

A One Day Technical Seminar

Building A Sustainable Future: Energy Efficiency for a Low Carbon Economy

27 Sep 2023, Wed
9am - 5pm

Connexion Conference
& Event Centre
Kuala Lumpur, Malaysia



Key Speaker

Er. Professor Lock Kai Sang
Head, Energy Efficiency Technology Centre
Singapore Institute of Technology

Seminar Outline

An overview of several engineering developments that drive energy efficiency for a low carbon economy:

- ▶ Solar PV systems
- ▶ Energy storage systems
- ▶ Electric vehicle charging technology and infrastructure
- ▶ DC power distribution systems

60-min Panel Discussion With Industry Experts

Challenges & Opportunities

in Building a Sustainable Future –
Energy Efficiency for a Low Carbon Economy

Registration Opens
3 Aug 2023
Closes 22 Sep 23, 5pm

Approved with
6 CPD
IEM23/HQ/320/S

Ticketing Details ▶▶▶▶▶▶▶▶▶▶

250 RM
(Before 6% SST)

- ★ Networking Session with local engineers!
- ★ 2 Tea Breaks
- ★ 1 Lunch
- ★ Close Up Session with our distinguished speakers!
- ★ Digital Certificate
- ★ Special discounts on Hioki products!



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Building A Sustainable Future: Energy Efficiency for a Low Carbon Economy

Synopsis ▶▶▶

The global race to a sustainable low-carbon economy is undergoing, and is going to be one of the greatest challenge in the post-pandemic world. In countries with lack of opportunities to tap on alternative energy, adopting energy efficiency policies continue to be the pivotal strategy to reducing emissions. Engineers around the world would need support to tackle the challenges in the transition to a green economy, so as to catch up with the rapid advancement in cutting edge technologies. By doing so, engineers will then be able to pave the way for a sustainable future for the next generation.

This workshop provides an overview of several engineering developments that drive energy efficiency for a low carbon economy:

- ▶ Solar PV systems
- ▶ Energy storage systems
- ▶ Electric vehicle charging technology and infrastructure
- ▶ DC power distribution systems

Program ▶▶▶

Session 1

08.15am	:	Registration
09.00 am – 09.05 am:		Introduction from Hioki Singapore
09.05 am – 10.15 am:		Session 1: Solar PV System
10.15 am – 10.35 am:		Networking Tea Break
10.35am – 11.35 am:		Session 2: Energy storage system (focusing on battery-based or supercapacitors)
11.35 am – 12.30 pm:		Session 3: Panel Discussion with Industry Experts
		Challenges and Opportunities in Building A Sustainable Future – Power Efficiency from Low Carbon Energy Solutions
12.30pm – 1.30pm:		Lunch Break

Session 2

1.30pm – 2.15pm:		Recapped and Q & A for Session 1
2.15pm – 3.30pm		Session 4: Grid-to-vehicle (vehicle charging) and Vehicle-to-grid technology
3.30pm – 3.50pm:		Networking Tea Break
3.50pm – 5.05pm:		Session 5 : DC power distribution
5.05pm – 6.00pm:		Final Q & A
6.05pm – 6.15pm:		Closing & Farewell

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Speaker's Profile



Key Speaker

Er. Professor Lock Kai Sang

BSc PhD FSEng Hon FIES SFAAET FIET FICS FSIArb PEng PBM BBM
Head, Energy Efficiency Technology Centre
Singapore Institute of Technology

Professor Lock has a unique blend of practicing and academic experience acquired through a career which is equally split between the industry and the academia. He received his B.Sc. (1st Class Honours) in Electrical and Electronics Engineering in 1975 from the University of Strathclyde, UK. He completed his Ph.D. degree at the same university in 1979 researching on the design optimization of electrical machines. He joined the National University of Singapore as a lecturer in 1980 and was the Head of its Power and Machines Division, Department of Electrical Engineering, when he left in 1997 to set up his consulting practice. He has authored over 250 consultancy reports, mainly in power quality and reliability, lightning and surge protection, EMC, failure investigations, and design for mission-critical facility. He has been active in dispute resolution as an expert witness, mediator, adjudicator and arbitrator.

He returned to the academia in 2016 as a Professor (Engineering) at Singapore Institute of Technology and is concurrently the Head of the Energy Efficiency Technology Centre. He plays an active role in energy efficiency, being the Chairman of Accreditation Committee for Energy Service Companies (ESCOs) and the Co-Chair of Steering Committee of Singapore Certified Energy Managers (SCEM) Scheme. He is a Fellow of Academy of Engineering, Singapore, Senior Fellow of ASEAN Academy of Engineering and Technology and Honorary Fellow of ASEAN Federation of Engineering Organizations. He is an Emeritus President and Honorary Fellow of the Institution of Engineers, Singapore. He served as a Board Member of the Professional Engineers Board, Singapore for 14 years.