

ASIA CLEAN ENERGY FORUM 2016

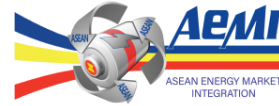
GEARING UP FOR THE POST-COP 21 ERA OF IMPLEMENTATION

SHOWCASING CLEAN ENERGY INNOVATIONS

Manila, Philippines 6-10 June 2016



ศูนย์อาเซียนศึกษา
จุฬาลงกรณ์มหาวิทยาลัย
ASEAN STUDIES CENTER
CHULALONGKORN UNIVERSITY



Deep Dive Workshop

Asia Clean Energy Forum (ACEF) 2016

“POWERING ASEAN: CAN THE NORDIC MODEL WORK?”

6 June 2016, Monday, 2.00 – 5.30 p.m.

6 ADB Avenue, Mandaluyong City 1550, Metro Manila, Philippines

Overview

Context

ASEAN Energy Ministers adopted connectivity and ASEAN energy market integration (AEMI) as the principal focus of their energy cooperation agreement in 2016-2025. The adoption of AEMI represents a significant paradigm shift, elevating common objectives from coordination of national energy policies, into integration of the ten ASEAN energy markets into a single one within the framework of the ASEAN Economic Community (AEC). Such a paradigm shift opens up new opportunities, whereby a regional ASEAN energy policy could be formulated on the basis of agreed common goals, and new tools could emerge to allow for their implementation throughout the AEC, for the benefit of all ASEAN member states.

A flagship of past ASEAN energy cooperation agreements has been the ASEAN Power Grid (APG), designed to establish connectivity and deliver energy security throughout ASEAN. Much progress has been accomplished, with an APG infrastructure successfully deployed, and several bilateral connections operating. The challenge now is for APG inter-connections to operate on a multinational basis, and to deliver electricity throughout ASEAN. The success of such approach would enhance energy security, expand access to electricity, improve deployment of renewable energy, and optimize the use of clean energy sources throughout the AEC.

The challenge for ASEAN is to adopt an approach that would allow the creation of such an ASEAN multinational electricity market, and that would secure its efficient operation through the APG.

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Objectives

The DDW will be an opportunity to present the ASEAN Power Grid, discuss its rationale, identify its potential benefits, outline its current challenges, and most importantly, brainstorm in an interactive manner on whether the Nordic Electricity Exchange could provide a model for the ASEAN Power Grid to allow better access to clean energy for ASEAN citizens and to share renewable energy more efficiently throughout ASEAN.

DDW documents will be posted on the AEMI Initiative website www.ASEAN-AEMI.org

Schedule

Time	Activity
2h-2h30	<p>ASEAN Power Grid: Where do we stand and what are the challenges in moving forward in the framework of the ASEAN Economic Community?</p> <p><i>Mr. Bambang Hermawanto, Chairman, ASEAN Power Grid Consultative Committee (APGCC)</i></p> <p>Discussion moderated by:</p> <p><i>Dr. Nawal Kamel, AEMI Initiative Director, ASEAN Studies Center, Chulalongkorn University</i> <i>Dr. Philip Andrews-Speed, Principal Fellow, Energy Studies Institute, National University of Singapore</i></p>
2h30-3h30	<p>The Nordic Electricity Exchange: What is it, how does it work, and where was it adopted around the world?</p> <p><i>Mr. Hans-Arild Bredesen, CEO, Nord Pool Consulting</i></p> <p>Discussion moderated by:</p> <p><i>Dr. Nawal Kamel, AEMI Initiative Director, ASEAN Studies Center, Chulalongkorn University</i> <i>Dr. Philip Andrews-Speed, Principal Fellow, Energy Studies Institute, National University of Singapore</i></p>
3h30-3h45	<p>Coffee</p>
3h45-4h45	<p>The Nordic Model beyond the Nordics: What have we learned from implementation of the Nordic model for Southern African States and in India?</p> <p><i>Mr. Hans-Arild Bredesen, CEO, Nord Pool Consulting</i></p> <p>Discussion moderated by:</p> <p><i>Mr. Bambang Hermawanto, Chairman, ASEAN Power Grid Consultative Committee (APGCC)</i> <i>Dr. Nawal Kamel, AEMI Initiative Director, ASEAN Studies Center, Chulalongkorn University</i></p>

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4h45-5h30	<p>Powering ASEAN: Can the Nordic model work for the ASEAN Power Grid? Under which conditions could it deliver success?</p> <p><i>Dr. Philip Andrews-Speed, Principal Fellow, Energy Studies Institute, National University of Singapore</i></p> <p>Discussion moderated by:</p> <p><i>Mr. Bambang Hermawanto, Chairman, ASEAN Power Grid Consultative Committee (APGCC)</i> <i>Dr. Nawal Kamel, AEMI Initiative Director, ASEAN Studies Center, Chulalongkorn University</i></p>
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Speakers

Mr. Bambang Hermawanto, Chairman, ASEAN Power Grid Consultative Committee (APGCC)

Mr Bambang Hermawanto was graduated as Bachelor in Electrical Engineer from Surabaya Institute of Teknology then continued his study in, University of Manchester Institute of Technology (UMIST) – Manchester, UK for Master Degree in Electrical Power System Engineering.

Most of his carrier, almost 30 years, was with PT PLN (Persero), the Electricity State Corporation of Indonesia. He was the Deputy Director of System Planning (2004 – 2008) then as the Vice President for International Relation before he retired in 2009.

He has been involving in the ASEAN Power Utility Forum (HAPUA-Head of ASEAN Power Utility/Authority) more than 15 years before he was assigned as the Chairman of ASEAN Power Grid Consultative Committee in 2009. He involved in developing the first ASEAN Interconnection Masterplan Study (AIMS) in 2005 and AIMS II in 2009.

He was also the invited lecture in the ASEAN Resident School on Electric Power Engineering (ARSEPE) organized by HAPUA. In addition, he was also the invited speaker in some seminars and conferences on Smart Grid and Electric Power Interconnection.



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Mr. Hans-Arild Bredeesen, CEO, Nord Pool Consulting, Norway

Hans-Arild has been involved in the electricity deregulation process since 1992. He has been involved as technical project manager developing the market systems at Nord Pool and Statnett as well as participating in the development of different participant systems in the Nordic market.

In his work in the international arena, Hans-Arild has investigated international markets and had key roles in the development of strategies and detailed rules for Trading, Scheduling, and Settlement systems for regulators, power exchanges and system operators in California, Albania, Bulgaria, Croatia, India, Romania, Turkey, Southern Africa, UK, France, South-east Europe and Ireland among others. Hans-Arild has extensive international experience from various trading arrangements.

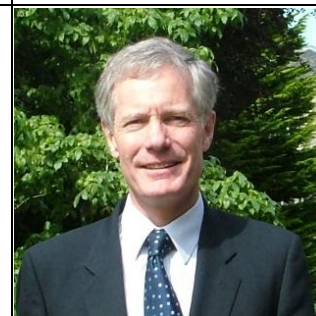
Hans-Arild has been involved in developing new product offerings in a continuous evolving electricity market and was one of the resources in the project group that enabled the start of the NCE (Norwegian Centre of Expertise) in Smart Energy Markets in Halden, Norway. He is currently a partner in this network. Hans-Arild has also been employed as a short-term expert within Energy for the World Bank where he is involved in the energy market development in Central Asia as well as South-east Europe.

Hans-Arild is now the CEO of Nord Pool Consulting, the consulting company of Nord Pool – the power exchange for the Nordic, Baltic and UK markets.



Dr. Philip Andrews-Speed, Principal Fellow, Energy Studies Institute, National University of Singapore, Singapore

Dr Philip Andrews-Speed has 35 years in the field of energy and resources, starting his career as a mineral and oil exploration geologist before moving into the field of energy and resource governance. Until 2010 he was Professor of Energy Policy at the University of Dundee and Director of the Centre of Energy, Petroleum and Mineral Law and Policy. His main research interest is the political economy of energy and resource governance, at national, regional and global scales. China has been a principal geographic focus of his research for 25 years. His current research activities include China's energy transition, the governance of unconventional gas exploitation, energy market integration in Southeast Asia, and the governance of the global energy and resources. Recent books include *China, Oil and Global Politics* (Routledge, 2011) with Roland Dannreuther, *The Governance of Energy in China: Transition to a Low-Carbon Economy* (Palgrave MacMillan, 2012), and *Want, Waste or War? The Global Resource Nexus and the Struggle for Land, Energy, Food, Water and Minerals* (Routledge, 2015) with five co-authors.



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Dr. Nawal Kamel, AEMI Initiative Director, ASEAN Studies Center, Chulalongkorn University, Thailand

Dr Nawal Kamel is the Director of AEMI Initiative, ASEAN Studies Center, and Visiting Professor at the Faculty of Economics, Chulalongkorn University, Bangkok. Until 2012, she was a Director at the World Bank, in Washington, D.C., a position she had held since 1994.

During her career, Nawal has also served at the Deputy Ministerial level in the Department of Natural Resources, Canada, working closely with the Minister to advise on decisions regarding his portfolio of energy, mining, and forestry. She was the Canadian lead for a joint Canada-US Task Force on electricity distribution in North America, co-chaired by the Ministers of Energy from both the US and Canada. The success of this Task Force earned her the 2005 Key Women in Energy-Global award from the Energy Marketers Association in the US.

Nawal has also spent two years at the Oxford Institute for Energy Studies (UK), an academic organization dedicated to research in energy and to fostering a dialogue between energy producing and consuming countries, and private sector entities. Finally, as part of her contribution to her country of origin, Nawal was also the founding Executive Director of the Sawiris Foundation for Social Development, the first family Foundation dedicated to social development in Egypt. Nawal holds a Doctorate in Mathematics from the Sorbonne (Paris) and a Doctorate in Economics from Oxford (UK).



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