
Title: **Micro-Grids: Energy Network Roadmap to Sustainability, Security, Reliability and Ubiquity**

Speaker: **Mr. Laszlo Lakatos-Hayward, Chief Technology Officer, AEG Power Solutions BV**

Date: **Wednesday, 19th May 2010**

Time: **10:30 am to 12:00 noon**

Venue: **ESI Conference Room
29 Heng Mui Keng Terrace
Block A #10-01
Singapore 119620**

For better interactions with the speaker, we are limiting attendance at this Special Topics ESI Energy Forum.

Please e-register at www.esi.nus.edu.sg **e-Registration**.

For more information, if needed, please call or contact Dr. Michael Quah at 65165360 or write to esiqcm@nus.edu.sg Note: This seminar will be limited to the first 40 respondents.

About the seminar:

Increasing global interest in renewable energy sources that are modular in size, scale, and system configuration, has driven the market potential of micro-grids and distributed generation systems. It has the potential to remove our dependence on oil and enable the other 2 billion people to improve their quality of life in our generation with remote off-grid solutions. Great interest has been shown to regions like SE Asia where natural resources favour this type of solution. Specifically in Singapore, interest is high in Intelligent Energy Systems, “smart grids” and test-bedding projects, such as the EMA Pulau Ubin project, micro-grids. At the Energy Studies Institute, Dr. Michael Quah, Principal Fellow and Chief Scientist, has also made presentations globally on issues of energy diversity and the need for “command and control” systems, where the system integrates a variety of power sources (AC, synchronous and asynchronous, with DC systems) to produce high quality power. Such innovations are often touted as generation solutions which could be embedded into T&D (transmission and distribution) networks or as off-grid applications for use in remote locations, rural electrification, eco-resorts, and the like.

This seminar, by Mr. Lakatos-Hayward, will shed more (and new) light into the challenges and new business opportunities for micro-grids. The speaker will expound the synergies of such systems with the rapid growth in the modern telecommunications industry.

About the Speaker:

Laszlo Lakatos-Hayward
Chief Technology Officer

Corporate Responsibilities: Creation, communication and implementation of AEG's technical and scientific vision and strategy; including technology road mapping and management, advanced technical programs, tactical and applied programs, intellectual property and corporate standards delivered thru the leadership of the Technical Steering Committee. Laszlo Lakatos-Hayward graduated from Electrical Engineering at the University of Toronto in 1990, specializing in "System Integration and Controls in Power Architectures". After graduation he was a research fellow at the university, working on "Controls of Resonant High Power Induction Heating Systems". Following the university tenure he joined Tectrol Inc as a design engineer, where he oversaw the design of novel medical and industrial power products. In 1998 he joined Saft Power Systems as an R&D manager. In the following 5 years Mr. Lakatos-Hayward progressed to become the Managing Director for North American Operations. Mr. Lakatos-Hayward, joined the executive management group of AEG Power Solutions in February 2005, as Chief Technology Officer.