

ESMAP 2011 Knowledge Exchange Forum



ESMAP 2011 KNOWLEDGE EXCHANGE FORUM

MISSION

To assist clients—low- and middle-income countries—
to increase know-how and institutional capacity to achieve
environmentally sustainable energy solutions for poverty
reduction and economic growth.

March 17, 2011

DEAR FORUM PARTICIPANT,

I would like to welcome you to the ESMAP 2011 Knowledge Exchange Forum. Building on last year's successful forum, this year we will showcase ESMAP's analytical and advisory activities, technical assistance, global knowledge products and innovative planning tools. We hope the forum will be an opportunity for participants to interact with ESMAP donors and clients, learn from the experiences of operational staff, and explore current topics and cutting-edge solutions in the energy sector.

This booklet is your guide through the day's presentations with brief introductions of our guest speakers. The morning sessions will involve presentations that focus on: (i) Better Informed Policymaking; (ii) Improved Client Capacity; (iii) A Roundtable of Renewable Energy Practitioners; (iv) Cutting-Edge Energy Solutions; and (v) Innovative Thinking – Showcase of ESMAP's Knowledge Products.

The ESMAP 2011 Knowledge Exchange Forum is the product of the collective hard work of the entire ESMAP Team and colleagues in the World Bank energy units. Special thanks to the following members of the ESMAP Team for organizing this inaugural event: Vanessa Lopes and Andres Londono developed the Forum action plan and coordinated the agenda, individual sessions, and activities; Heather Austin assisted in executing the Forum action plan, and together with Marjorie Araya developed this brochure and many of the Forum materials; Nyra Wallace worked tirelessly to help with travel arrangements for our guest speakers and event logistics; Gloria Whitaker diligently assisted the team with event coordination and logistics; and Agnes Biribonwa developed and executed the Forum outreach plan.

In addition, I would like to thank all who developed and coordinated the various sessions from inception to fruition. Finally, special thanks to all guest speakers for bringing this 2011 ESMAP Knowledge Exchange Forum to life.

We are very glad to count you among the forum participants and I hope you enjoy the 2011 ESMAP Knowledge Exchange Forum.

Thank you in advance for your participation. I look forward to hearing your feedback.

Sincerely



Rohit Khanna
Program Manager, Energy Sector Management Assistance Program
The World Bank

ESMAP: KNOWLEDGE EXCHANGE FORUM AGENDA

THURSDAY | MARCH 17, 2011 | World Bank, Room MC4-800 Washington DC

Chair: Mr. Rohit Khanna, ESMAP Program Manager

8:15-9:00 **Registration to ESMAP Knowledge Exchange Forum (outside the meeting room)** *Please allow time for security screening at the visitor's entrance of the World Bank*

9:00-9:20 **Introduction by Chair**
Opening Remark | *Daniel Kammen, Chief Technical Specialist, World Bank*

SESSION 1 | BETTER INFORMED POLICY

9:20-10:20 **Egypt:** Power Sector Vulnerability Assessment | *Rome Chavapricha, World Bank*
Armenia: Energy Efficiency in Municipal Social Facilities | *Tamara Babayan, Renewable Resources & Energy Efficiency Fund (R2E2 Fund)*
China: Renewable Energy & Climate Mitigation | *Ximing Peng, World Bank*

10:20-10:40 **Q & A and Group Discussion**

10:40-10:50 **Morning Break**

SESSION 2 | IMPROVED CLIENT CAPACITY

10:50-11:50 **India:** Sector Engagement and Transformation | *Mohua Mukherjee, World Bank*
Mali: Gender Integration in Africa's Energy Projects | *Alassane Agalassou, AMADER*
Morocco: Industrial Integration of Concentrated Solar Power Technologies | *Badr Ikken, Moroccan Agency for Solar Energy*

11:50-12:20 **Q & A and Group Discussion**

SESSION 3 | ROUNDTABLE DISCUSSION: Renewable Energy Practitioners

Lunch boxes available for pick up outside meeting room

12:20-1:20 **Namibia:** Policy and Country Objectives for Scaling up RE | *Kudakwashe Ndhlukula, Renewable Energy and Energy Efficiency Institute*
Philippines: RE Development from a Regulator's Perspective | *Rauf Tan, Energy Regulatory Commission*
South Korea: Global Green Growth Institute Objectives and Experiences | *Taeyong Jung, Global Green Growth Institute*
Global: Bloomberg New Energy Finance: Overview of RE Market Development Trends | *Ethan Zindler, New Energy Finance*

1:20-1:40 **Q & A and Group Discussion**

SESSION 4 | CUTTING-EDGE ENERGY SOLUTIONS

1:40-2:40 **Turkey:** Energy Market Reform & Making Cities Energy Efficient | *Sameer Shukla and Mara Warwick, World Bank*
Tanzania: Innovation in Delivery of Services | *Justina Uisso, Rural Energy Agency*
Mexico: Low Carbon Development | *Todd Johnson, World Bank*

2:40-3:00 **Q & A and Group Discussion**

SESSION 5 | INNOVATIVE THINKING - SHOWCASE OF ESMAP's KNOWLEDGE PRODUCTS

Chair: Mr. Istvan Dobozi, Lead Energy Economist, ESMAP

3:00-3:15 ESMAP's KNOWLEDGE PRODUCTS | *Agnes Biribonwa and Istvan Dobozi, ESMAP*
3:15-3:30 CLOSING REMARKS | *Representatives of ESMAP Donors*

SPEAKERS BIOS *In Alphabetical Order by Last Name*



Alassane Agalassou | MALI

Director of Rural Electrification

Malian Agency for the Development of Household Energy and Rural Electrification (AMADER)

Since January, 2010 M.AGALASSOU Alassane is Director of the Rural Electrification of the Malian Agency for the Development of the household Energy and Rural Electrification (AMADER). From April 2004 to December 2009, he is officer of Rural Electrification projects in the same agency. Before he joined the team of the AMADER, 06 years ago, AGALASSOU occupied responsibilities within the national Electricity Company (EDMsa) namely: i) Costumer Director; (ii) sale Manager; (iii) officer of Management control; iv) Assistant of the Chief Executive of EDMSA; and (v) Power Engineer, Project manager. Mr AGALASSOU holds a Diploma of higher education in management (3eme Cycle) - Strategy and Management of Company; University - PARIS I-SORBONNE and of the Center of Financial, economic and banking Studies (CEFEB) of the French Agency of Development (AFD). He also holds an electromechanic engineering degree of the InterAfrican Electrical Engineering College (ESIE) Bingerville-Côte d'Ivoire. He is member of the committee of advisors of Africa Electrification Initiative (AEI) project of the World Bank.



Tamara Babayan | ARMENIA

Director

Renewable Resources and Energy Efficiency Fund (R2E2 Fund)

Tamara Babayan joined the energy reforms society of Armenia about 11 years ago becoming a manager of heating and utility projects financed by the World Bank and continuously cooperate with all main players involved in energy efficiency and renewable energy area, including the projects financed by the IFIs, commercial banks, NGOs, public authorities, etc. Having not only technical, but also financial/economic background, experience in legal-regulatory improvement, she proposes innovative and at the same time realistic approaches to identify and solve problems and barriers for further development of the sector. During these years she actively cooperates with stakeholders and became one of the active members of green energy society. She is responsible for management of several projects implemented with support of the WB, namely Urban Heating Project, Renewable Energy Project, Geothermal Project, Electricity Supply Reliability and Energy Efficiency Project Preparation Facility and the GEF grant. Tamara was financial manager of WB Transport project (2000-2003) before appointment as a Director of Heating PIU (2003-2005) and then R2E2 Fund (2005-till now). From 1998-2000 she was in charge of financial planning and monitoring of donor projects portfolio within the Ministry of Finance and economy. She has a diploma in Public Administration from the Public Administration School of RA and a Diploma in Physics from the Yerevan State University in Armenia.



Rome Chavapricha | WORLD BANK

Senior Infrastructure Specialist - Middle East and North Africa Region

World Bank Group

Rome is a senior infrastructure specialist in the MENA Region where he joined in 2006. His work program spans investment lending, guarantee, and analytical and advisory activities in the energy and water sectors in Jordan, Egypt, Israel and Iran. Rome was a task leader for the ESMAP-funded power sector financial vulnerability assessments for Egypt and Jordan, concluded in February 2010. A financial analyst by training, Rome had worked in corporate and project financing prior to joining the Bank.



Badr Ikken | MOROCCO

*Director of Integrated Development
Moroccan Agency for Solar Energy (MASEN)*

Mr. Badr Ikken has been with the Moroccan Agency for Solar Energy (MASEN) as the Director of Integrated Development (R&D, Industrial Integration, and Education) since 2010. He has a mechanical engineering degree from the Technical University of Berlin.



Todd Johnson | WORLD BANK

*Lead Energy Specialist –Latin America and the Caribbean Region
World Bank Group*

Todd M. Johnson is a lead energy specialist in the Sustainable Development Department of the Latin America and the Caribbean Region of the World Bank. Since joining the Bank in 1991, he has worked on a variety of energy and environment-related topics, including acid rain control and climate change. He has coauthored numerous articles and reports, including China: Issues and Options in Greenhouse Gas Emissions Control (1994), Climate Change Mitigation in the Urban Transport Sector (2003), and Residential Electricity Subsidies in Mexico: Exploring Options for Reform and for Enhancing the Impact on the Poor (2009). He holds a PhD in economics from the University of Hawaii.



Taeyong Jung | SOUTH KOREA

*Deputy Executive Director
Global Green Growth Institute*

Dr. JUNG Tae Yong is currently the Deputy Executive Director of Global Green Growth Institute (GGGI) located in the Republic of Korea. He also serves as Board Member of Korea Society for Environmental Restoration and Revegetation Technology, and Coordinator of Asia Energy and Environment Modeling Forum (AEEMF). He was the Principal Climate Change Specialist of the Asian Development Bank (ADB) and the Senior Energy Economist of the World Bank, USA. He was formerly the project leader in Climate Policy Project at Institute for Global Environmental Strategies (IGES), Japan and the Executive Director at Council on Energy & Environment Korea (CEEK). He assumed the role of Senior Advisor of Energy and Climate Change Task Force in Presidential Transition Committee, Republic of Korea and Commissioner of Presidential Committee on Green Growth, Republic of Korea in 2009 to 2010. Educated at Seoul National University (BA), The State University of New Jersey (MA) and The State University of New Jersey (Ph.D.), In 2004, he was a Visiting Researcher at Joint Global Change Research Institute, University of Maryland, USA and a Joint Research Fellow at National Institute for Environmental Studies (NIES), Japan.



Mohua Mukherjee | WORLD BANK

*Senior Energy Specialist - South Asia Region
World Bank Group*

Mohua Mukherjee is a Senior Energy Specialist with the World Bank's South Asia Energy Unit. She has worked in various sectors including trade/finance/industry, municipal finance for urban water investments, sovereign debt management, health sector financing and health policy, macroeconomics, private sector development, and energy, in 26 countries (so far!) in five regions since she joined the Bank over 20 years ago. During a leave of absence from the World Bank from 1995-2000, she was recruited as a Vice President at Citibank, N.A. in Nairobi, Kenya, where she headed the Corporate Finance department and was responsible for the roll-out of new financial products for the bank's multinational and top-tier local corporate cli-

ents. Still in Nairobi, where she was also a weekly columnist writing about financial topics in the business section of The Daily Nation newspaper, Mohua was invited to join ABN AMRO Bank, to serve as Assistant General Manager and start up a similar Corporate Finance department to compete with Citibank in order for ABN AMRO to retain its premier corporate clients. ABN AMRO's high-value clients included large flower exporters and horticulture companies, who later became very established and reliable generators of foreign exchange and employment for Kenya. Back at the World Bank in 2000, Mohua worked in the Africa Region until 2009, in separate assignments covering both the private sector development group and the energy sector. She has recently joined the South Asia region's energy unit, where she is leading an initiative called the South Asia Regional Energy Studies Series (SARESS). SARESS seeks to build up the region's "intellectual capital" on the energy policy and implementation challenges faced by its clients as they balance the needs for increased energy production to sustain high rates of economic growth, with their desire to transit to a low carbon sustainable development strategy. ESMAP provides important financial support to SARESS.



Kudakwashe Ndhulukula | NAMIBIA

*Coordinator - Renewable Energy and Energy Efficiency Institute (REEI)
Polytechnic of Namibia*

Kuda is the Coordinator of the Renewable Energy and Energy Efficiency Institute (REEEI) at the Polytechnic of Namibia. As an energy engineer he has more than 10 years experience in energy related projects and environmental management systems. He gained valuable experience on all facets of electricity trading within Southern African Power Pool and energy management and has researched on energy and environmental policy. Kuda was born and educated in Zimbabwe. He joined REEEI in 2007 coming from Zimbabwe Electricity Supply Authority where he worked as an Electricity Trader. As Coordinator of REEEI, Kuda's main functions include identifying, sourcing and managing programmes and projects and coordinating research at the Institute. Current projects include; the Namibia Energy Regulatory Framework, Concentrating Solar Power Plant for Namibia, Energy Efficiency in Buildings and Energy Shops, amongst others. Kuda is a Certified Energy Manager and has an MSc in Renewable Energy Engineering and an MBA.



Ximing Peng | WORLD BANK

*Senior Energy Specialist – East Asia and Pacific Region
World Bank Group*

Ximing Peng, Senior Energy Specialist, based in World Bank Beijing Office. Mr. Peng worked as a senior power engineer in China State Power Corporation before he joined the Bank. He conducted the power system planning study, economic and financial analysis for many Bank-financed lending projects in China. After he joined the Bank in 2005, he mainly works on renewable energy and power sector related AAA and lending projects. He was the task team leader for several ESMAP projects, and now he is the TTL for a GEF project, two investment lending projects and two carbon financing project.



Sameer Shukla | WORLD BANK

*Senior Energy Specialist – Europe and Central Asia Region
World Bank Group*

Sameer SHUKLA, Senior Energy Specialist joined the Bank in June 1996 in the South Asia Region; he has been working in the Infrastructure and Energy Department of the Europe and Central Asia Region since November 2004. He is currently working as the team leader on the electricity and gas sector program of the Bank in Turkey; has been responsible for preparing, appraising and supervising projects in renewable energy, electricity transmission and distribution, generation re-

habilitation, and gas transmission investments. Also responsible for policy dialog on ongoing electricity sector reforms – implementation of an electricity market, supply security issues, clean technology development, privatization of distribution, restructuring and privatization of generation etc. Recent work includes leading the Private Sector Renewable and Energy Efficiency Project, which is the first project to be approved for using the Clean Technology Fund (CTF). Some highlights of his work in South Asia included leading a power restructuring project in Rajasthan, jointly managing a similar project in Uttar Pradesh, and working on the financial aspects of power sector restructuring in other Indian states such as Haryana. Jointly managed the preparation of a strategy for the Bank's involvement in the hydro sector in India, and started preparation for the first hydro project pursuant to this strategy. Also worked on several sub-national adjustment operations with primary responsibility for the dialog on power sector reforms and the integration of power sector finances into the overall fiscal framework. From 1994 to 1996, he worked in the Corporate Finance division of Price Waterhouse, focusing on consulting and financial advisory work in the energy sector. He holds an M.B.A. (Finance) from the Indian Institute of Management Calcutta, India.



Rauf A. Tan | PHILIPPINES
Commissioner
Energy Regulatory Commission

Rauf Tan is a Commissioner of the Philippine's Energy Regulatory Commission (ERC) with more than 25 years of extensive experience in the electric power industry in the fields of finance, marketing, management, utility economics, financial systems, public relations, privatization, and energy regulation. As an energy regulator, he is mainly responsible in the ERC's general functions relating to tariffs and rates, wholesale electricity spot market, open access and retail competition and strategic planning. He spearheaded the promulgation and implementation of the performance-based regulation (PBR) of the transmission and distribution utilities in the Philippines. He is now in the forefront of development and execution of the regulatory framework for Renewable Energy. Commissioner TAN is a Certified Public Accountant and obtained his Bachelors of Science in Business Administration and Accountancy from the University of The Philippines, Diliman in 1982.



Justina Uisso | TANZANIA
Projects Manager
Rural Energy Agency (REA)

Justina Pius Uisso has three years working with Rural Energy Agency after working for the Ministry of Energy and Minerals for the past twenty years and has experience from working with national and international energy issues including renewable energy and rural electrification related issues. Uisso holds a Masters degree in Survey Integration for Resource Development with specialization in Rural Energy Development. Co-ordinate the energy activities done by different NGO's, Gender and energy related issues and represent the Ministry on gender/energy activities. She has experience in mainstreaming gender concern in development planning and project management. Uisso has extensive experience from working with different energy stakeholders including Development Partners. Uisso is working as Project Appraisal and Supervision Manager. She is currently coordinating Tanzania Energy Development Project (TEDAP) financed by World Bank. This is the first project to employ the approach of Standardized Power Purchase Agreement and Tariff for small off-grid and renewable energy projects. Other project experiences include coordinated a program on Institutional Support to the Ministry of Energy and Minerals with four components; establishment of (i) Rural Energy Agency; (ii) Environmental Unit; (iii) Management of Energy Information System; and (iv) Capacity Building.

Uisso has experience of preparing Procurement Plan using World Bank guidelines and has participated in preparation of Expression of Interest and Request for Proposals (RFP) for consultancy services as well as taking part in the bids evaluation. In addition, Uisso participated fully during the formulation and review of the National Energy Policy and establishment of Rural Energy Agency and Fund.



Mara Warwick | WORLD BANK

Country Sector Coordinator - Turkey

Mara Warwick is an environmental engineer with an M.S. and Ph.D. from Stanford University. She has worked in the field of urban environmental management and disaster response for 16 years. She has managed water supply, wastewater, solid waste and flood control projects in China, the Philippines and Turkey. After the devastating earthquake in Sichuan Province, China in May 2008, Ms Warwick led the World Bank's emergency loan in support of the Government of China's reconstruction program. Since January 2010, Ms Warwick has been working in the World Bank's Europe and Central Asia region as Country Sector Coordinator for Sustainable Development for Turkey and is now based in Ankara. Ms Warwick is responsible for coordination of the World Bank's program of development policy and investment lending in the energy, environment, urban, rural development, transport and social development sectors. In addition, she leads the urban team's work in Turkey and is responsible for the municipal environmental services and sustainable cities agenda.



Ethan Zindler | UNITED STATES

Head Policy Analyst

Bloomberg New Energy Finance

Ethan Zindler is Head of Policy Analysis at Bloomberg New Energy Finance, the world's leading provider of data, research, and news on the clean and low-carbon energy sector. Zindler is charged with managing and expanding BNEF's coverage of key policy developments around the globe impacting renewables, biofuels, and energy efficiency. From 2006 to May 2010, Zindler served as BNEF's Head of North American Research. In that role, he set the firm's research agenda for the US, Canada, and Mexico while overseeing a regional team of analysts, researchers, and news writers. Based in Washington, Zindler's particular area of expertise is US clean energy policy and he has written extensively on the Obama administration's moves on key regulations as well as about legislation before Congress. Zindler serves as New Energy Finance's main spokesperson in North America and has been quoted extensively in the media, including in the Wall Street Journal, the Associated Press, Fortune, and elsewhere. He has spoken at numerous conferences including those organized by the United Nations, National Governors Association, Platts, and others. Zindler previously served in the Clinton White House and on several major political campaigns. He also spent two years as a reporter covering the controversy surrounding the proposed Cape Wind offshore wind farm. He holds an MBA from Columbia Business School and a BA from Georgetown University.

ESMAP TEAM

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Heather Austin | Publishing Associate

Ranjan Bose | Sr. Energy Specialist (Transport Efficiency)

Yvette Bossman | Extended Term Consultant (SME Specialist)

Agnes Biribonwa | Extended Term Temporary (Communications Assistant)

Amadou Camara (SDNRM) | Resource Management Analyst

Istvan Dobozi | Lead Energy Economist (Program Team Leader/Thematic Coordinator)

Jane Ebinger | Sr. Energy Specialist (Thematic Coordinator)

Miki Endo | Operations Officer (Trust Fund Administration)

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The Energy Sector Management Assistance Program (ESMAP) is a global knowledge and technical assistance program administered by the World Bank and assists low- and middle-income countries to acquire know-how and increase institutional capability to secure clean, reliable, and affordable energy services for sustainable economic development.

For more information about ESMAP's market transformation work, please visit us at www.esmap.org or write to us at:



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