



Energy Efficiency Training Seminar Central and West Asia Region

28-30 May, 2014

**Sheraton Imperial Kuala Lumpur Hotel
Kuala Lumpur, Malaysia**

Overview:

According to ADB's 2013 Energy Outlook, in the business-as-usual case, Central and West Asia's primary energy demand is projected to increase from 248.5 million tons of oil equivalent (Mtoe) in 2010 to 385.8 Mtoe in 2035 at an annual rate of 1.8%. Kazakhstan, Pakistan, and Uzbekistan will account for 80.4% of primary energy demand in Central and West Asia in 2035.

And yet, many of the countries in Central and West Asia are faced with electricity supply challenges due to facility deterioration and a lack of rehabilitation and maintenance, which are caused by tight financial situations.

End-use sector's energy efficiency is a key solution to meeting energy and economic challenges in developing Asia, including Central West Asia. Central and West Asia has the potential to save about 37.6 Mtoe in 2035 – or a 9.8% reduction – by actively promoting energy efficiency. Unlike approaches that simply expand energy supply, such as building new power plants, energy efficiency prioritizes actions that first reduce the need for energy. Such reductions may occur by decreasing energy losses in the supply chain, an approach known as supply-side energy efficiency. Another approach is to consume less energy for the same level of service, for example, when operating buildings, tools, products, and machinery. This strategy is known as demand-side energy efficiency.

This seminar has been organized with the major challenges and opportunities for energy efficiency as a driver of economic growth in Central West Asia in mind. The organizing institutions have been supporting the region in its efforts to develop a modern, secure and sustainable energy system. This training seminar intends to build on this momentum by showcasing good examples and lessons learned from energy saving technologies, policies, solutions and best practices from around the world.

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DAY 1 – Wednesday 28 May, 2014

Time	Activities
8:30 - 9:00	Registration
9:00 - 9:30	<p>Welcome Remarks:</p> <ol style="list-style-type: none"> 1. Dr. Wei-nee Chen, Chief Corporate Officer, Sustainable Energy Development Authority Malaysia 2. Mr. Rune Stroem, Director, Energy Division , Central and West Asia Department, Asian Development Bank
9:30 - 10:30	<p>Session 1. Introduction: Energy Efficiency Concept, Stakeholders, Barriers</p> <p>Lecturer: Joe Reynolds MBA, BSc (Hons), AIEMA, CIEH, Dip EM, PG Cert, IEMA registered Environmental Auditor Industrial Symbiosis Practitioner & Tutor United Kingdom</p>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<p>Session 2: Energy Efficiency as One Solution to Address Regional Energy Challenge</p> <p><i>This session introduces ADB's clean energy activities, ADB's 2013 Energy Outlook findings, and region-wide efforts to address energy challenges for sustainable development, and discuss the energy saving potentials in the region, in particular central and west Asia. It will also explore energy efficiency strategies, master plans, cooperation, and policy development according to IEA's latest 25 EE Policy recommendations</i></p> <p>Keynote presentation:</p> <p>Overview: ADB's Clean Energy Program, Asia-Pacific Energy Outlook, Rune Stroem Director Energy Division, Central and West Asia Department Asian Development Bank</p> <ol style="list-style-type: none"> 1. Energy Saving Opportunities in Central and West Asia Lin Lu Energy Division Central and West Asia Department Asian Development Bank 2. IEA 25 Energy Efficiency Policy Recommendations and Australian Energy Saving Schemes Melanie Slade Senior Programme Manager Energy Efficiency in Emerging Economies International Energy Agency
12:30 - 14:00	Lunch Break (Essence Coffee House, Level 1)

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Time	Activities
14:00 - 15:30	<p>Session 3: Energy Efficient Technologies in Building, Industry, Power and Transport Sectors</p> <p><i>Designing, and adopting energy-efficiency and demand-reduction technologies and programs for buildings, industrial, power and transport sector is challenging. Existing resources are not reaching target audiences. This session will explain the opportunities in three sectors, which has high potential of energy saving. Though the technology still need to be tailored by sub-sector and geography, the information exchange will help stakeholders and audiences (e.g., government agencies, finance institutes) to think through how EE can be worked out.</i></p> <ul style="list-style-type: none">• Energy Saving Technologies in Buildings• Energy Saving Technologies in Industries• Energy Efficient Technologies in Power Sector and Grid Management• Energy Saving Technologies in Transport <p>Lecturer: Joe Reynolds MBA, BSc (Hons), AIEMA, CIEH, Dip EM, PG Cert, IEMA registered Environmental Auditor Industrial Symbiosis Practitioner & Tutor United Kingdom</p>
15:30 - 16:00	Coffee Break
16:00 - 17:30	<p>Session 4: Understanding the EE project lifecycle</p> <ul style="list-style-type: none">• project design• project implementation, such as structuring the financing and executing the different components of the project• supportive legal frameworks• project completion and tying-up the financial close of the project• post-project validation, such as measuring & monitoring and evaluating EE benefits• developing country verses developed country perspective on EE project implementation and adoption <p>Lecturer: Dr Sanjay C Kuttan Director and Country Manager of DNV GL Singapore</p>
18:00 - 19:30	Reception (hosted by ADB)

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DAY 2 – Thursday 29 May, 2014

Time	Activities
9:00 - 10:30	<p>Session 5: Key barriers and challenges EE projects</p> <p><i>This session will examine and discuss practical issues that obstruct the development or scale-up of EE projects. These issues will be culled from a sample of EE sectors across Asia.</i></p> <p>Lecturer: Dr. Peter du Pont Vice-President International Development Consulting, Nexant Asia Bangkok, Thailand</p>
10:30 - 11:00	Coffee Break
11:00 - 12:30	<p>Session 6: Financing Models for Energy Efficiency</p> <p><i>This session will discuss the different mechanisms and considerations for financing energy efficiency activities.</i></p> <ul style="list-style-type: none">• Global EE Financing Structure• Regional Practice• Role of MDB/Commercial Banks <p>Lecturer: Dr. Peter du Pont Vice-President International Development Consulting, Nexant Asia Bangkok, Thailand</p>
12:30 - 14:00	Lunch Break (Essence Coffee House, Level 1)
14:00 - 15:30	<p>Session 7: Unlocking energy efficiency's potential: What still needs to be addressed?</p> <p><i>This facilitated session will consider remaining impediments to scaling up energy efficiency activity in C&W Asia, including institutional constraints, information gaps, and perceptions and capacity of stakeholders.</i></p> <ul style="list-style-type: none">• Which interventions will be effective in overcoming barriers in the C&W Asia region?• Do we need sectoral policies, or will cross-sectoral policies cover everything?• Choosing between regulatory and market policies – and tips for combining them <p>Lecturer: Dr Sanjay C Kuttan Director and Country Manager of DNV GL Singapore</p>
15:30 - 16:00	Coffee Break

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Time	Activities
16:00-17:30	<p>Session 8: Discussion session</p> <p>Facilitators: Joe Reynolds, Sanjay Kuttan, Peter du Pont, Melanie Slade, and Sonoko Sunayama</p> <p><i>The participants will work in small groups to discuss the key issues in EE project development. Each small group will take notes and prepare to report-out results.</i></p> <ul style="list-style-type: none">• Address key challenges within the policy development framework to support the adoption on energy efficiency projects and initiatives shown to work in Central and West Asia.• Mechanism on evolving policy and incentives that have been used to support EE projects achieve successful execution and commercialization of the project.• Present leading technologies, equipment and essential services such as financiers, consultants, ESCOs and capacity-building programs that help address these issues.

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DAY 3 – 30 May, 2014

Time	Activities
8:15 -12:00	Site visit: Malaysian GreenTech Corporation's Green Energy Office 8:15 Assembly at hotel lobby 8:30 Departure from hotel 9:30 Arrival at GEO Building 9:40 Video presentation on GEO Building 9:50 GEO Building presentation and Q&A 10:30 Group photo 11:15 End of site visit
12:00 - 14:00	Lunch Break (Essence Coffee House, Level 1)
	Close of workshop

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