

SCEM NETWORKING SESSION

Complimentary event for SCEMs
2 SCEM-PDUs Awarded

EVENT OVERVIEW

This event is to bring the SCEMs together to network among the peers and to explore new opportunities. SEAS invites companies to present on new technologies, systems or regulations so that the SCEMs can learn and get to know the latest updates of the industry. SCEMs are encouraged learn and share their experiences in this session.

This networking session will touches on two topics:, Energy Information Systems and Solar.

Energy Management Systems (EMIS & EMS)

The benefits of energy information systems (EMIS & EMS) and data to drive energy savings are well documented. The recent Government-led Smart Nation initiatives re-inforce this. However, the steps to implement are often daunting for many plant level personnel. The presentation will focus specifically on the practical aspects and benefits of delivering energy information systems using examples from Singapore-based industrial projects. It will address the steps involved in both designing and delivering the projects and the challenges that were overcome. It will also introduce eSight Energy, one of the world's most advanced energy management software platforms with comprehensive analysis tools. This hardware independent, web-based software has been helping industrial organisations reduce energy consumption, costs and emissions since 1998. The presentation will provide numerous examples of the various tools that can greatly assist energy managers in reaching their targets and support their NEA reporting requirements.

Solar

Solar photovoltaic (PV) solutions are growing beyond niche projects to become standard rooftop fixtures. They offer an attractive return on investment without the need for any subsidies. Building developers can further improve returns by designing for PV-compatibility. This presentation explains the fundamentals to consider at the building planning stage, to reduce installation cost while improving system reliability and energy yield.

The presentation addresses key regulatory requirements, recommends PV-compatible roof design, and gives some useful guidelines for selecting key component suppliers and installers. It also discusses the economics of rooftop PV systems, examining three different business models: outright ownership, leasing and roof rental.

9 DECEMBER 2016

1:30PM - 5:00PM

Cleantech Seminar Room

1 Cleantech Loop, Cleantech One, Singapore 637141



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PROGRAMME OUTLINE

- 1.30pm Registration
- 2.00pm Welcome by SEAS
Updates on Renewable and Energy Efficiency in Singapore
Overview of programme of the day
- 2.30pm Energy Information Systems (by Teale Asia)
 - why bother with monitoring and data when we can just upgrade equipment?
 - How do we get all of our existing systems to talk the same language?
 - How do we convince our management there is a ROI in data?
 - What are the tools and techniques available to make my life easier as an energy manager?
 - Is anyone else doing this and succeeding?
- 3.30pm Solar (by Energetix Pte Ltd)
 - The basics - generate electricity while cooling your roof
 - Which PV technology to use?
 - Inverters & modules - where to put them?
 - Roof types - metal, RC and trellis
 - SCDF and EMA requirements
 - Energy yield and economics
 - Selecting suppliers and installers
 - Business models - ownership, leasing, roof rental
- 4.30pm Networking Session

WORKING PARTNERS:

ABOUT THE SPEAKERS



Mr. Adrian Bukmanis (Technical Director, Teale Asia) has spent over fifteen years working with some of the largest multi-national companies in a technical advisory and consultancy role. As part of this he held responsibility for the design and implementation of large enterprise energy management information systems in Singapore.

He has been actively involved in Singapore providing services to the industrial and commercial sector. This has included overseeing the implementation of M&V (measurement and verification) and Monitoring and Targeting (M&T) platforms. He also has experience implementing measurement solutions for energy audits along with scoping demand-side solutions and providing the associated financial justifications.

In addition, he has built expertise around the ISO 50001 standard for energy management and has helped businesses implement the framework and associated monitoring platforms. He has a strong belief in the standard which is based on the PDCA methodology of constant improvement in order to reduce energy consumption.

He is an active member of the Sustainable Energy Association of Singapore (SEAS) and has completed the SCEM Professional and Green Mark Manager programs in Singapore.



Mr. Ho Chee Ming is the Technical Director and one of the founding partners of Energetix Pte Ltd, which develops projects and offers turnkey design and installation of solar PV systems. Chee Ming oversees all technical aspects of the organisation from design & engineering our solar PV solutions, to ensuring projects are implemented on time and on target and in accordance with international PV standards.

Prior to co-founding Energetix, Chee Ming was also a founding Director in Phoenix Solar Pte Ltd, a joint venture between three local partners and the German company Phoenix Solar AG, a leading European photovoltaic (PV) solar systems integrator. From 2006 to 2015, Chee Ming grew the technical team to 17 full-time staff, and was responsible for designing and installing over 80MWp of utility scale solar farms and rooftop systems.

Chee Ming started in solar PV systems design and installation at Siemens Showa Solar in 1995. Siemens Solar was acquired by Shell Solar in 2002, which was then acquired by Solarworld in 2005. From 1995 - 2005, Chee Ming held roles in system design, project management, technical sales, systems procurement and IT management.

Chee Ming has deep technical expertise in PV power plant design and project management, having led megawatt-scale PV projects in Singapore, India, China, Thailand, Malaysia, the Philippines, Jordan, and Saudi Arabia.

Chee Ming holds a BSc in Management and a Diploma in Electrical Engineering.

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REGISTRATION FORM Yes! I would like to register for this programme I am unable to attend but please put me on your mailing list

PARTICIPANT'S DETAILS		Number of Delegates	Fees Payable
1	Name (Dr/Mr/Mrs/Ms)		Designation
	HP No	Email	SCEM <input type="text"/>
2	Name (Dr/Mr/Mrs/Ms)		Designation
	HP No	Email	SCEM <input type="text"/>
ORGANIZATION'S DETAILS			
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Company Address			
Contact Name			Tel
Email			Fax