



SPEAKING INVITATION



**17-18 October 2007
Meritus Mandarin Singapore**

The Solar Power Asia 2007 will be held in conjunction with Clean Energy Asia 2007, an International Showcase & Conference Series that focuses upon providing vital information on the growth of the Clean Energy market in Asia Pacific and beyond.

At Clean Energy Asia, it will bring together over 1000+ leading practitioners in six new and important energy related sectors with strong application to the regions with Asia Pacific:

- *Ethanol & Biofuels,*
- *Solar Technology,*
- *Clean Coal Technology,*
- *Carbon Trading,*
- *Green SRI (Sustainable Responsible Investment)*
- *Green Buildings*

Organised by:

terrapinn

17th October 2007 Wednesday Conference Day One

08:30 Registration

09:10

Chairperson's opening remarks

Invited: Preben Maegaard, Chairperson, World Council for Renewable Energy, Denmark

ASIAN ENERGY POLICY AND THE KEY ECONOMIC DRIVERS OF SOLAR POWER

09:20 **Keynote address: Solar Energy's rapidly evolving landscape in Asia & the drivers for growth**

- Championing the use of solar energy in Asia: A look at the China, Korea & Japanese markets
- Solar energy's growing prospects in sunbelt countries of India & South East Asia as Off Grid energy providers
- Where does Singapore fit into the puzzle & what role can we play?
- Is Asia ready to drive solar energy usage across all industries?

Confirmed:

Kenneth Tan, Executive Director, **Economic Development Board**, Singapore

09:50 **Identifying different PPPs models in driving large scale commercial solar applications**

- The importance of government participation
- The availability of incentives in encouraging energy intensive and property industries in adopting solar energy
- Providing a stable platform for the participation of private financing and investment community
- Successful and failure case studies from the West

Confirmed:

Endro Utomo Notodisuryo, Honorary Adviser **ASEAN Centre for Energy**, Indonesia and Former Director General for Electricity and Energy Utilization **Indonesian Ministry of Energy**, Indonesia

10:20 **Panel: Understanding the necessary regulatory roadmap for developing solar projects in Asia**

- An overview of current renewable energy legislation in implications for the increased usage of solar
- Government's role in carbon reduction and incentives and promotion of solar energy
- How to create and sustain the market for grid-tied solar power: Direct financial incentives or solar set-asides? Tax credits or rebates? Capacity-based or performance-based incentives? Net metering policies or feed laws that deliver power directly to the grid?
- Successful national implementations policies from a comparative perspective
- Market liberalization and promotion of off grid usage
- Financing and investment climate and incentives
- Law and policy tools to encourage sustainable energy policies

Moderator:

Christophe Inglin, Chair Renewable Energy Committee, **Sustainable Energy Association**, Singapore

Panelists:

Mahalath Halperin, Director, **International Solar Energy Association**, Australia

Surendra Shrestha, Regional Director, **United Nations Environment Programme**, Thailand

Hu Runqing, Associate Research Professor, **Center for Renewable Energy Development (CRED) of Energy Research Institute, National Reform and Development Commission**, China

Preben Maegaard, Chairperson, **World Council for Renewable Energy**, Denmark

11:05 *Speed networking*

Much like speed dating, speed networking introduces you to all the conference participants and

helps to facilitate successful business relationships. It's fast and it's effective. Make sure you bring lots of business cards!

11.35 Morning refreshments

SOLAR POWER IN POWER GENERATION AND OFF GRID USAGE

12:00 **Off the grid solar power usage: The Mongol project blueprint**

- The nuts & bolts of the Mongol Project
- Challenges & risk faced in project implementation
- construction of Mongolia's renewable energy park and solar power integration

Confirmed:

Dr Sukhyung Lee, Chief Technical Officer, **Daegu City Gas**, Korea

12:30 **Integrating solar energy in the energy mix for power companies**

- State of the art in energy storage technologies and their various applications
- Possibilities of integrating renewable energies and a hundred per cent RE energy mix
- Change of scale of technology in the transition from fossil fuels to renewable energies
- Possibilities of cutting the renewable energies costs by energy storage
- Need for further research and development activities in energy storage technologies

Confirmed:

Preben Maegaard, Chairperson, **World Council for Renewable Energy**, Denmark

13:00 **Structuring power purchase agreements in Asia: The new frontier in embracing renewable energies**

- Identify the structure in place for power purchase agreement across Asia
- Opportunity to sell solar electricity under a PPA
- Find out when and where to use them
- Identify and negotiate sensitive issues

Confirmed:

Dechen Tsering, **United Nations Environment Programme**, Thailand

13:30 *Networking luncheon*

LATEST SOLAR POWER RESEARCH AND DEVELOPMENT INITIATIVES

15:00 **Australia new research: Technological advancement & latest research studies & its impact the commercial industry in the near future**

- Developments of latest solar technology research to reduce global warming from Australia
- The Australia Initiatives for solar energy commercial implementation – collaboration between governments, institutions and commercial industry
- Case studies on solar energy project implementations & its impact on the commercial sector
- Lessons for Asia

Confirmed:

Dr Richard Corkish, Head of School of Photovoltaic and Renewable Energy Engineering, **University of New South Wales**, Australia

15:30 **An epoch-making solar turbine: SHINLA Turbine**

- Towards a carbon free society: Mitigating global warming
- Adapting the SHINLA turbine system to energy intensive industries : Measuring the cost effectiveness against performance and higher outputs
- Project Firsts: Highlighting energy efficient solar projects in Japan and how these can be implemented for the rest of Asia

Confirmed:

Dr Takeo S. Saitoh, President, **Heat Island Institute International** and President, **Harbeman Energy Strategic Institute**, Japan

- 16:00 **Alternative solar technologies: Concentrating PV (CPV)**
- Stage of development of alternative solar technologies
 - Identifying the potential in lowering the cost of solar
 - Successful applications of CPV in lowering the cost of solar
- Confirmed:*
Speaker to be Confirmed, **Trina Solar**

16:30 *Afternoon refreshments*

**COMMERCIALIZING THE USE OF SOLAR PANEL MANUFACTURING:
DRIVING DOWN THE COST**

- 17:00 **PANEL: Demand for solar in Asia: How are manufacturers scaling up to meet the demand?**
- Assessing demand in Asia versus Europe and US
 - Identifying opportunities in the different industries
 - Focus and priorities of manufacturers across the world: Is there a capacity crunch at the moment?
 - Sales, marketing and distribution strategies in Asia

Invitation to:

Jos Vanderhyden, Business Development Director, **First Solar, Germany**

Mark Twidell, Regional Director, Australia & Asia, **BP Solar, Australia**

Ravi Krishnan, Vice President, Business Development, **Moser Baer Photovoltaic, India**

U J Bauer, Managing Director, **Q Cells, Asia, Hong Kong**

Moderator:

Christophe Inglin, Chair Renewable Energy Committee, **Sustainable Energy Association**, Singapore

18:00 *Chairman closing remarks*

18:10 *End of conference & Complimentary cocktails*

18th October 2007 Thursday Conference Day Two

8:30 Registration

9:15 Chairperson's opening remarks

Invited: Preben Maegaard, Chairperson, World Council for Renewable Energy, Denmark

COMMERCIAL APPLICATIONS OF SOLAR ENERGY

9.30 **Making solar a desired feature in your residential and commercial property development**

Solar electric systems are starting to gain traction as a standard feature found in many new homes throughout Asia Pacific. Many of the builders offering new homes with solar claim that the solar, in combination with energy efficiency features, is the driving force behind increased sales of their homes.

- opportunity for incorporating solar into building practices
- architectural implications
- cost and return analysis
- key lessons learnt

Confirmed:

Simon Wild, Director, **Cundall Multidisciplinary Consulting Engineers**, Australia

10.00 **Commercialising solar energy in property development in the new millennium**

- Advantages for property developers to integrate solar energy into their latest blue print
- Comparing energy saving opportunity with cost of investment
- Impact of green features on consumers' choices in a global movement towards carbon reduction
- Developing solar applications on existing properties: Assess viability, cost and returns

10:30 *Morning refreshments*

FINANCING AND CAPITAL RAISING OPTIONS FOR ENERGY USERS AND SOLAR START UPS

11.15 **Financing large scale solar projects**

Project financiers in the US and Europe have become comfortable with providing cash-flow based non-recourse finance to renewable energy projects. Given the higher risk profiles in the Asian sector, the key question is how those experiences can be translated into an emerging market context.

- Possible structures, risk allocation and securitisation models in financing large scale solar project
- Understanding the challenges and opportunities from the perspectives of the lenders and the borrowers
- Analysis the risks and returns
- Key case studies in Asia

Confirmed:

Frederic Crampe, General Manager, **The Renewable Energy Exchange (Asia)**, Singapore

11.45 **Capital raising opportunities for new solar start-ups**

- Global and regional investors' appetite for solar companies
- Choosing your listing platform and investment partners
- A review of successful IPO listings regionally and internationally

Confirmed:

Sanjeev Chaurasia, VP, Global Renewables Energy Effort, **Credit Suisse**, USA

12:15 *Networking luncheon*

UNDERSTANDING INVESTORS' TAKE ON SOLAR INDUSTRY AND THEIR INVESTMENT STRATEGIES

14:00 **Investing in solar power technology: Strategies of venture capitalists and private equities**

There are now more than 1200 funds operating in the Cleantech arena. Although the majority of these funds are investing in North America and Europe we are seeing more PE transactions in Asia. This discussion will centre around fund raising, deal origination and investment strategies.

- Assessing VC and private equity investment opportunities in Asia
- The economics of photovoltaics: Energy payback time, buy-back rates and the total costs of installing a PV system
- Tips on creating a successful Asian solar business model
- Where will the solar startups be in 5 years time?

Confirmed:

Don Ye, President & CEO, **China Environment Fund**, China

14:30 **Raising venture capital: Tips for solar entrepreneurs**

- Sniffing out the golden ticket: Distinguishing a rising solar start up from a 'passable' one
- What do investors look for in early stage teams/companies?
- Challenges in today's marketplace in raising capital
- Tips for solar entrepreneurs on positioning their start ups for funding

Confirmed:

Mark Fogarty, Executive Director, **CBD Energy Limited**, Australia

15:00 **Panel: Clean-tech venture funds: Inside perspectives on navigating growth and enabling the next-wave of innovation**

Clean energy venture investing is still a relatively new category – growing from less than one percent of total venture activity in 1999 to more than 4 percent in 2006. In the U.S. alone, venture activity in the solar sector has nearly quadrupled from \$68 million in 2004 to \$264 million in 2006. In this panel, you will hear from some of the leading fund managers investing in solar and a range of other clean technologies on what they've invested in, how their clean-tech funds and/or portfolios are doing, how they are adapting to a changing landscape and what they consider the greatest areas for clean-energy innovation. This panel will also address if the market is getting overheated or just getting started.

Moderator:

Roland Jansen, Chief Executive Officer, **Mother Earth Investments A.G.**, Switzerland

Confirmed:

Andrew Pidden, Principal & Chief Investment Officer, **Clean Resources Asia**, Singapore

Shinichiro Shiraki, President, **Asuka Asset Management**, Japan

Edgar Kirkwijk, Managing Director, **Biox Group B.V.**, Singapore

Sylvia Chan, Chief Utilities Strategist, **Macquarie**, Hong Kong

16:00 Afternoon refreshments

16:30 **INTERACTIVE ROUNDTABLE DISCUSSIONS FOR ALL DELEGATES OF CLEAN ENERGY**

This round table discussion session is an open moderated session where delegates are divided into groups to discuss a topic chosen. This session aims to bring out issues/problems/ideas, etc from individual delegate. Moderated by key industry experts, the round table discussion will ensure debate and discussion on thought-provoking and controversial issues with industry peers. You can select to participate in any of the following round table discussions and you have the freedom to move around different discussion groups to maximise your learning experience.

- 1) Identify the business opportunities stemming from a carbon trading environment in Asia
- 2) Understand how current and future emission laws and regulations are impacting businesses in Asia?
- 3) Impact on the oil, gas and power industries with the move towards renewable energy
- 4) Creating energy efficiency in your business: what are the available solutions and technologies?
- 5) Practical ways to reduce the carbon footprint and becoming a green corporation
- 6) Investing in green energy: what are the potential returns, risks and challenges?

18:00 End of conference