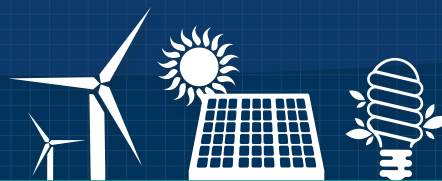


ASIA CLEAN ENERGY FORUM 2011



NEW BUSINESS MODELS AND POLICY DRIVERS:
BUILDING THE LOW-CARBON FUTURE



Program

Manila, Philippines • June 20-24, 2011

Organized and sponsored by



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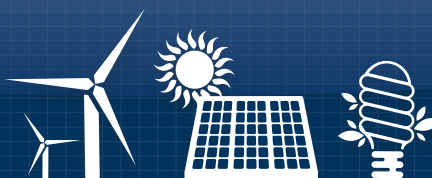
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ASIA CLEAN ENERGY FORUM 2011



NEW BUSINESS MODELS AND POLICY DRIVERS:
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ACEF 2011 Week at a Glance

	June 20 - 21 Monday - Tuesday					June 22 Wednesday					
	Pre-Forum Events					<div>Session 1: Opening Plenary A Call to Action: Accelerating the Clean Energy Revolution</div>					
9:00-10:30	<div>Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation – E nergy Efficiency Workshop June 20 (8:15 am - 6:00 pm), June 21 (9:00 am - 6:00 pm)</div> <div>Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation – Renewable Energy Policy and Regulation: Training Workshop on Feed-in Tariff Policy June 20 (8:15 am - 6:00 pm), June 21(9:00 am - 6:00 pm)</div> <div>2nd ADB Quantum Leap in Wind Conference: Overcoming Challenges and Building Momentum in Asia, 20 June (12:30 pm - 5:45 pm), 21 June (9:00 am - 6:00 pm)</div> <div>Energy for All Partnership Steering Committee Meeting (Invitation Only), 21 June (8:30 am - 1:00 pm) Energy for All Investor Forum, 21 June (2:00 pm - 6:00 pm)</div> <div>Sustainable Energy Industry Association of the Pacific Islands (SEIAPI) Executive Committee Meeting, 21 June (Invitation Only)</div>										
10:30-11:00											
11:00-12:30											
12:30-2:00											
2:00-3:30							Session 1: Opening Plenary A Call to Action: Accelerating the Clean Energy Revolution (continued)				
3:30-4:00						Lunch sponsored by Global CCS Institute					
4:00 - 5:30						<div>Session 2: Voluntary, Market-Based Approaches to Drive Exemplary Building Energy Performance</div>	<div>Session 3: Using Public Investment to Leverage Private Capital</div>	<div>Session 4: Approaches to Deal Facilitation and Technology Development for Clean Energy Projects</div>	<div>Session 5: Towards Sustainable Energy for All</div>	<div>CCS Ready Workshop (Parallel side-event)</div>	
						Break					
						<div>Session 6: Policies to Improve Distribution System Efficiency and Develop Smart Grids in Asia</div>	<div>Session 7: Clean Energy Investment Strategies and Products</div>	<div>Session 8: Business Models for Renewable Energy</div>	<div>Session 9: Financing Sustainable Energy for All</div>	<div>CCS Ready Workshop (Parallel side-event)</div>	
	Reception on June 20 sponsored by GE Energy Reception on June 21 sponsored by Vestas					Reception sponsored by Australian Trade Commission					

Clean Energy Marketplace: Promising clean energy technologies, businesses, and projects will be presented in a poster-session format outside the meeting area during June 22 - June 24. See Program for details.

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ACEF 2011 Week at a Glance

June 23 Thursday					June 24 Friday				
Session 10: Plenary on Financing and Business Models for Clean Energy Development <i>(Panel Discussion)</i>					Session 23: Low-Emission Development Strategies	Session 24: Experience with Tradable Energy Certificates	Session 25: Business Models for Sustainability	Session 26: Clean Energy Solutions for the Poor	Renewable Energy Development in South Asia (Parallel side-event)
Break									
Session 11: Carbon and Energy Finance (1): Domestic Carbon Trading	Session 12: Energy Efficiency Investment	Session 13: Renewable Energy: Developing Large-Scale Projects	Session 14: Business Innovations To Enable Energy for All - The Role of Large Companies		Session 27: Closing Plenary Putting it All Together: Visions for a Low-Carbon Future <i>(Panel Discussion)</i>				
Lunch									
Session 15: Key Policy and Implementation Issues in Renewable Energy	Session 16: Carbon and Energy Finance (2): Learning from the Clean Development Mechanism (CDM)	Session 17: ESCOs: 20 Years Later, How Much Progress Has Been Made?	Session 18: Earning Profit through Powering the Poor - Learning from Social Entrepreneurs	Grid-connected Solar Power in the Pacific (Parallel side-event)	Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation Special Roundtable to Develop a Regional Plan of Action for Asia and the Pacific 24 June (1:45pm - 5:00pm) (Organized by ADB, USAID, and Dialogue Partners)				
Break									
Session 19: Green Solutions for Public Transport	Session 20: Carbon and Energy Finance (3): Carbon as Part of a Clean Energy Investment Strategy	Session 21: The Role of the Private Sector in Delivering Innovation for Clean Energy	Session 22: Institutional Models for Transforming Rural Energy Access Markets	Grid-connected Solar Power in the Pacific (Parallel side-event)					
Reception hosted by ADB, USAID and WRI									

□ Pre-Forum Event, Parallel Side-event

■ Plenary Sessions

■ Policy and Regulation

■ Financing and Investment

■ Innovative Business Models

■ Energy for All

Monday, June 20, 2011

Reception Sponsored by



GE Energy

Tuesday, June 21, 2011

Reception Sponsored by

Vestas®

Wednesday, June 22, 2011

Lunch Sponsored by



GLOBAL
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Australian Government
Australian Trade Commission



Australia
UNLIMITED

Thursday, June 23, 2011

Reception Hosted by



USAID
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June 20-24, 2011



Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation



Collaborating Partners



Overview of Dialogue Events at the Asia Clean Energy Forum 2011

About the Asia-Pacific Dialogue

The Asian Development Bank (ADB) and the US Agency for International Development (USAID), along with a number of partners from civil society and the private sector are working together with other international partners to develop effective policy frameworks and then prepare, implement, and ensure compliance with effective regulations. In June 2010, ADB, USAID and the World Resources Institute (WRI) organized the first Asia-Pacific Dialogue on Clean Energy Governance and Regulation, in cooperation with the International Energy Agency and the Regulatory Assistance Project. The agreement resulting from the Dialogue, The Asia and the Pacific Energy Policy-Makers and Regulators' Statement on Clean Energy and Climate Change, can be found at: www.cleanenergyasia.net/sites/default/files/resources/DialogueStatement2010.pdf.

Dialogue Events at the Asia Clean Energy Forum 2011

The Asia Clean Energy Forum (ACEF) is the premier regional event that brings together decision-makers and practitioners to share experience and lessons learned in the areas of clean energy policy, technology, and finance. ACEF will be held at the ADB headquarters during June 20-24, 2011. It is expected to attract more than 500 clean energy stakeholders from more than 40 countries around the world. During the week, ADB and USAID will build upon the inaugural Dialogue with a series of events focusing on clean energy governance, policy, and regulation:

Energy Efficiency Workshop (20-21 June 2011). This workshop will bring together international experts, and Asian officials and stakeholders, to review experience in the implementation of energy efficiency policy and regulation to understand how policies and regulations can accelerate and scale up implementation of energy efficiency.

Renewable Energy Workshop: Feed-in Tariffs (20-21 June 2011). This workshop will focus on feed-in tariffs, which represent a key policy tool for accelerating renewable energy development. The workshop will include a set of case studies and training exercises on the design of feed-in tariffs.

Forum Track on Policy and Regulation (22-24 June 2011). The main ACEF event is a three-day meeting with plenary sessions and a series of breakout sessions on focused topics. It includes the following policy and regulatory sessions:

Session 2: Voluntary, Market-Based Approaches to Drive Exemplary Building Energy Performance

Session 6: Policy to Improve Distribution System Efficiency and Develop Smart Grids in Asia

Session 11: Carbon and Energy Finance (1): Domestic Carbon Trading

Session 15: Key Policy and Implementation Issues in Renewable Energy

Session 16: Carbon and Energy Finance (2): Learning from the CDM

Session 17: ESCOs: 20 Years Later, How Much Progress Has Been Made?

Session 19: Green Solutions for Public Transport

Session 23: Low-Emission Development Strategies

Session 24: Experience with Tradable Energy Certificates

Special Roundtable to Develop a Regional Plan of Action for Clean Energy Governance, Policy, and Regulation in Asia and the Pacific (24 June 2011). This roundtable will bring together key regional partners and stakeholders in the public and private sectors, and civil society, to develop a Regional Plan of Action for Clean Energy Governance, Policy, and Regulation. Participants will review lessons learned from previous Dialogue events and seek to reach a consensus on a priority set of regional actions that can be taken to strengthen institutional and technical capacity to design, implement, monitor, and evaluate clean energy policies and regulations.

For information:

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Peter du Pont, USAID Contractor

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June 20-21, 2011



Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation



Collaborating Partners



GE Energy



International Energy Agency



International Partnership for Energy Efficiency Cooperation



a reep initiative



UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific



WORLD
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Energy Efficiency Workshop

Background. This Energy Efficiency Workshop is part of the Second Annual Asia-Pacific Dialogue on Clean Energy Governance and Regulation, which was initiated by the Asian Development Bank (ADB) and the US Agency for International Development (USAID) in June 2010, with the International Energy Agency (IEA), the Regulatory Assistance Project (RAP), and the World Resources Institute (WRI) as collaborating partners. Dialogue participants recognized the urgent need for Clean Energy governance, policy, and regulation to spur reductions in greenhouse gas emissions, expand energy access, reduce regional pollution, and increase energy security. Experts agree that as much as two-thirds of all emission reductions before 2020 need to come from energy efficiency (EE), which is the most cost-effective way of achieving many clean energy objectives. However, while a number of governments in Asia have established EE policies and regulations, these are not yet sufficient to achieve the desired impact in terms of concrete emissions reductions. Hence, participants in the 2010 Dialogue recognized the urgent need for increased focus on EE. This year, an even wider range of Dialogue partners have joined the Dialogue, recognizing the importance of policies and regulations for clean energy in general, and EE in particular.

Objectives: This Workshop seeks to share experience that will lead to improved Governance, Planning, Policies, and Regulations to promote EE in Asia, and initiate a dialogue for sharing information while considering the need for ongoing networking, twinning arrangements, and capacity building within the Asia-Pacific region to this end. The Workshop will examine the nature of the different institutions and systems of governance to achieve energy efficiency; foster the sharing of practical experience from countries that have designed and implemented successful EE policies and regulations; and share international experience of how policymakers and regulators can create an enabling environment to accelerate EE investments by providing the appropriate mechanisms and incentives for implementation. The Workshop will also serve as an input for the Special Roundtable to Develop a Regional Plan of Action on Clean Energy Governance and Regulation to be held on June 24th.

Participants: The Workshop will bring together a rich collection of policy-makers, regulators, private sector representatives, academes, civil society representatives, and other energy experts from Australia, Brazil, India, Indonesia, the Peoples' Republic of PRC, the Philippines, Singapore, Thailand, the United States, Vietnam, among others countries, to share cutting-edge experiences, thinking, and practices on clean energy regulation and governance. Their sharing of experience will be supported by key development partners, including Danish International Development Agency (DANIDA), GE Energy, the International Energy Agency (IEA), the International Partnership for Energy Efficiency Cooperation (IPEEC), the Limaye Foundation, the Regulatory Assistance Project (RAP), the Sustainable Energy Regulatory Network (SERN), the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and the World Resources Institute (WRI).

Approach: EE solutions are often the most cost-effective approaches to supplying energy demand and meeting our energy needs, and EE solutions contribute to climate change mitigation; yet uptake has been slow, particularly in Asia, relative to the need. The workshop will focus on the political, governance and financial constraints to this uptake, and consider the policy, regulatory, and financial solutions to overcome these constraints. The workshop will focus broadly across the range of EE options and will emphasize EE in power sector regulation, which continues the electricity regulatory theme of last year's Dialogue.

Schedule at a Glance

Day 1, Monday – June 20, 2011	
8:15 am - 8:45 am	Registration for the Asia-Pacific Dialogue on Clean Energy Governance and Regulation Workshops
8:45 am – 9:30 am	Joint Opening Plenary: Introduction to the Dialogue and the Energy Efficiency and Renewable Energy Workshops Participants will then break into separate workshops on Energy Efficiency and Renewable Energy
9:30 am – 10:00 am	Break
10:00 am – 12:30 pm	Session 1: Policy Drivers and Institutional Frameworks for Energy Efficiency
12:30 pm – 2:00 pm	Lunch Break
2:00 pm – 5:30 pm	Session 2: The Role of Governance, Policy, and Regulation in Facilitating Energy Efficiency
6:00 pm	Reception Sponsored by GE Energy
Day 2, Tuesday – June 21, 2011	
09:00 am – 12:30 pm	Session 3: Regulation to Promote Energy Efficiency and Demand-Side Management
12:30 pm – 2:00 pm	Lunch Break
2:00 pm – 6:00 pm	Session 4: Policy and Regulatory Mechanisms to Facilitate Innovative Financing Models
6:00 pm	Reception Sponsored by Vestas

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June 20-21, 2011



Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation



Collaborating Partners



GE Energy



International Energy Agency



Limaye Foundation



sern
a reep initiative



Renewable Energy Policy and Regulation: Workshop on Feed-in Tariff Policy

Background. The Renewable Energy Policy and Regulation Workshop is one of the events under the Second Annual Asia-Pacific Dialogue on Clean Energy Policy and Regulation. The first Dialogue was held in June 2010 initiated by the Asian Development Bank (ADB) and the US Agency for International Development (USAID) in June 2010, with the International Energy Agency (IEA), the Regulatory Assistance Project, and the World Resources Institute as development partners. At that Dialogue partners and participants recognized the urgent need for clean energy governance, policy and regulation to spur reductions in greenhouse gas emissions, to expand energy access, to reduce regional pollution, and to increase energy security. While renewable energy sources have been identified to play an important role in meeting these sustainable development objectives, existing policies and regulations in the region do not provide sufficient incentives to accelerate their development. This year's workshop focuses on feed-in tariffs (FITs) – a policy instrument globally recognized to be cost-effective in stimulating investments for rapid deployment of renewable energy.

Objectives. A number of emerging Asian economies, in their search to enhance energy security, provide energy access, and reduce environmental and greenhouse gas emissions, have recently introduced or are planning to establish renewable energy feed-in tariff policies and regulations. This workshop aims:

- to discuss lessons that could be learned from the implementation of feed-in tariff policies in advanced economies as well as the more recent experiences in Asian countries;
- to provide guidance to developing economies that plan to initiate or are in the process of designing feed-in tariff policies in order to avoid the pitfalls encountered to date and to leapfrog in policy development and implementation; and
- to provide a venue for networking between policy-makers, regulators and feed-in tariff practitioners.

The Workshop will provide inputs to the Special Roundtable on Clean Energy Governance Policy and Regulation, to be held on 24 June.

Participants. The Dialogue will bring together policy-makers, regulators, private sector representatives, academics, civil society representatives and other energy experts from advanced and emerging Asian economies, to share cutting edge experiences, thinking and practice on clean energy policy, regulation and governance.

Organizers. The Workshop is organized by the Asian Development Bank and the World Resources Institute, in partnership with the United States Agency for International Development, the Regulatory Assistance Project, the International Energy Agency, and the Sustainable Energy Regulatory Network (SERN).

Schedule at a Glance

Day 1, Monday – June 20, 2011	
8:15 am	Registration
8:45 am	Joint Opening Plenary: Introduction to the Dialogue and the Energy Efficiency and Renewable Energy Workshops (Participants will then break into separate workshops on Energy Efficiency and Renewable Energy)
9:30 am	Break
10:00 am	Session 1: Renewable Energy Policies and Feed-in Tariff in Asia and the Pacific
11:00 am	Session 2: Feed-in Tariff Experiences in Advanced Economies
12:30 pm	Lunch Break
2:00 pm	Session 3: Feed-in Tariff Experiences in Emerging Asian Economies
3:30 pm	Coffee Break
4:00 pm	Session 3 (continued): Feed-in Tariff Experiences in Emerging Asian Economies
5:30 pm	Housekeeping and Announcements
6:00 pm	Reception Sponsored by GE Energy
Day 2, Tuesday – June 21, 2011	
9:00 am	Challenges for Policymakers and Regulators: Introduction to Day 2 of the FIT Policy Workshop
9:15 am	Session 4: Addressing Technical Challenges
10:30 am	Coffee Break
11:00 am	Session 5: Best Practices in FiT Design: Technology, Cost and Consumer Impacts
12:30 pm	Lunch Break
2:00 pm	Session 6: Best Practices In FiT Regulation I: Setting the Right Rates
3:30 pm	Coffee Break
4:00 pm	Session 7: Best Practices in FiT Regulation II: Driving Innovation and Cost Reductions
5:30 pm	Closing Session
6:00 pm	Reception Sponsored by Vestas

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June 20-21, 2011



SARI / Energy

2nd ADB Quantum Leap in Wind Conference

Collaborating Partners



Overcoming Challenges and Building Momentum in Asia

This event will bring together participants from different regions of Asia and the Pacific involved in wind power development to discuss the current status with a close examination of the challenges in ADB's Member Countries. The first day is dedicated to country presentations on wind power development, identifying current installed capacity, targets, and plans, while highlighting supporting regulations and fiscal incentives already in place. A follow on publication on the country wind profiles will be done in collaboration with GWEC and USAID/SARI Energy to be released later this year. The second day will tackle major hurdles encountered in project development, while identifying areas for improvement, and recommending possible solutions.

June 20, 2011, Day 1 Program: Wind Energy Status in Asia

12:30 pm - 1:30 pm	Workshop Registration Introduction Plenary Moderator (Speaker)
1:30 pm - 1:45 pm	Welcome Remarks Bindu Lohani, VPFA, ADB
1:45 pm - 2:00 pm	Introduction and Objectives Xianbin Yao, ADB
2:00 pm - 2:15 pm	Keynote Address: Overview of Global and Asia Pacific Wind Market Steve Sawyer, GWEC
2:15 pm - 3:30 pm	Country Wind Energy Status: Session 1 B. Byambasaikhan, Advisor MOE (Mongolia) Jose Layug, USEC, DOE (Philippines) Sutubutr Twarath, DEDE (Thailand) Md. Fazlur Rahman, Pan Asia Power Services, Ltd. Athwel Sugathapala, Director General, Sri Lanka Sustainable Energy Authority (Sri Lanka)
3:30 pm - 4:00 pm	Break
4:00 pm - 5:00 pm	Country Wind Energy Status: Session 2 Hasmukh Patel, FEA (Pacific Islands) Imtiaz Hussain Qazi, Secretary and Zargham Eshaq Khan Joint Secretary (Power), Ministry of Power and Water (Pakistan) Makazhanova Aida, MEP (Kazakhstan) Mark Allington, ICFI (Central and West Asia Wind Resource Maps, Utility, Methodologies, and Next Steps)

5:00 pm - 5:30 pm	Country Wind Energy Status: Session 3 - The Two Large Countries In Asia V. Subramanian, CEO & Secretary General, INWEA (India) Hu Runqing, ERI, NDRC (PRC)
5:30 pm - 5:45 pm	Summary and Closing Remarks Day 1 Yongping Zhai, Director, ADB
6:30 pm - 8:00 pm	Reception for All Participants at ADB Auditorium Sponsored by GE

June 21, 2011, Day 2 Program: Sharing Lessons and Best Practices

9:00 am - 9:15 am	Introduction Plenary Moderator Welcome Remarks – Day 2 Philip Erquiaga, ADB
9:15 am - 9:30 am	Summary of Day 1, Program Overview and Morning Plenary Session Introduction Jitendra (Jitu) Shah, ADB
9:30 am - 9:50 am	Energy Security, Renewables and Role of Wind Hisashi Hoshi, Director, IEE
9:50 am - 10:10 am	Policy Prescription for a Quantum Leap in Wind in Asia Jannik Termansen, Vestas
10:10 am - 10:30 am	Why Policy Alone is not Enough for Developers Ramon Terrones, Gamesa
10:30 am - 10:50 am	Money, Money Everywhere - Why Can't I Get my Project Financed? Sung Woo Kim, Samjong KPMG Advisory
10:50 am - 11:00 am	Q & A and Instructions for Breakout Session Grace Alindogan, ADB
11:00 am - 11:30 am	Break
11:30 am - 12:30 pm	Four Parallel Breakout Sessions for the Topics Discussed in Plenary Energy Security and Role of Wind Moderator: Ashok Bhargava, ADB Rapporteur: Cindy Tiangco, ADB Policy Prescription Moderator: Shruti Shukla, GWEC Rapporteur: Paul Hattle, ADB Why Policy Alone is Not Enough Moderator: Chintan Shah, Suzlon Rapporteur: Anthony Maxwell, ADB Money Money Everywhere Moderator: Jesse O. Ang, IFC Rapporteur: Siddhartha Shah, ADB
12:30 pm - 2:00 pm	Lunch Break
2:00 pm - 2:10 pm	Introduction Plenary Moderator
2:10 pm - 2:30 pm	Designing Effective Incentives GM Pillai, Wise India

2:30 pm - 2:50 pm	Importance of Supporting Infrastructure and Other Factors Soren Karkov, DNV
2:50 pm - 3:10 pm	Role of Institutions and Regional Cooperation Chunhua Li, Goldwind
3:10 pm - 3:30 pm	Banking on Wind – Resource Assessment Graham Slack, GI Garrad Hassan
3:30 pm - 4:00 pm	Break
4:00 pm - 5:00 pm	<p>Four Parallel Breakout Sessions for the Topics Discussed in Plenary</p> <p>Designing Effective Incentives Moderator: Rimtaig Lee, KWEA Rapporteur: ADB</p> <p>Project Siting Moderator: Mads-Peter Holk Poulsen, Siemens Rapporteur: Mukhtor Khamudkhanov, ADB</p> <p>Role of Institutions Moderator: Grayson Heffner, IEA Rapporteur: ADB</p> <p>Banking on Wind Moderator: Pramod Jain, I-Windenergy Rapporteur: Peter Hayes, ADB</p>
5:00 pm - 5:50 pm	Breakout Summary Presentations (5 Mins. Each) and Q & A Tbc ADB
5:50 pm -6:00 pm	Closing Remarks Pil-Bae Song, ADB
6:30 pm - 8:00 pm	Reception for All Participants at ADB Auditorium Sponsored by Vestas

GET CONNECTED!

Register at the Wind Connection Booth to setup meetings with potential clients, suppliers, and financiers while you are in Manila during the week of June 20th 2011. Find solutions and resolve your questions and doubts.

June 21, 2011



Energy for All

Invitation Only
8:30 am - 1:00 pm

Energy for All Partnership Steering Committee Meeting

Launched by ADB at the Asia Clean Energy Forum in 2009, the Energy for All Partnership brings together diverse stakeholders onto a common platform to share ideas and information and to collaborate on projects, with a target to extend access to energy to 100 million people in Asia and the Pacific by 2015. Steering committee members will gather in Manila to assess the progress of the partnership and to recommend strategies for engaging the private sector, scaling up bankable projects, and leveraging additional investment to expand access to energy for all.

This event is open to Energy for All Partnership steering committee members only. For more information about the partnership, visit www.energyforall.info.

2:00 pm - 6:00 pm

Energy for All Investor Forum

The Energy for All Partnership will host the first Energy for All Investor Forum, which provides a unique opportunity for investors and project developers to meet and discuss possible collaboration. The Investor Forum will showcase energy access projects and concepts developed within the Energy for All Partnership working groups or in collaboration with partners.

The Investor Forum will consist of three sessions. The first session will feature project models that are replicable and regional in scope. These are funded and implemented by partnerships between development agencies and nonprofit organizations with a view that once the financial and institutional barriers are addressed, private enterprises can take over and sustain the model. The second session will showcase financial mechanisms that make funding more accessible to a wide spectrum of organizations in the access to energy space. The event will conclude with the Energy for All Marketplace – a poster session open to all projects in the Energy for All Partnership project pipeline.

For questions and further inquiries, please contact:

Coy Navarro

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Asian Development Bank
cnavarro.consultant@adb.org

June 22, 2011



ASEAN Energy Regulator's Network Meeting

At the First Asia-Pacific Dialogue on Clean Energy Governance and Regulation in June 2010, participating regulators from Southeast Asia endorsed the idea of an ASEAN Energy Regulators' Network through a Statement resulting from the Dialogue. Subsequently, at the Senior Officials Meeting on Energy (SOME) during the 28th ASEAN Ministers on Energy Meeting (AMEM) in July 2010 in Da Lat, Viet Nam, the Senior Officials unanimously endorsed an ASEAN Energy Regulators' Network as supportive of ASEAN countries' national and regional energy sector goals. Building on the endorsements from the Dialogue and SOME, ASEAN, an ASEAN Energy Regulators' Network Meeting will be conducted in conjunction with ASEAN at the sponsored Asia Clean Energy Forum in Manila during 20-24 June 2011. Energy Regulators from the Association of South East Asian Nations (ASEAN) will attend events at the Asian Clean Energy Forum at the ADB headquarters in Manila during 20-24 June 2011.

An ASEAN Energy Regulators' Network Meeting will be held on the sidelines of the Asia Clean Energy Forum on Wednesday June 22, 2011 from 2:00 – 5:30 pm.

For more information about the meeting, contact:

Kala Mulqueeny

Senior Counsel, Office of the General Counsel, Asian Development Bank (ADB), kmulqueeny@adb.org

cc Mark Villocero

Wednesday, June 22, 2011

2:00 pm	<p>SESSION 1: OPENING AND WELCOME REMARKS (30 MINUTES)</p> <p>TBD, Asian Development Bank</p> <p>Speaker from the Philippines</p> <p>Speaker from Vietnam</p>
2:30 pm	<p>SESSION 2: AN ASEAN ENERGY REGULATORS' NETWORK: NEED AND CONTEXT</p> <p>Kala Mulqueeny Senior Counsel, Office of the General Counsel, Asian Development Bank (ADB)</p> <p>Speaker from Thailand</p>
3:30 pm	Break
4:00 pm	<p>SESSION 3: THE ASEAN ENERGY REGULATORS' NETWORK: MISSION, VISION, AND STRUCTURE</p>
5:00 pm	<p>SESSION 4: NEXT STEPS, SINGAPORE MEETING AND WORKSHOP, AND TIMELINE</p> <p>Speaker from Singapore</p>
5:30 pm	Closing Remarks

June 22, 2011



CCS Ready Workshop

Purpose: The purpose of the workshop is to provide participants with an introduction to the role that CCS Ready Policy can play as part of a country's climate change policies. The workshop will discuss what CCS Ready is, the range of policy measures and best practices that can be implemented to prompt the design, permitting and construction of CCS projects when designing or building a new fossil fuelled energy or industrial plant.

2:00 pm	WELCOME AND INTRODUCTION Alice Gibson Capacity Development Manager, Global CCS Institute Welcome and outline of the workshop
2:10 pm	WHAT IS CCS READY? Alice Gibson <ul style="list-style-type: none">• Define CCS Ready, identify and explain the necessary regulatory and economic drivers• Status of CCS-R and existing legislation
2:40 pm	MINIMUM REQUIREMENTS AND RECOMMENDED PRACTICES FOR POLICYMAKERS AND REGULATORS Ian Havercroft Senior Advisor, CCS Regulations, Global CCS Institute <ul style="list-style-type: none">• Discussion and presentation on steps that could be taken to achieve CCS Ready
3:10 pm	ALSTOM: AN INDUSTRY PERSPECTIVE ON CCS Gwen Andrews Vice President, Power and Environment Policies, Asia and Oceania
3:30 pm	Break
4:00 pm	CCS-READY IN SOUTHEAST ASIA - PLENARY SESSION <ul style="list-style-type: none">• Panel Discussion on CCS Ready considerations in:<ul style="list-style-type: none">• Indonesia• Philippines• Thailand• Vietnam <p>ADB to give a short overview presentation, each country representative to give a 10-15 minute presentation followed by Panel discussion.</p>
5:20 pm	THANK YOU AND CONCLUSION Alice Gibson
5:30 pm	End of Sessions

June 24, 2011

Clean Energy Forum: Renewable Energy Development in South Asia

CHAIR

Yongping Zhai

Director, Energy Division, South Asia Department, Asian Development Bank

This session include four presentations encompassing important contemporary energy issues of South Asian region. The first presentation provides an overview of prevailing policy and regulatory measures, identifying gaps and the necessary improvements for renewable energy development in South Asia. The second paper discusses theoretical and practical difficulties of estimating climate change benefits to be incorporated in the cost benefit analysis of solar power projects, and proposes a way to resolve the issue. The third presentation discusses the potential of using biofuels for greater energy security and inclusive economic growth in India. The paper shows that in addition to supply side solutions, energy demand management and food productivity increase can provide promising results. The fourth paper will review hydropower development in Nepal and provide an opportunity to discuss new approaches and prospects for new investment in the sector.

POLICY AND REGULATORY INSTRUMENTS FOR RENEWABLE ENERGY DEVELOPMENT IN SOUTH ASIA

Priyanth Wijayathunga

Senior Energy Specialist, Energy Division
South Asia Department, Asian Development Bank

ECONOMICS OF SOLAR POWER: DO SOLAR POWER PROJECTS MEET THE COST BENEFIT CRITERION?

Herath Gunatilake

Principal Energy Economist, Energy Division
South Asia Department, Asian Development Bank

ENERGY SECURITY, FOOD SECURITY, AND ECONOMICS OF BIOFUELS IN INDIA

Len George

Energy Specialist, Energy Division
South Asia Department, Asian Development Bank

Herath Gunatilake

Principal Energy Economist, Energy Division
South Asia Department, Asian Development Bank

HYDROPOWER DEVELOPMENT IN NEPAL

Lal Shanker Ghimire

Joint Secretary, Ministry of Finance, Nepal

ABSTRACTS

Policy and Regulatory Instruments for Renewable Energy Development in South Asia

Policy and regulatory environments conducive to the development of the renewable energy sector are vital for the growth of renewable energy sector in South Asia. This is particularly important since many of the renewable energy based power generation systems are not financially viable in comparison to other available grid electricity options. At the same time, the traditional power generations systems have significant hidden subsidies and their negative environmental externalities are largely ignored when estimating the financial cost of production. Because of these distortions markets will not support the renewable energy development and carefully balanced policies and regulatory instruments are necessary to enable renewable energy development for enhancing access to energy and mitigating climate change in South Asian countries.

Economics of Solar Power: Do Solar Power Projects Meet the Cost Benefit Criterion?

Solar power has been receiving the increased attention of the policy maker because: i) it enhances energy security of energy deficit countries; ii) it provides a valuable option for mitigating climate change. High cost is one of the main barriers for up scaling the use of solar energy. Given the available technology, solar power may not a profitable for individuals or firms. However, from the society's point of view solar power may generate adequate benefits, if the avoided climate change costs can be properly incorporated in to a cost benefit analysis. This paper shows, taking an example of a solar park in India, that the conventional cost benefits analysis without incorporating the environmental costs cannot be used to justify the solar power projects. Incorporation of local environmental benefits does not make the solar power project economically feasible either. Switching CDM price is large and given the current CDM prices and uncertainties, CDM benefits seem to be inadequate to justify the solar power project. The paper argue for using the renewable energy certificate (solar certificate) price as a proxy for climate change benefits and demonstrate that solar project become economically feasible with prevailing solar certificate prices in India.

Energy Security, Food Security, and Economics of Biofuels in India

The emergence of biofuels as a renewable energy source offers opportunities for significant climate change mitigation and greater energy independence for many countries. At the same time, biofuel represents the possibility of substitution between energy and food. For developing countries like India which imports over 75% of its crude oil, fossil fuels pose two risks – global warming pollution and negative economic impacts of oil price hikes. This paper examines the India's options for managing energy price risk in three ways: biofuel development, energy efficiency promotion, and food productivity improvements. The overall results suggest that biodiesel shows promise as a transport fuel substitute that can be produced in ways that fully utilize marginal agricultural resources and hence promote rural livelihoods. First generation bioethanol, by contrast, appears to have a limited ability to off-set the impacts of oil price hikes. Combining the biodiesel expansion policy with energy efficiency improvements and food productivity increase proved to be a more effective strategy that enhances both energy and food security, help mitigate climate change and cushions the economy against oil price shocks.

Hydropower Development in Nepal

Nepal is estimated to have technical potential of 80,000 MW of hydropower generation capacity and about 43,000 MW of capacity is expected to be economically viable. However, only about 700 MW has been actually developed to date, all for domestic use. In the meantime time the country is undergoing severe power shortages, particularly during the dry season when only about half of its peak demand of 900MW can be met with the existing generation and power imports from India. India itself requires major power generation capacity additions and power imports to satisfy its own needs. Considering these, there is an enormous opportunity to develop the hydropower sector in Nepal not only for domestic use, but also for power export as a major foreign exchange earner. In this regard Nepal needs to substantially increase both public and private sector investment in the hydropower sector. The presentation will cover the government's viewpoint of the for hydropower development in Nepal and a pipeline of projects that Nepal seeks to develop. The related policy and regulatory environment and how it would develop in the immediate future to accommodate rapid development of the sector will also be examined. The presentation will provide an opportunity to discuss new approaches to hydropower development in Nepal and prospects for new investment in the sector.

June 24, 2011



Asia-Pacific Dialogue on Clean Energy Governance, Policy, and Regulation



Collaborating Partners



GE Energy



International Energy Agency



International Partnership for Energy Efficiency Cooperation



a reep initiative

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Economic and Social Commission for Asia and the PacificWORLD
RESOURCES
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Special Roundtable to Develop a Regional Plan of Action for Clean Energy Governance and Regulation

Background. This Roundtable is part of the Second Annual Asia-Pacific Dialogue on Clean Energy Governance and Regulation, which was initiated by the Asian Development Bank (ADB) and the US Agency for International Development (USAID) in June 2010. Participants in the 2010 Dialogue recognized the urgent need for action on Clean Energy governance, policy, and regulation to spur reductions in greenhouse gas emissions, expand energy access, reduce regional pollution, and increase energy security.¹

Objectives of the Policy Roundtable. The Roundtable will bring together key regional partners and stakeholders in the public and private sectors, and civil society, to develop a Regional Plan of Action for Clean Energy Governance, Policy, and Regulation. The Roundtable will review lessons learned from previous Dialogue events and seek to reach consensus on a priority set of regional actions that can be taken to strengthen institutional and technical capacity to effectively design, implement, monitor, and evaluate clean energy policies and regulations. The Roundtable will also seek interest and commitments for continued participation in a sustained and dynamic regional dialogue. The outcomes of the Roundtable are expected to include:

- identification of a number of exemplary clean energy policies and regulations from the region, based on Dialogue events;
- identification of priority clean energy policy and regulatory approaches and instruments where capacity building activities are needed;
- description of how the Dialogue can be strengthened to help strengthen capacity building in the region, and to potentially cooperate with other initiatives; and
- identification of training opportunities, networking and capacity-building activities, and related mechanisms that could be implemented through the Dialogue and its partners in the Asia-Pacific region over the next 1-5 years.

The Roundtable is open to stakeholders interested in discussing steps that can be taken to inform the Asia-Pacific Dialogue and to contribute to, and participate in, regional activities such as information and knowledge exchange, training and capacity-building, twinning, research on best practices and lessons learned on governance, policy, and regulation, design and evaluation, and pilot initiatives.

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Peter du Pont, Ph.D.

USAID Contractor, International Resources Group (IRG)
ECO-Asia Clean Development and Climate Program
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¹ The 2010 Dialogue was organized in cooperation with the International Energy Agency (IEA), the Regulatory Assistance Project (RAP), and the World Resources Institute (WRI). The agreement resulting from the Dialogue, The Asia and the Pacific Energy Policy-Makers and Regulators' Statement on Clean Energy and Climate Change, can be found at: www.cleanenergyasia.net/sites/default/files/resources/DialogueStatement2010.pdf.

Roundtable Agenda

Friday, June 24, 2011	
1:45 pm	<p>Introduction to the Special Policy Roundtable of the Asia-Pacific Dialogue on Clean Energy Governance and Regulation</p> <p>WELCOME REMARKS Woochong Um Asian Development Bank</p> <p>Orestes Anastasia USAID Regional Development Mission for Asia</p>
2:10 pm	<p>Reporting results from Dialogue Events</p> <p>ENERGY EFFICIENCY WORKSHOP Peter du Pont USAID Contractor, Chief of Party, ECO-Asia Clean Development and Climate Program</p> <p>FEED-IN TARIFF Aiming Zhou Asian Development Bank</p>
2:30 pm	<p>Vision for a Dialogue on Clean Energy Governance, Policy, and Regulation in Asia and the Pacific</p> <p>FACILITATOR Kala Mulqueeny Senior Counsel, Office of the General Counsel, Asian Development Bank</p> <p>POLICYMAKER/UTILITY PERSPECTIVE Napaporn Phumaraphand Director, DSM Office, Electricity Generating Authority of Thailand (EGAT)</p> <p>REGULATOR PERSPECTIVE Yang Jun Deputy Director, Department of International Cooperation State Electricity Regulatory Commission of PRC</p> <p>CIVIL SOCIETY PERSPECTIVE Shantanu Dixit Prayas Institute, India</p> <p>BUSINESS PERSPECTIVE Kristin Paulson Manager, ASEAN Energy Policy, GE Energy, Singapore</p> <p>INVESTOR PERSPECTIVE Pankaj Sehgal Managing Director, SUN Group, India</p> <p>INTERNATIONAL PERSPECTIVE Amit Bando Managing Director, International Partnership for Energy Efficiency Cooperation</p> <p>MULTILATERAL PERSPECTIVE Sandra Nicoll <i>(Invited)</i> Director, Public Management, Governance, and Participation Division, Asian Development Bank</p>
4:00 pm	<p>Roundtable Wrap-up Session: Communique on Regional Road Map for Clean Energy Governance and Regulation in the Asia-Pacific Region</p> <p>FACILITATOR Peter du Pont USAID Contractor, Chief of Party, ECO-Asia Clean Development and Climate Program</p>

June 22-24, 2011

Clean Energy Marketplace

The Clean Energy Marketplace provides an opportunity for Asia Clean Energy Forum participants to learn about some of Asia's most promising clean energy technologies, businesses, and projects in a format that is conducive for fostering both formal and informal dialogue, networking, and new partnerships. The Clean Energy Marketplace will present companies' ideas and solutions in a poster-session format in the Cafeteria Hallway in the Asian Development Bank headquarters building throughout the Asia Clean Energy Forum between 22 June to 24 June.

This year's Clean Energy Marketplace presenters are from all around the Asia-Pacific region and include companies in renewable energy modeling, cellulosic ethanol, waste to heat recovery, air pollution and greenhouse gas modeling, building energy efficiency, and vehicle fuel efficiency.

Company	Project Title	Presenter
3TIER Pacific Rim Pty. Ltd.	Understanding Your Renewable Resource through State-of-the-Art Modeling	Cameron Potter
Chempolis, Asia & Pacific	3G Biorefinery for the Production of Non-Food Cellulosic Ethanol and Biochemicals	Paula Paananen; Pasi Rousu
Clean Air Initiative for Asian Cities Center, Manila	Air Pollution and GHG Indicators in Developing Low-Emission Cities in Asia	Kaye Patdu; Eryn Gayle de Leon
Elk Partners	Funding Global Clean Energy Innovation and Implementation	Christianne Carin
EzNO Pte. Ltd.	Biomass to Syngas Conversion	Tan Lien Chiow
German Development Cooperation (GIZ) & FECC of MOA PRC	Innovative Approaches and Business Models to Promote Large Scale Biogas Plant Operations in PRC	Bernhard Raninger
SEE-Tech Solutions Pvt. Ltd.	Improving Building Energy Efficiency by Retrofitting Air-Conditioning Condensers	Milind Chittawar
TJB GasOil Tech	Fuel Energy Saving Device (Gas Generator Power Booster)	Teodorico Badua
Westland Consulting	Waste Management and Recovery of Clean Energy	Anil Chibber
International Power Producers Forum (IPPF)	Non-profit support organization to improve investment for environment for independent power generators.	Joel Laykin

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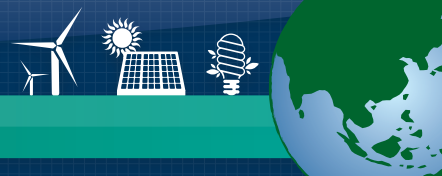
Nelly Sangrujiveth

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ASIA CLEAN ENERGY FORUM 2011

NEW BUSINESS MODELS AND POLICY DRIVERS: BUILDING THE LOW-CARBON FUTURE

Manila • June 22-24, 2011



Day 1, June 22, 2011

- Plenary Sessions
- Policy and Regulation
- Financing and Investment
- Innovative Business Models
- Energy for All

Session 1 (Opening Plenary): A Call to Action: Accelerating the Clean Energy Revolution

9:00 am - 10:30 am

This opening session will address the key challenges facing Asia and the Pacific region. To accelerate the shift toward an energy-efficiency and renewable energy regime, the presenters will share their knowledge and experience, and will identify strategies that respond to these challenges.

FORUM INTRODUCTION

Haruhiko Kuroda

President, Asian Development Bank

Mr. Haruhiko Kuroda is the President of the Asian Development Bank (ADB) and the Chairperson of ADB's Board of Directors. He was elected President by ADB's Board of Governors in November 2004 and was reelected in November 2006 another five-year term. Before joining ADB, Mr. Kuroda was Special Advisor to the Cabinet of Japanese Prime Minister Junichiro Koizumi and a professor at the Graduate School of Economics at Hitotsubashi University in Tokyo. In a career spanning nearly four decades, Mr. Kuroda has represented Japan's Ministry of Finance at a number of international monetary conferences as Vice Minister of Finance for International Affairs. During his tenure, Mr. Kuroda helped design and implement the US\$ 30 billion Miyazawa Initiative-Japan's response to Asian economies hit by the 1997-1998 financial crisis. Additionally, under his leadership, Japan helped Asian nations establish the Chiang Mai Initiative, a network of currency swap agreements designed to avert another crisis. Mr. Kuroda holds a B.A. in Law from the University of Tokyo and a Master of Philosophy in Economics from the University of Oxford.

KEYNOTE ADDRESS

Ambassador Robert M. Orr

United States Executive Director (Ambassador), Asian Development Bank

Robert Orr was confirmed by the Senate as United States Executive Director with rank of Ambassador to the Asian Development Bank (ADB) in September 2010. From 2007-2010, he was Chairman of the Board of the Panasonic Foundation and concurrently Vice Chair of the National Association of Japan-America Societies, a member of the Board of Trustees of J.F. Oberlin University, and a member of the Board of the East-West Center Foundation. Prior to this, Ambassador Orr was President of Boeing Japan and held positions as Vice President and Director of European Affairs for Motorola in Brussels, and Vice President of Government Relations for Motorola in Japan. Ambassador Orr has also spent many years in academia, and was a professor of Political Science at Temple University in Japan. His book, *The Emergence of Japan's Foreign Aid Power*, won the 1991 Ohira Prize for best book on the Asia Pacific. Ambassador Orr holds a B.A. in History, cum laude, from Florida Atlantic University, an M.A. in Government from Georgetown University, and a Ph.D. in Political Science from Tokyo University.

KEYNOTE ADDRESS

Amory Lovins (via video feed)

Chairman, Rocky Mountain Institute

Reinventing Fire: Asian Development without Needing Oil or Coal

Amory Lovins is Chairman and Chief Scientist of the Rocky Mountain Institute. For four decades, he has worked in energy policy and related areas. Lovins worked professionally as an environmentalist in the 1970s, and since then as an analyst of a "soft energy path" for the United States and other nations. He has promoted

energy efficiency, the use of renewable energy sources, and the generation of energy at or near the site where the energy is actually used. Lovins has also advocated a “negawatt revolution,” arguing that utility customers don’t want kilowatt-hours of electricity; they want energy services. In the 1990s, his work with Rocky Mountain Institute included the design of an ultra-efficient automobile, the Hypercar. Lovins has received ten honorary doctorates and won many awards. He has provided expert testimony in eight countries, briefed 19 heads of state, and published 29 books. These books include: *Winning the Oil Endgame*, *Small is Profitable*, and *Natural Capitalism*. In 2009, *Time* magazine named Lovins as one of the world’s 100 most influential people.

10:30 am - 11:00 am

Break

KEYNOTE ADDRESS

Mohamed El-Ashry

Senior Fellow, UN Foundation and Chairman, REN21

Scaling-up Renewables for Energy Security and Sustainable Development

Mohamed T. El-Ashry is Senior Fellow with the UN Foundation and Facilitator of the Global Leadership for Climate Action (GLCA), which he organized in 2007. He is also the Chairman of the Renewable Energy Policy Network for the 21st Century (REN21). Prior to founding GLCA, Dr. El-Ashry helped establish the Global Environment Facility and served as Chairman and Chief Executive Officer from 1994 to 2003. Dr. El-Ashry also held positions as Chief Environmental Adviser to the President and Director of the Environment Department at the World Bank, as Senior Vice President of the World Resources Institute, and as Director of Environmental Quality with the Tennessee Valley Authority. He has also served as Senior Environmental Adviser to UNDP, as Special Adviser to the Secretary General of the 1992 U.N. Earth Summit, as a member the International Commission on Climate Change and Development, and as a member of the World Water Council. Dr. El-Ashry has a B.S. Degree, with honors, from the University of Cairo, and M.S. and Ph.D. in Geology from the University of Illinois.

KEYNOTE ADDRESS

John Byrne

Distinguished Professor, University of Delaware

A New Energy Strategy for a New Climate

John Byrne is Director of the Center for Energy and Environmental Policy (CEEP) and Distinguished Professor of Energy and Climate Policy at the University of Delaware. Since 1992, he has contributed to Working Group III of the United Nations-sponsored Intergovernmental Panel on Climate Change (IPCC), whose work received the 2007 Nobel Peace Prize. He is co-founder and co-executive director of the Joint Institute for a Sustainable Energy and Environmental Future, an innovative research and policy advocacy organization headquartered in the Republic of Korea with the mission of promoting sustainable policy options in East Asia. He is also a founding member and first research chair for the International Solar Cities Initiative – a pioneering program to assist cities around the world in building sustainable futures. In 2011, he was appointed Distinguished Professor at the Daegu Gyeongbuk Institute of Science and Technology, a new university created by the Republic of Korea to lead its plan for green energy technology and policy development.

12:30 pm - 2:00 pm

Lunch Sponsored by Global CCS Institute

Session 2: Voluntary, Market-Based Approaches to Drive Exemplary Building Energy Performance

Breakout Session
2:00 pm - 3:30 pm

Recent experience has shown that there are a variety of ways to move the market toward improved building energy performance. This session will address the interplay between minimum standards and voluntary reach standards and several emerging approaches to achieve exemplary performance. The discussion green building certification, building energy performance rating, and development of smarter buildings that can integrate with the smart grids of the future.

CHAIR

Orestes Anastasia

Regional Environment Advisor, USAID Regional Development Mission for Asia

SPEAKERS

Jennivine Kwan

Vice President, International Operations, US Green Buildings Council

Presentation Title: LEED and the Total Building Lifecycle: What Next for Global Leaders?

This presentation will look at the rise of global green building leadership and how LEED can be a common language and useful tool for leaders around the world to drive market transformation throughout the entire lifecycle of a building. We will include a look at how local governments have successfully used voluntary approaches to advance beyond minimum standards towards exemplary performance and look at what the transition from the era of "inputs" to the era of "outputs" means for the built environment. Vision. Innovation. So, what's next?

Donald Anderson

Vice President, ICF International

Presentation Title: Building Energy Performance Rating – Critical Component to Successful Voluntary Programs

This presentation will focus on energy performance rating or "benchmarking" as a critical component of successful voluntary green and energy-efficient buildings initiatives. It will provide an overview of building benchmarking and discuss its role in driving large-scale improvements in building sustainability performance. It will share case studies and lessons from successful voluntary initiatives, such as ENERGY STAR® and US Green Building Council's Leadership in Energy and Environmental Design (LEED) program, and discuss opportunities and benefits from integration of benchmarking into existing regulatory/policy frameworks in Asia.

Rana Yusuf

Director, Rating & Technology, Green Building Council of Indonesia

Presentation Title: Greenship Rating Tools: The Challenge & Barriers for Building Energy Efficiency in Indonesia - Synopsis:

- The Energy efficiency movement in Indonesia has been moving forward significantly for the last three years.
- Government initiative and Greenship Rating Tool's role to boost building industry for improving their energy performance.
- The challenge, barriers and opportunity to achieve the exemplary building performance in Indonesias

Malcom E. Verdict

Associate Director, Texas A&M University, Energy Systems Laboratory

Presentation Title: Building Low Carbon Generation through Smarter Buildings and a Smart Grid

This presentation will report on opportunities and obstacles in implementing smarter buildings, technologies/appliances connected to a smart grid. The focus of the presentation will be on opportunities in the U.S. These smarter buildings and technologies are estimated to have the potential to reduce demand in new and existing buildings by 20 - 50%.

Session 3: Using Public Investment to Leverage Private Capital

Breakout Session
2:00 pm - 3:30 pm

This panel discussion will explore the interaction between international public finance, carbon financing mechanisms, and local support mechanisms and measures for stimulating low-carbon investment in the developing world, with a focus on investment in Asia.

CHAIR

Steven Gray

Vice President, Climate Change Capital

SPEAKERS

Isabelle Vincent

Agence Française de Développement

Presentation Title: Investing in Policy Transformation : Experience from a Development Bank

Ms. Vincent will share AFD's experience with systematically linking investment financing in Asia with support for policy transformation at all levels (national, city, sector, and project levels). Topics covered will include financing national climate change policy in Indonesia and Vietnam, strategic environmental planning in the GMS energy sector, and credit lines to banking institutions that leverage clean energy policies throughout the private sector.

Tao Ren

Investment Officer, Global Energy Efficiency & Renewable Energy Fund
European Investment Bank

Presentation Title: Financing Renewable Energy and Energy Efficiency Funds in Frontier Markets: First Results of a Public-Private Partnership Approach

European Investment Bank (EIB) has been using public private partnerships (PPPs) as a financial mechanism to mobilize private capital for several decades - also in the clean energy sector as part of the EIB Climate Action. Global Energy Efficiency and Renewable Energy Fund (GEEREF) is one of the latest examples to be presented.

Christianne Carin

President & CEO, Elk Partners LLC

Presentation Title: Funding Global Clean Energy Innovation and Implementation

Around the world, there are an ever-increasing number of viable commercial innovations that are not being implemented, since innovators often lack the funds or necessary capabilities. This presentation will discuss a unique new funding model for developing and implementing economically viable clean energy technologies. The model includes innovation bundling, analyses and alternative asset risk management, with the ultimate aim of generating increased deal flow and returns. The discussion will highlight the significant global market-pull in developing countries for implementing these innovative clean energy solutions -- whether they are hybrid, bundled, multi-purpose, off-grid and micro-grid technologies.

Eugene Yun

Managing Partner, Eos Investment Partners

Presentation Title: Creating a Tipping Point: Climate Public Private Partnership Fund

This presentation tells the story of how a group of individuals set about engineering a small change to deliver big consequences to environmental finance, developing Asia, and the future path of climate change.

Session 4: Approaches to Deal Facilitation and Technology Development for Clean Energy Projects

Breakout Session
2:00 pm - 3:30 pm

This session will showcase different approaches that have been used to facilitate the scale-up of investment in clean energy projects and technologies in the Asia region. The presentations will cover the Private Financing Advisory Network (PFAN) and its activities in PRC and Indonesia; an EU-funded partnership mechanism to scale up investment in biomass projects in Malaysia; and different technology transfer models used in emerging markets.

CHAIR

Jun Tian

Advisor, Regional and Sustainable Development Department, Asian Development Bank

SPEAKERS

Irman Boyle

Contractor, Indonesia Country Manager

USAID ECO-Asia Clean Development and Climate Program

Presentation Title: Lessons Learned from Matchmaking between Entrepreneurs and Investors with the Private Financing Advisory Network in Indonesia

This presentation will focus on the establishment of the Private Financing Advisory Network (PFAN) in Indonesia during 2009-2011 and the lessons learned from the operation of an "open source" network to bring together entrepreneurs/project developers with investors and bankers who are seeking promising investment opportunities. PFAN in Indonesia has been able to facilitate financial commitments for renewable energy projects for a total of US\$ 88 million.

Hong Miao

Contractor, PRC Country Manager

USAID ECO-Asia Clean Development and Climate Program

Presentation Title: Lessons Learned from Matchmaking between Entrepreneurs and Investors with the Private Financing Advisory Network in PRC

This presentation will focus on the establishment of the Private Financing Advisory Network in PRC (PFAN) during 2009-2011 and the lessons learned from the operation of an "open source" network to bring together entrepreneurs/project developers with investors and bankers who are seeking promising investment opportunities. PFAN in PRC has been able to facilitate financial commitments for seven renewable energy projects for a total of US\$ 41 million.

Leong Kin Mun

Technical Advisor, EU-Malaysia Biomass Sustainable Production Initiative

Presentation Title: Spurring High Growth Bio-Energy Ventures through EU-Malaysia Co-operation

This presentation will share methodologies for linking European Union companies with small and medium enterprises (SMEs) in Malaysia working in areas such as investing, forming business partnerships, raw material sourcing, technology sharing, and expanding markets. Additionally, this presentation will share strategies and partnership mechanisms for engaging CDM investors and project owners in bio-energy projects in Malaysia.

Preeti Malhotra

Director, Power & Environmental Policies, Alstom Power

Presentation Title: Technology Transfer in Emerging Economies: Role of Business

This presentation will summarize the barriers to technology transfer, public and private funding of such transfers, and the enabling policy factors and options. Successful technology transfer models in emerging markets such as India will be shared. The presentation will also provide a business perspective on the UN Technology Mechanism and how it works in practice. Alstom supplies equipment for 25% of the world's installed power generation capacity and spent over US\$ 800 million on R&D between 2009-2010.

Session 5: Towards Sustainable Energy for All

Breakout Session
2:00 pm - 3:30 pm

In this panel, various stakeholders from the UN, ADB, government and other international and national agencies will share strategies and mechanisms to achieve the goal of serving 100 million people by 2015 and providing universal access by 2030. The session will include discussions of concrete activities for achieving the target, of a standardized system to monitor and evaluate those activities, and the potential for collaboration among the partners.

CHAIR

Bart Edes

Director Poverty Reduction, Gender and Social Development Division, Asian Development Bank

SPEAKERS

Mohamed El-Ashry

Senior Fellow, UN Foundation and Chairman, REN21

Edwin Khew

CEO, IUT Global Pte. Ltd.; Chairman, Sustainable Energy Association of Singapore; Energy for All Steering Committee Member

Rajan Velumail

Regional Technical Advisor for Energy, UNDP Asia Pacific Regional Centre

Edita Bueno

Administrator, National Electrification Administration Philippines

Johane Meagher

Executive Director, e8/Global Sustainable Electricity Partnership

3:30 pm - 4:00 pm

Break

Session 6: Policies to Improve Distribution System Efficiency and Develop Smart Grids in Asia

Breakout Session
4:00 pm - 5:30 pm

This session will cover the main policy and implementation issues that need to be addressed in order to improve the efficiency of utility power distribution systems. It will include presentations on policies and measures to improve transmission and distribution system efficiency in PRC and India. It will also include a presentation on the types of policies that need to be implemented for smart grids to be successfully realized in Asia.

CHAIR

Seethapathy Chander

Co-Chair Energy Community of Practice, Asian Development Bank

SPEAKERS

Mayur Karmarkar

Director, Partnerships Asia, International Copper Association Ltd., PRC

Presentation Title: **Promotion of Higher Efficiency Distribution Transformers**

This presentation will describe the development of Higher Efficiency Performance Standards (HEPS) for distribution transformers in PRC. It is expected that the standards will increase the market share of higher efficiency transformers in PRC by 20% within the next three years. The presentation will address transformer selection tools and Eco-Design guidelines for manufacturers of distribution transformers. The lessons from this initiative can benefit many countries in Asia.

Tika Limbu

Energy Economist, Energy Division, South Asia Department, Asian Development Bank

Presentation Title: ADB Initiatives for T&D Losses and GHG Emissions Reduction in India

This presentation will provide an overview of India's efforts to improve its transmission infrastructure through a project to construct 1,800 kilometers of ± 800 kV, 6,000 MW, HVDC lines for transmitting hydropower from the Northeastern to the Northern and Western Regions of India. By 2012, when the project is completed, the reduction in transmission losses alone will amount to 228 GWh. This project will generate about 20 MtCO_{2e} in emissions reductions in the first phase (2010–2015), with the total amount of reductions reaching 551 MtCO_{2e} over the lifetime of the project.

Sylvia Chan

Managing Director, Entropy Ventures

Presentation Title: Making the Energy System Smarter: Putting the Pieces Together

This presentation will address issues concerning "smart grids"; their applicability and usefulness in Asia; how the application of smart grids in Asia must necessarily be different from the approach in the US and Europe; how different levels of "smartness" have different levels of usefulness for different countries; and the types of policies that need to be implemented for smart grids to be successfully realized. The presentation will propose a broad strategy for implementing smart grids in Asia.

Session 7: Clean Energy Investment Strategies and Products

Breakout Session
4:00 pm - 5:30 pm

This session will present a range of experience and ideas from fund managers and investment advisors on strategies for investing in the rapidly evolving clean energy sector. The presentations will address solutions for mitigating risk in early-stage investment; the design of financial instruments for clean energy; approaches and opportunities for Clean Technology investments in PRC; and ADB's efforts to fill market gaps for clean energy investment in Asia.

CHAIR**Philip Erquiaga**

Director General, Private Sector Operations Department, Asian Development Bank

SPEAKERS**Brandon Courban**

Partner, Low Carbon Investors

Presentation Title: Bridging the Gap Between Innovation and Infrastructure

Early-stage cleantech companies suffer detrimentally from the "valley of death" -- the high-risk period before technology is rolled out and where companies have difficulty in accessing capital. This presentation explores solutions for mitigating the risk of investing in early-stage Cleantech companies. Low-Carbon Investors have pioneered a new model for early-stage investing that calls for investing in both the supply and demand sides of the market. This model has been successfully implemented in Europe, and there are opportunities for Low-Carbon Investors to deploy this model in Asia.

Thomas Jakobsen

Head of Sustainability, Anpha Capital Management Company

Presentation Title: Private Financing of Clean Energy in Emerging Markets

This presentation will focus on the design of private financing instruments for investment in clean energy that can offer both a reasonable risk level and an attractive return by presenting results of an analysis of different segments of the clean energy sector, aimed at identifying investments that make a significant positive impact on the environment and ensure financial sustainability. It will also present strategies for matching the criteria of potential investors with specific investment opportunities.

Jin Yi

Vice President, Keytone Ventures

Presentation Title: Investing in Clean Technology in PRC: Approaches and Opportunities

This presentation will discuss key developments in clean technology sectors in PRC; the breakdown of different clean technology sectors; and key opportunities from the perspective of an early-growth stage investor. It will present a proactive, research-driven deal flow approach that aims for systematic market coverage, along with a rigorous and disciplined investment process followed by hands-on portfolio management. The presentation will also discuss developments and opportunities in the clean technology venture capital space and what conditions can enable sustainable success.

Jane Brett

Investment Specialist, Capital Markets and Financial Sectors Division, Private Sector Operations Department, Asian Development Bank

Presentation Title: Clean Energy Investing in Asia - Filling Market Gaps

This presentation will address clean energy investing in Asia and the need to catalyze private sector money into undercapitalized markets and asset classes. It will provide an overview of the gaps in the market that ADB's two calls for proposals work to help fill; the market's response to those calls for proposals; and which funds were selected. It will also explain how ADB worked to provide support to the funds selected through the 2008 call for proposals during the financial crisis, and potential future initiatives in this space.

Session 8: Business Models for Renewable Energy

Breakout Session
4:00 pm - 5:30 pm

This session brings together developers with experience in developing business models for renewable energy. The presentations will cover biomass at Pepsi Cola bottling plants in the Philippines; renewable energy for dairy farms in India; GIS wind and solar resource maps to leverage investment opportunities; and a pilot rooftop project at ADB's headquarters.

CHAIR**Lily Gutierrez**

Energy Policy Advisor, USAID Philippines

SPEAKERS**Gabinete Reyes Redentor**

Commercial Director, Pepsi-Cola Products Philippines, Inc.

Presentation Title: Project Power Play: A Renewable Energy Strategy of Pepsi-Cola in the Philippines

This presentation will describe the renewable energy program of Pepsi Cola in the Philippines, which carries the project name, Project Power Play. The objective of the program is to have a sustainable business model for the use of renewable energy in all manufacturing facilities of Pepsi Cola plants in the Philippines. Biomass waste materials, solar, and wind energy shall replace fossil fuel as fuel inputs in the production processes of Pepsi Cola, particularly in producing power, steam, and carbon dioxide. The issues to be discussed include business models adopted, the technical options, and challenges encountered. Project Power Play has won the Manufacturing Innovation Award from the North Asia-Pakistan-Philippines Business Unit of Pepsi Cola International and is nominated for this year's PepsiCo Global CSR Award.

Sridhar Samudrala

Partner, Mukund Dairy Farm

Presentation Title: Strategies for Implementing Renewable Energy for Dairy Farms

This presentation will provide an overview of Mukund Dairy Farm's process for producing renewable energy out of cow and buffalo dung in India. The process could be very useful for medium- and large-scale dairies. The cost of Mukund Dairy Farm's digester and equipment was paid back within 2 years, and the energy has been utilized for milking, packaging, pumps, lighting, and refrigeration when electricity is not available -which is often.

Peter Hayes

Senior Climate Change Specialist, Environment, Natural Resources & Agriculture Division, Asian Development Bank; and

Mark Allington

CWER & ICFI Consultant, IFC International

Presentation Title: **Showcasing Central & West Asia's GIS Wind & Solar Resource Maps to Leverage Investment Opportunity**

Central and West Asia Department (CWER), in concert with IFC International (ICFI), will discuss the renewable energy (solar and wind) challenges facing Central and West Asia. We will look at the growing demand for energy, and the existence of large unexploited RE energy resources. We must understand what practical knowledge, tools, and business models are required to prioritize RE projects across the region. We will feature state-of-the-art high resolution wind and solar atlases in animated GIS platform, including associated country-level RE Investment Plans. Our investment methodology will help assess energy yield and the scale of investment needed (and possible returns), at a range of power purchase tariffs, across a geographical area. Physical and environmental constraints and relative economic viability will also be assessed.

Aiming Zhou

Energy Specialist, Sustainable Infrastructure Division, Asian Development Bank

Presentation Title: **Walk the Talk: Business Model of ADB's 567 kWp Rooftop Project**

This presentation will introduce one business model in solar rooftop system development. As the end user, ADB signs a long-term power purchase agreement (PPA) with the project implementer, Suntech/Propmech Consortium, through international competitive bidding process. The PPA will help the project implementer to secure financing from local commercial financier(s). With a 15-year PPA from ADB, this project becomes a bankable project. ADB also reach its goals, including greening corporate operation and technology demonstration.

Session 9: Financing Sustainable Energy for All

Breakout Session
4:00 pm - 5:30 pm

Although many mechanisms exist for financing energy access, financial sustainability is still a major challenge for many energy access projects and programs. How, then, can we achieve universal access to energy? In this panel discussion, session experts from various financial backgrounds will present their experiences in leveraging both development and commercial funding through innovative approaches to deliver access to energy to a large number of people.

CHAIR**Martin Jensen**

Investment Specialist, Capital Markets and Financial Sectors Division
Private Sector Operations Department, Asian Development Bank

SPEAKERS**Russell J. deLucia**

President and Executive Director, S3IDF

Matthew Kuzio

Senior Officer, Eco Products Unit, Xac Bank

Marion Verles

Executive Director, Nexus Fund

Saurabh Lall

Research Officer, New Ventures , World Resources Institute

6:00 pm

Reception Sponsored by Australian Trade Commission

Day 2, June 23, 2011

■ Plenary Sessions

■ Policy and Regulation

■ Financing and Investment

■ Innovative Business Models

■ Energy for All

Session 10: Plenary on Financing and Business Models for Clean Energy Development

Panel Discussion
9:00 am - 10:30 am

This panel discussion will bring together leading actors in business, finance, and policy to describe how innovative models for business and financing can provide a template for scaling up investment in, and deployment of, energy efficiency and renewable energy technologies that save energy and money while improving energy security and addressing climate change. Panelists will describe effective strategies for identifying and deploying new financial products, innovative business models, effective policies and regulations to level the playing field for clean energy technologies in the market.

MODERATOR

Peter du Pont

USAID Contractor, International Resources Group (IRG)
ECO-Asia Clean Development and Climate Program

PANELIST

Woochong Um

Deputy Director General, Regional and Sustainable Development Department
Asian Development Bank

Brad Sterley

Director, Renewable Energy & Environmental Finance Asia, Standard Chartered Bank

Pankaj Sehgal

Managing Director, Sun Group India

John E. Morton

Vice President, Office of Investment Policy, Overseas Private Investment Corporation

10:30 am - 11:00 am

Break

Session 11: Carbon and Energy Finance (1): Domestic Carbon Trading

Panel Discussion
11:00 am - 12:30 pm

This panel discussion will bring together officials from several Asian countries to discuss their plans for national carbon trading schemes. The discussion will focus on a number of practical aspects, including building political support for carbon trading, as well as key issues in the design and roll-out of the schemes. The panel will also include an international climate and energy expert, and will address the linkages between national carbon trading systems and international schemes.

CHAIR

Xuedu Lu

Advisor, Regional and Sustainable Development Department, Asian Development Bank

SPEAKERS

Huan Chen

Director, PRC Clean Development Mechanism Fund, Ministry of Finance, PRC

Pongvipa Lohsomboon

Senior Director, Business Development, Thailand Greenhouse Gas Management Organization

Chu Thi Thanh Huong

Department of Hydrology, Meteorology and Climate Change
Ministry of Natural Resources and Environment, Vietnam

Dicky Edwin Hindarto

Coordinator, National Council on Climate Change Indonesia

Jennifer Morgan

Director, Climate and Energy Program, World Resources Institute

Session 12: Energy Efficiency Investment

Breakout Session
11:00 am - 12:30 pm

This session will address the key question of how to develop successful investment strategies for energy efficiency in Asia. The presentations will cover experience with dedicated energy efficiency funds that can represent an alternative to traditional asset-based lending; the range of immediate and attractive investment opportunities in Southeast Asia; a new financial product for SMEs in India; and a large new ADB project to stimulate investment in energy-efficiency projects in Indonesia's industrial sector.

CHAIR**John E. Morton**

Vice President, Office of Investment Policy, Overseas Private Investment Corporation

SPEAKERS**Ivan Gerginov**

Energy Efficiency and Renewable Energy Financing Specialist, Econoler

Presentation Title: Designing and Implementing Energy Efficiency (EE) Funds: Experience with Innovation from around the World

This presentation will describe successful examples of financing for energy-efficiency (EE) projects in various countries, including PRC, Bulgaria, and Egypt. The experience shows that dedicated EE funds represent a good alternative to traditional credit lines for local financial institutions to overcome the barriers of traditional asset-based lending. Furthermore, dedicated EE funds can provide tailor-made financing for EE projects. These examples show that EE funds structured around innovation and flexibility can create a platform for profitable, sustainable businesses.

Catriona McLeod

Associate, ReEx Capital Asia

Presentation Title: Energy Efficiency Investments in Southeast Asia: Opportunities and Solutions to Long-Term Barriers

There are a range of immediate and attractive investment opportunities for dedicated funds to invest in energy-efficiency projects and businesses in Southeast Asia; however, there are also significant barriers that need to be addressed in order for the funds to grow in the long run. This presentation will help investors identify short-term opportunities for energy-efficiency investments, including the most attractive countries to invest in and within them, the best industry sectors and expected returns. It will also provide an overview of obstacles faced by prospective investment funds and will propose long-term solutions.

Sanjoy Sanyal

Country Director, New Ventures India

Presentation Title: Financing Energy Efficiency for SMEs in India: Design of a New Financial Product for ESCO Clients

This presentation will describe how a large bank in India has developed a financing product for its SME clients to undertake ESCO projects. The WRI research study which led to the development of this new product identified financing limitations to ESCO companies as a major obstacle to their growth. The experience has shown that banks are far more able to lend to their own customer base to undertake energy

efficiency projects. We also learned that the financial product needs to be tailored specifically so that clients can avail of the loan to finance the upfront capital expenditure needed for the energy efficiency project.

Madeleine Varkay

Senior Private Sector Development Specialist, Public Management, Financial Sector, & Trade Division, Southeast Asia Department, Asian Development Bank

Presentation Title: Implementing Energy Efficiency in Indonesia

In March, 2010, ADB approved a new loan of US\$200 million to Indonesia's state-owned export credit agency, Indonesian Export Financing Agency (LPEI). The loan will fund a pioneering financing mechanism for energy efficiency improvements because banks in Indonesia are not yet familiar with the business concept of lending to industrial companies for upgrading plants and purchasing equipment to make energy cost savings and meet new international energy management standards. This presentation will present ADB's assessment in three major export sectors (rubber, paper and garments) for commercially viable investment in energy efficiency and explain this pioneered program for lending to energy-efficiency and conservation programs under a new business model that can be replicated by domestic banks for their credit portfolio.

Session 13: Renewable Energy: Developing Large-Scale Projects

Breakout Session
11:00 am - 12:30 pm

This session will present concrete experience from four different large-scale renewable energy projects in the region: a concentrated solar power (CSP) project in the Middle East; utility-scale solar PV and wind energy projects in Thailand; and a large-scale biogas development project in PRC.

CHAIR

Yue-Lang Feng

Lead Natural Resources Specialist, Environment, Natural Resources & Agriculture Division, East Asia Department, Asian Development Bank

SPEAKERS

Matthew Wood

Senior Associate, White & Case LLP

Doug Peel

Executive Partner, White & Case LLP

Presentation Title: Case Study of a Large Concentrated Solar Power (CSP) Project in Abu Dhabi

This presentation will focus on the Shams 1 solar power project near Abu Dhabi, which reached financial closure in March 2011 and represents a number of "firsts" -- including the first project financing of a solar power project in the Middle East, and the world's largest solar project implementing parabolic trough technology (with planned capacity of 110 MW). The presentation will provide a case study of the project, describing the role of government and regulatory frameworks in promoting renewable energy in the Middle East, sector-specific considerations for the financing of solar projects, and contractual and financing frameworks for project financing.

Philip Napier-Moore

Lead Energy Advisor, Mott MacDonald

Presentation Title: Project Financing for Utility-Scale Wind and Solar Power in Thailand: Facilitating Scale-Up by Standardizing the Project Development Process

This presentation will include case studies on the deployment of utility-scale solar PV power plants and wind farms in Thailand, with the aim of describing ways to break through many of the barriers in project financing. It will cover a number of strategies for addressing and mitigating project barriers and risk, including refining estimates of power revenue; building recognition of bankable terms for EPC contracts; setting precedents on the permitting processes; and addressing common pitfalls.

Emmanuel Guyot

Director, Project Development Asia Pacific and Middle East, Conergy Renewable Energy Singapore Pte Ltd

Presentation Title: Case Study of the 2.4 MW Lop Buri Solar Park in Thailand: How to Maximize Energy Yields and Return on Investment

This presentation will discuss how to optimize the yield of an entire solar PV plant, by focusing on the performance and reliability of the whole PV system as opposed to just individual PV modules. Considerations for optimizing yield include the integration and interoperability of the modules, inverters, monitoring systems, and the plant's engineering and design. The presentation will also address the benefits of an approach that provides system-wide output insurance for solar parks.

Bernhard Raninger

Technical Project Director, German Development Cooperation (GIZ) & FECC of MOA, PRC

Presentation Title: Innovative Approaches and Business Models to Promote Large Scale Biogas Plant Operations in PRC

The Chinese Ministry of Agriculture (MOA) received a loan from the Asian Development Bank (ADB) loan in 2010 to support implementation of the "Integrated Renewable Biomass Energy Development Sector Project". This presentation will discuss implementation of the project and its uniquely large-scale biogas technology aiming energy generation. The innovations in this project under consideration are (but are not limited to) feedstock co-digestion in centralized plants, the use of alternative input materials, operation under cold climatic conditions, CSTR and dry-fermentation technology, bio-methane purification, and utilization of the electricity and biogas output in macro and micro-grids.

Session 14: Business Innovations to Enable Energy for All - The Role of Large Companies

Breakout Session
11:00 am - 12:30 pm

The World Business Council on Sustainable Development (WBCSD) is convening this session, which will present the key elements of a business proposition on access to energy issues by highlighting examples of innovative and sustainable business solutions in the Asia-Pacific region. It will draw attention to the role and value proposition of the Energy for All partnership as a catalyst for private sector action and scaling up efforts toward reducing energy poverty.

CHAIR**Matthew Lynch**

Programme Manager, World Business Council for Sustainable Development

SPEAKERS**Harry Verhaar**

Senior Director, Energy & Climate Change, Philips

Dr. Peeush Kumar Bishnoi

Global Technology Leader (Decentralized Renewable Energy Technologies), Siemens AG

Representative

Schneider Electric

12:30 pm - 2:00 pm

Lunch Break

Session 15: Key Policy and Implementation Issues in Renewable Energy

Breakout Session
2:00 pm - 3:30 pm

This session will present a range of perspectives and experience on the development and implementation of policies to scale-up renewable energy in Asia. Presentations will cover experience in PRC, India, Republic of Korea, and Thailand and will focus on deep obstacles and barriers and solutions that have been developed to overcome them.

CHAIR

John Byrne

Director, Center for Energy and Environmental Policy, Distinguished Professor of Energy and Climate Policy, University of Delaware

SPEAKERS

Michael Wilshire

Head of Research - PRC, Bloomberg New Energy Finance

Kyung-jin Boo

Korean Institute of Energy Economics

New and Renewable Energy Policy - Korean Experience

Bundit Fungtamasan

Vice President for Research, King Monkut University of Technology, Thailand

Presentation Title: **Thailand's Experience in Scaling up the Implementation of Renewable Energy**

Thailand is at the forefront of the Southeast Asian region in the development and deployment of renewable energy for electricity, heating and biofuels. This is the result of a wide range of supportive policies and programs implemented over the last two decades. These include the setting up of regulatory frameworks and renewable energy targets, and the provision of financial and non-financial incentives.

Shantanu Dixit

Founding Member, Prayas Energy Group, India

Presentation Title: **Increasing Power of Renewables: Need for comprehensive approach to address emerging challenges**

Based on encouraging and robust policy and regulatory framework, India has made significant progress in large scale deployment of renewable energy sources. In coming years, role of renewables needs to and is likely to increase further. But this increasing power of renewables is also throwing up new challenges. This presentation will discuss the nature of these emerging challenges and ways to address the same.

Session 16: Carbon and Energy Finance (2): Learning from the Clean Development Mechanism (CDM)

Breakout Session
2:00 pm - 3:30 pm

This session will bring together government officials and private-sector practitioners to share lessons learned over several years of implementation of the Clean Development Mechanism (CDM). The presenters will address a range of issues including development of CDM methodologies, project review and validation, the issue of project scale and transaction costs, programmatic CDM, linkages to other carbon trading systems, and the future prospects of CDM.

CHAIR

Xuedu Lu

Advisor, Regional and Sustainable Development Department
Asian Development Bank

SPEAKERS

Steven Gray

Vice President, Climate Change Capital

Presentation Title: Recent Developments and Future Prospects for CDM

This presentation will cover current developments in CDM regulations with regard to verification of projects, Programme of Activities (PoAs), standardized baselines and the general standardization process. It will conclude with comments and analysis on the future prospects for CDM.

Huan Chen

Director, PRC Clean Development Mechanism Fund, Ministry of Finance, PRC

Presentation Title: Business Progress of PRC CDM Fund

PRC CDM Fund is an innovative mechanism for addressing climate change. In 2010, the Government of PRC issued the Regulation of PRC CDM Fund. With this mandate, PRC CDM Fund launched its investment business. As a first step, it will work with local governments and apply concessional loan support on projects of energy conservation, energy efficiency and renewable energy. Further cooperation with financial institutions and enterprises has been developing. To ensure real reduction carbon emission, it will introduce the third-party based MRV procedure in its investment projects. Meanwhile, it is working with the PRC standardization Academy so as to share its MRV ideas and experiences with more social members. In the above efforts, PRC CDM Fund has been developing cooperation with international partners such as ADB.

Ingo Puhl

Managing Director, Carbon CME Ltd. a subsidiary of South Pole Carbon Asset Management Ltd

Presentation Title: Scaling Up Carbon Market Mechanisms: from Policy-Driven POA to NAMA

This presentation will provide an overview of Thailand's CDM program model, which has many elements of a nationally appropriate mitigation action. The Thai model integrates payments for the delivery of carbon credits with payments of a domestically funded feed-in-tariff policy initiative, thus reducing the net cost of the feed-in-tariff to the Thai electricity rate payer.

Jasper Inventor

Climate and Energy Campaigner, Greenpeace Southeast Asia

Session 17: ESCOs: 20 Years Later, How Much Progress Has Been Made?

Breakout Session
2:00 pm - 3:30 pm

This session will address the question of whether energy service companies (ESCOs) have been oversold as a solution for implementing energy efficiency and will address the key barriers ESCOs face in emerging markets. Presenters will describe financial and management strategies that can be used to develop a successful ESCO business model. The presentations will cover experience in PRC, India, and the Philippines

CHAIR

Peter du Pont

USAID Contractor, International Resources Group (IRG)
ECO-Asia Clean Development and Climate Program

SPEAKERS

Pradeep Perera

Senior Energy Specialist, East Asia Department, Asian Development Bank

Presentation Title: Challenges of Achieving PRC's Energy-Intensity Targets Set in 12th Five-year Plan: the Role of ESCOs

This presentation will provide a critical assessment of policy instruments adopted by Chinese authorities to achieve significant reductions in the energy intensity of the Chinese economy. It will analyze the key role played by the Chinese ESCO industry, which is responding to policy instruments and market opportunities during the 11th Five-Year Plan (2006 - 2010). The presentation will also identify the evolving policy and market opportunities in the context of more ambitious targets set for energy intensity improvements under 12th Five-Year Plan, and the challenges faced by the Chinese ESCO industry in responding to these market opportunities.

Dilip Limaye

Senior Consultant, USAID ECO-Asia Clean Development and Climate Program

Presentation Title: Lessons Learned from Innovative Financing: EE Funds, Dedicated Credit Lines, Risk Guarantee Mechanisms, and Leveraging Commercial Financing through Performance Contracting

This presentation will provide a brief overview of more than 20 years of experience with energy service companies (ESCOs) in developing countries, and define the need for and the potential role of a “Super ESCO” as a means of facilitating large-scale implementation of energy efficiency projects. A Super ESCO is an entity established by the government, which functions as an ESCO for implementing projects in public facilities, while simultaneously supporting capacity-building and project development activities of existing private ESCOs and the creation of new ESCOs. The presentation will provide examples of Super ESCOs in PRC and India and describe how Super ESCOs may address some of the barriers to project implementation.

Xiaoyu Shi

Associate, World Resources Institute

Presentation Title: The ESCO industry in PRC: Status and Way Forward

After more than a decade of development, where does Chinese ESCO industry stand? What support does the ESCO sector need to grow and meet emerging market needs? Drawing from WRI’s work with ESCOs, this presentation will explore the state of the ESCO market in PRC today, and provide insights on what is needed to move the industry forward.

Oliver F. Dumlao

Senior Manager, Business Development, Allegiance Development Corporation

Presentation Title: Untapped Potential: What Should ESCOs Do to Grow in the Philippines?

This presentation will describe why the development of energy service companies (ESCOs) in the Philippines is progressing slowly compared to progress seen in other countries, despite the huge potential market. The presentation will include suggestions for ways of enticing the public and private sectors to implement ESCO business opportunities and will also describe the most cost-effective technologies for the Philippines market.

Session 18: Earning Profit through Powering the Poor - Learning from Social Entrepreneurs

Breakout Session
2:00 pm - 3:30 pm

The objective of this session is to understand what needs to be done to scale up enterprises and widen their impact, based on the experience of social entrepreneurs and investors. Participants will discuss possible metrics for a socially sound investment; the enterprises’ contribution to the Energy for All targets; the role of various financial institutions; and how large companies fit into the eco-system.

CHAIR**Dirk Münch**

Regional Manager Asia, E+Co

SPEAKERS**Bart Edes**

Director, Regional and Sustainable Development Department
Asian Development Bank

Cecile Pompei

South Asia Business Development Manager, Barefoot Power

Jeroen Verschelling

Director, Kamworks

Julius Alip

Deputy Director, CARD

3:30 pm - 4:00 pm

Break

Session 19: Green Solutions for Public Transport (Panel Discussion)

Breakout Session
4:00 pm - 5:30 pm

This panel discussion will provide the policy context for addressing sustainable transport as a clean energy priority. It will include information on a set of innovative projects from Bangladesh, the Philippines, and Nepal that improve vehicle efficiency and reduce urban pollution.

CHAIR

Prajna Rao

Transport Planner, EMBARQ India

SPEAKERS

Sophie Punte

Executive Director, CAI-Asia Center

Jitendra Shah

Advisor, Regional and Sustainable Development Department, Asian Development Bank

Presentation Title: **Urban Transport Needs of the Poor: How to Change Current Car-Centric Development in Asia**

Urban expansion in Asia is pushing the poor to the urban periphery and disrupting their livelihood, quality of life, increasing travel distances and costs. The exponential expansion in transport infrastructure investments and lack of affordable land in Asian cities are marginalizing the poor. They have limited political power or time for advocacy. There is an urgent need to ensure more equitable distribution of road space as well as elimination of subsidies to the car owners and recovering full cost of externality. Tax measures to fund public transport, non-motorized and clean vehicles are needed.

Jejomar Erwin S. Binay Jr.

Mayor, Makati City, Philippines

In becoming the financial center, Makati's leadership had to combine vision with pragmatism, in order to attract private enterprise while mobilizing the Makati's city's resources towards social services. Today, under Makati City's young chief executive, the city has included higher sustainability as a core part of its new development index planning and strategy. The increased deployment and utilization of renewable energy, along with the promotion of infrastructure that is climate-resilient, and the generation of green jobs, form some of the facets that reflect the new stage.

Cresencio M. Montalbo, Jr.

Professor, School of Urban and Regional Planning, University of the Philippines

David Margonsztern

Urban Development Specialist (Transport), Urban Development and Water Division
South Asia Department, Asian Development Bank

Presentation Title: **The Kathmandu Sustainable Urban Transport Project (KSUTP) – How to start a reform process towards a better sustainability of the urban transport system**

The presentation will use the KSUTP as a case study to demonstrate how urban transport systems can be reformed toward greater sustainability.

Session 20: Carbon and Energy Finance (3): Carbon as Part of a Clean Energy Investment Strategy

Breakout Session
4:00 pm - 5:30 pm

This session will bring together experts experienced in the development and implementation of carbon assets. The discussion will include strategies for developing carbon offsets; the issues and risks involved as carbon credits become managed assets and liabilities with substantial financial impact; and strategies for carbon data management and reporting.

CHAIR

Toru Kubo

Principal Climate Change Specialist (Clean Energy), Regional and Sustainable Development Department, Asian Development Bank

SPEAKERS

Sunwoo Kim

Head of Climate Change & Sustainability, KPMG Korea

Presentation Title: **Using Offsets to Scale-Up Green Investment in Developing Countries**

This presentation will present three case studies of carbon offset projects for three different types of offsets. The case studies will be used to describe the forces driving green investment, including cost reduction, emissions trading requirements such as the European Trading System (ETS), and legislation and government mandates, such as renewable portfolio standards (RPS). The presentation will describe the length of different types of offsets, and the various options for making a project financially feasible, especially in developing countries.

Philippe Delhaise

CEO, CIS Carbon Risk Management

Presentation Title: **Key Issues to Know in Using Carbon Credits as a Source of Financing**

This presentation will provide an overview of key concepts related to carbon credits, such as their liquidity, bankability, and fungibility, as well as market solutions, including ratings, independent opinions on "fair price," and securitization. The presentation will also describe a future in which carbon credits will become assets and liabilities that are very difficult to measure, despite having a substantial financial impact. The objective of the presentation will be to raise awareness about the importance of these issues and the need for project owners to become sufficiently informed, in order to avoid entering into suboptimal deals.

James Donovan

CEO, FirstCarbon Solutions

Presentation Title: **Achieving Improved Efficiencies through Optimizing Management of Carbon Assets**

This presentation will offer a model for utilities and businesses to follow in order to stay competitive as they face increasing requirements to report on and lower carbon emissions targets. Utilities in many countries are finding that these reporting requirements drain internal resources. FirstCarbon Solutions offers a model for utilities to follow that involves sustainability management systems, outsourcing data management and carbon reporting to expert organizations. The presentation will identify the benefits and best implementation methods of this model, and the needs for capacity building in this area in developing Asia.

Session 21: The Role of the Private Sector in Delivering Innovation for Clean Energy (Panel Discussion)

Breakout Session
4:00 pm - 5:30 pm

This panel discussion will bring together leading private-sector and government participants to share their experience in stimulating new ideas and innovation to promote private sector innovation and financing for clean energy. The participants are all Yale World Fellows (YWF), and the YWF Program has contributed to the cost of participation in the event.

CHAIR

Kala Mulqueeny

Senior Counsel, Office of the General Counsel, ADB (YWF 10)

SPEAKERS

Neric Acosta

Secretary General, Council for Asian Liberals and Democrats and former member of the Philippine House of Representatives, (YWF 04)

Will bring a government perspective on the role of the private sector in clean energy and government's role in generating the incentives to stimulate private sector investment in Clean Energy, with examples from the Philippines.

John Haffner

Vice-President, Business Development, Bridge Renewable Technologies and Energy Consultant (YWF 08)

Will discuss the vital role of the private sector in clean/renewable energy, and the need for regulation, with examples from Canada, PRC, and SE Asia.

Tim Jarvis

Senior Associate, Sustainability, ARUP (YWF 09) , Co-Founder-President Australia Climate Civics Institute (YWF 10)

Will bring a consulting advisory perspective of ARUP, an engineering sustainability advisory firm, with regional examples

Unmesh Brahme

Founder and CEO, SustainabilityCXO Partners Worldwide, Co-Founder-President India Climate Civics Institute (YWF 09)

Will discuss energy needs at the bottom of pyramid markets in emerging economies such as India, and how the private sector and public-private partnership can create "energy access for all", linking this to climate adaptation.

Vince Perez

Chairman of WWF Philippines, Trustee of WWF International, and former Philippine Energy Minister (YWF 05)

Will bring a civil society perspective on how NGOS can engage private-sector involvement in renewable energy.

Session 22: Institutional Models for Transforming Rural Energy Access Markets

Breakout Session
4:00 pm - 5:30 pm

Participating organizations will introduce some real game-changers for energy access: These include projects that had a widespread impact and created effective models to stimulate public-private collaboration for long-term sustainability. The participants will then discuss the role of new institutional arrangements and innovations implemented by the projects.

CHAIR

Frank van der Vleuten

Energy Access Programme Manager, ETC Energy

SPEAKERS

Wim van Nes

Renewable Energy/Biogas Network Leader

Islam Sharif

CEO, Infrastructure Development Company Limited (IDCOL)

Len George

Energy Specialist, Energy Division, South Asia Department, Asian Development Bank

6:00 pm

Reception Hosted by ADB, USAID, and WRI

Day 3, June 24, 2011

■ Plenary Sessions

■ Policy and Regulation

■ Financing and Investment

■ Innovative Business Models

■ Energy for All

Session 23: Low-Emission Development Strategies (Panel Discussion)

Breakout Session
9:00 am - 10:30 am

This discussion panel will address the challenges of designing and implementing strategies for low-carbon development. Experts will present their experience in developing technology road maps, policy blueprints, and a range of technology transfer approaches.

CHAIR

Klaus Gerhaeusser

Director General, East Asia Department, Asian Development Bank

SPEAKERS

Orestes Anastasia

Regional Environment Advisor, USAID Regional Development Mission for Asia

Presentation Title: **Low Emission Development Strategies Will Change the World**

This presentation will frame the panel discussion by providing an overview of low emission development strategies (LEDS) and the role they will play in establishing new policy and market drivers to scale up clean energy investment. The presentation will also briefly describe the US Government's LEDS initiatives, internationally and in Asia.

Ji Zou

PRC Country Director, World Resources Institute

Anindya Bhattacharya

Energy Economist, Institute for Global Environmental Strategies

Presentation Title: **Impact of Emissions Intensity Reductions on Energy Infrastructure Development in India: A Pathway Towards Low Carbon Development**

Under the Copenhagen Accord, India committed to reduce its emissions intensity of GDP by 20-25% by 2020 compared to the 2005 level. The greatest challenge for the country is to keep its robust economic growth undeterred with mitigation actions. The biggest advantage of India is, it still needs huge investments in the energy sector to continue its economic development. So opportunity prevails to maneuver the energy sector development towards cleaner and greener base by policy intervention to create a low carbon development pathway.

Lucille Sering

Commissioner, Philippine Climate Change Commission

Presentation Title: **Low-Emissions Development Strategies in the Philippines**

This presentation will describe the Philippines' low-carbon development strategies as embodied in a series of policy frameworks including the National Framework Strategy on Climate Change (NFSCC), National Climate Change Action Plan (NCCAP) and Local Climate Change Action Plan (LCCAP). These were formulated through the leadership of the Climate Change Commission which is an independent and autonomous body with the same status as that of a national government agency and is attached to the Office of the President.

Alice Gibson

Capacity Development Manager, Global CCS Institute

Presentation Title: **CCS in Low-Emission Development Strategies**

The presentation will briefly outline the importance of considering CCS in low-emission development strategies.

Session 24: Experience with Tradable Energy Certificates

Breakout Session
9:00 am - 10:30 am

This session will present a range of perspectives on a policy paradigm for stimulating investment in renewable energy and energy efficiency that is relatively new in Asia -- tradable energy certificates. The discussion will cover case studies and will describe important issues, including how to manage price risk for traded commodities such as these certificates.

CHAIR

Pil-Bae Song

Director, Energy Division, Central and West Asia Department, Asian Development Bank

SPEAKERS

Andrew Livingston

Renewable Energy Regulator, Office of the Renewable Energy Regulator, Australia

Presentation Title: **Renewable Energy Certificates - Australia's 10-Year Experience**

Australia introduced a tradable renewable energy certificate scheme in 2001, the first country to do so. The scheme has been very successful and it was recently extended and expanded. It has led to significant investments in new and refurbished renewable energy power stations and a boom in small household scale systems. However, a number of lessons can be learned from Australia's 10-year experience

Aiming Zhou

Energy Specialist, Asian Development Bank

Presentation Title: **Renewable Energy Certificates Scheme in Developing Asia**

ADB plans to undertake a technical assistance effort to design national RECs system in selected DMCs. Before a broader technical assistance project can be undertaken, however, a pilot study is being conducted in Sri Lanka. The pilot study will identify and analyze key issues for REC mechanism development in Sri Lanka and develop a proposal for implementing RECs in the country. The results of the pilot study will define how the initiative can move forward in laying the groundwork for establishing and implementing an REC system in Sri Lanka. After the pilot, ADB will undertake a two-phase RECs program: Phase 1 will be a feasibility study to help conceptualize a RECs program in the region. Phase 2 will establish legal and regulatory frameworks for a RECs system in two selected DMCs.

Balawant Joshi

Director, ABPS Infrastructure Advisory Private Limited

Presentation Title: **Renewable Energy Certificates in India**

Anoop Singh

Associate Professor, Indian Institute of Technology Kanpur

Presentation Title: **Market-Based Financing for Clean Energy Projects: An Assessment of Renewable Energy Certificates and Energy Saving Certificates**

Clean energy projects for grid-connected renewable energy and energy efficiency are traditionally supported through feed-in-tariffs, subsidies, tax credits and cheaper financing. While these policies have produced mixed results, a usual critique of such approach is the lack of efficiency in promoting cost effective solutions and projects. Market-based approaches such as Renewable Energy Certificates and Energy Saving Certificates are able to overcome some of these shortcomings. These instruments also expand the participation in promotion of clean energy projects. The presentation will discuss the "paradigm shift" in policy toward market-based instruments, with examples from several countries. The presentation will also address the concerns of project promoters and lenders about the stability and risk associated with their revenue streams, given the uncertainty of market prices of such instruments. The presentation will include specific recommendations for regulatory and policy interventions.

Session 25: Business Models for Sustainability

Breakout Session
9:00 am - 10:30 am

This session will include four approaches to developing innovative and sustainable business models. The presentations cover carbon credits for water filters in Cambodia; efficient cookstoves in the Asia region; a regional ADB project on sustainable biofuels; and an international initiative to scale up and industrialize investment-grade energy efficiency projects.

CHAIR

Retno Setianingsih

Mission Environmental Officer, USAID Indonesia

SPEAKERS

Olaf Evjen Olsen

Managing Director, Hydrologic Social Enterprise Ltd.

Presentation Title: It's Not Just for Energy Anymore: How Carbon Finance Can Provide Clean Water for the Bottom of the Pyramid

This presentation will provide information on how social enterprises that market water filters can sell carbon credits that monetize the carbon benefits for every filter put into use by households. Water filters eliminate the need to burn non-renewable biomass to boil water, thereby reducing greenhouse gas emissions. The presentation will describe the work of an innovative social enterprise manufacturing ceramic water filters in Cambodia, which is currently utilizing the carbon market to generate sustainable revenue. The credits can be sold on the voluntary market and the proceeds re-invested in expansion, product R&D, pro-poor discounts, as well as new activities.

Ellen May Zanoria

South East Asia Regional Manager, The Gold Standard Foundation

Presentation Title: Energy Efficient Cookstoves: Clearing the Air but not the Forests

These projects reduce indoor air pollution, improve health conditions for rural households, and reduces the labor burden for women. The time-savings generated by minimizing the need to harvest fire wood can be used for more economic activities. In addition, less biomass is also harvested for fuel, thus curtailing deforestation. These projects monitors decreases in indoor air pollution; decreases in deforestation; reductions in household fuel costs; employment quality; and the disposal of manufacturing waste (new cookstoves) throughout the course of the project.

Sununtar Setboonsarng

Principal Natural Resources and Agriculture Economist, Asian Development Bank

Presentation Title: How Biofuel can Enhance Food Security for the Poor in the Greater Mekong Subregion (GMS)

Production of oil-seed crops (e.g. Jatropha) either as an intercrop on marginal lands in integrated production systems is an option to increase clean energy for the poor in remote areas. Jatropha can be used to produce biodiesel oil which after minimal processing can be used to run generators that support mini-grids or battery charging operations, or be used to displace diesel in small farm machinery. The oil cake residue which is rich in nutrients can be then be returned to soil as an organic fertilizer. Current controversy related to biofuel development is mainly on large-scale production using food production areas and forest land. However, intercropping of biofuel crops in smaller-scale practices in marginal areas has proven feasible and contributes to diversification of farming system, improving climate resilience and thus enhancing food security for the poor. ADB policy in supporting biofuel includes the following conditions: (i) the base crop used is not a food crop; (ii) the land cannot be used for food crops; (iii) the project does not result in deforestation, and (iv) the energy balance is positive. The presentation will describe the new initiative on biofuel under an ADB Regional Technical Assistance project to GMS countries, focusing on Cambodia, Lao PDR, and Viet Nam.

Pasha Ponomarev

Sustainability Services, Accenture

Presentation Title: Building Critical Mass: Addressing Market Barriers for Energy Efficiency beyond the Availability of Capital

A sustained flow of energy-efficiency (EE) investments requires an innovative business model that has a long-term focus on reducing transaction costs. This presentation describes Critical Mass, a new initiative that intends to move the project development conversation beyond pure availability of financing and consider how public and private investment could be used to effectively navigate market barriers. This presentation will offer investors a framework for establishing successful strategies and business models aimed at addressing market challenges and maximizing their return on EE projects over the long run. The presentation will look past individual case studies and address methods of scaling up and industrializing investment-grade EE projects.

Session 26: Clean Energy Solutions for the Poor (Panel Discussion)**Breakout Session**

9:00 am - 10:30 am

Participants in this session will share their experiences deploying clean energy technologies to meet the energy needs of the poor. Experts will discuss how technological innovations, cost reduction, and innovative approaches to planning, financing, procurement, and livelihoods development can contribute to making clean energy technologies viable, sustainable solutions for the poor. Participants will make short presentations followed by a panel discussion and Q&A.

CHAIR**Rehan Kausar**

Senior Infrastructure Specialist, Energy Division, Asian Development Bank

SPEAKERS**Zhang Ming**

CAREI

Prakash Ghimre

SNV

Presentation Title: Joint presentation on Market Development of Domestic Biogas Plants through Technical Innovation

Lyndon Frearson

General Manager, CAT Projects

Presentation Title: The Bushlight Model – Reducing the Impact of Structural Barriers to Remote Electrification

Rimtaig Lee

Chairman, Korea Wind Energy Industry Association

Presentation Title: Small Wind Power - a Green Solution for Rural Electrification

Md. Fazley Rabbi

Senior Manager, Grameen Shakti

Presentation Title: Growing Rural Economies through Solar Power

10:30 am - 11:00 am

Break

Session 27 (Closing Plenary): Putting it All Together: Visions for a Low-Carbon Future

Panel Discussion
11:00 am - 12:30 pm

This closing panel discussion will bring together thought leaders with a range of perspectives on the key steps in the pathway toward a low-carbon future. What are the key barriers that need to be addressed? Who are the key stakeholders and change agents? What are some of the examples that provide hope and may light the pathway? What can participants at this Forum do afterward to take action toward building the low-carbon future?

MODERATOR

Ann Quon

Principal Director, Department of External Relations, Asian Development Bank

PANELIST

Michael Wilshire

Director and Global head of Renewable Energy and Energy Smart Technology Analysis, Bloomberg New Energy Finance

Athena Ronquillo-Ballesteros

Project Manager of International Financial Flows and Environment Project
World Resources Institute

Steve Sawyer

Secretary General
Global Wind Energy Council (GWEC)

Zhou Dadi

Director General (Emeritus), Energy Research Institute
National Development and Reform Commission, PRC

Xianbin Yao

Director General, Regional and Sustainable Development Department
Asian Development Bank

CLOSING REMARKS

Jennifer Morgan

Director, Climate and Energy Program, World Resources Institute

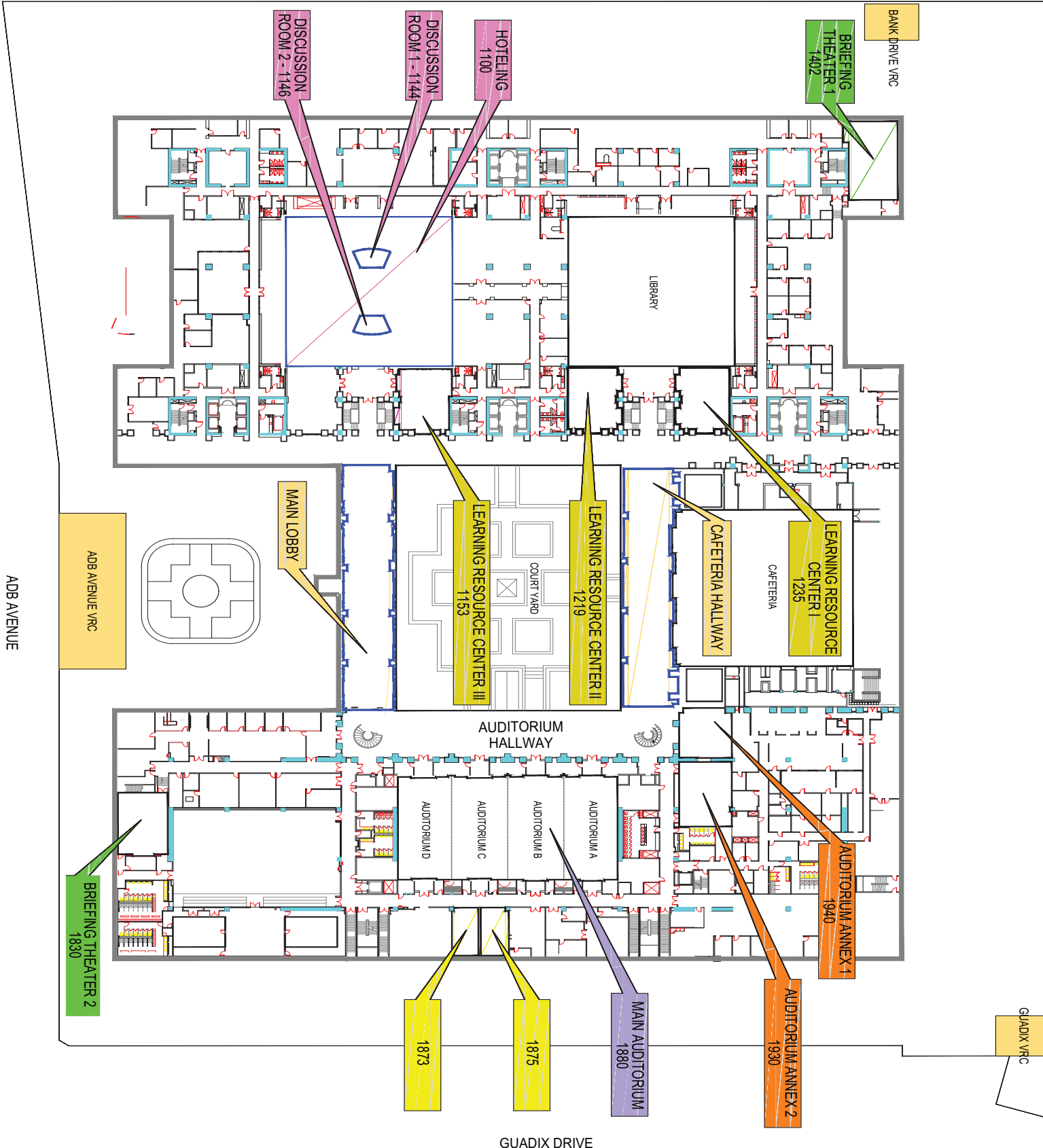
Alfred Nakatsuma

Director, Office of Environment, USAID Indonesia

Ursula Schaefer-Preuss

Vice President, Knowledge Management and Sustainable Development
Asian Development Bank

BANK DRIVE



Level 1 Floor Layout

About the Asia Clean Energy Forum

The Asia Clean Energy Forum is the premier knowledge-sharing event on clean energy in the region. It attracts a diverse group of stakeholders including governments, national and multinational banks, carbon and clean energy investment funds, project developers and service providers, academics and civil society, and development partners and other international organizations. The Forum provides a dynamic platform for cross-cutting debates and discussions on clean energy development and financing, climate change, energy access and security, and governance in the energy sector.

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For more information, please visit

www.adb.org/ACEF