.sg](mailto:training@seas.org.sg). You may fax your registration form to 62764257.



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