

Singapore's Long Term Energy Future PV, Storage, & Virtual Power Plants

**Monday, 09 October 2017
9:15 am - 5:30pm**

**ESI Conference Room
Energy Studies Institute
29 Heng Mui Keng Terrace
Block A, #10 – 01
Singapore 119620**

Abstract:

The seamless integration of solar PV and energy efficiency improvements form the key pillars of Singapore's climate action plan to fulfill its commitments under the Paris Climate Change Agreement. However, issues with intermittency, as well as limited land space remain key constraints to the mass deployment of solar in the small island state. Recent technological advancements in energy storage systems and innovative deployments of PV installations such as floating PV, have opened up new opportunities for solar in Singapore. Such developments are accompanied by shifts in policies, such as the Smart Nation programme in Singapore, which aims to facilitate a change in the way people consume energy, not only through the use of smart devices, but also through innovative ways for consumers to interact with energy through demand response capabilities. This expert consultation gathers key stakeholders to discuss the long term outlook for the electricity sector in Singapore, with a particular focus on how developments in solar, energy storage technologies, as well as potential business innovations such as prosumage and Virtual Power Plants will help forge the future electricity landscape.

Programme

09:00 – 09:15	Registration
09:15 – 09:20	<p>Opening Remarks Professor Anthony David Owen, Principal Fellow, Division Head – Energy Economics, ESI</p>
09:20 – 09:45	<p>Introduction to Research Project Dr. Yang Liu, Senior Research Fellow, ESI Mr. Gautam Jindal, Research Associate, ESI</p>
09:45 – 10:30	<p>Technical and Economic Developments in Distributed PV Mr. Christophe Inglin, Managing Director, Energetix Pte Ltd</p>
10:30 – 10:45	Refreshments Break
10:45 – 11:30	<p>Session Chair – Dr. Dina Azhgaliyeva, Research Fellow, ESI</p> <p>Integrating Intermittent Renewables in Electricity Markets Dr. Jenny Riesz, Principal, Australian Energy Market Operator, Australia</p>
11:30 – 12:15	<p>Virtual Power Plants Ms. Stephanie Bashir, Senior Director (Public Policy), AGL Energy, Australia</p>
12:15 – 13:45	Lunch at Chilli Padi Nonya Café
13:45 – 14:30	<p>Session Chair – Ms Jacqueline Tao, Research Associate, ESI</p> <p>Operation and Economics of Storage in Electricity Markets Dr. Qixin Chen, Associate Director for Energy Internet Innovation Research Institute, Tsinghua University, China</p>
14:30 – 15:15	<p>System Effects of PV Prosumage and Self-consumption – The German Perspective Dr. Alexander Zerrahn, German Institute for Economic Research (DIW Berlin), Germany</p>
15:15 – 15:45	Refreshments Break
15:45 - 16:30	<p>Session Chair – Professor Anthony Owen, Principal Fellow, ESI</p> <p>Business Models for Storage: Implications for Singapore Mr. Mark Leslie, Director Asia Pacific, AES Energy Storage, Singapore</p>
16:30 – 17:30	<p>Roundtable Discussion PV, Storage and VPPs in Singapore’s Long Term Energy Future</p>
17:30 – 18:30	Refreshments and Networking