25 & 26 AUG 2016 | 9:00AM TO 5:00PM | WWW.SEAS.ORG.SG

SOLAR 101: INTRODUCTION TO SOLAR PV SYSTEMS

COURSE OBJECTIVES

With the increasing number of solar PV systems installed all around the world, including Singapore, there is the need to have more trained professionals to help carry out this growth. The training course is a basic but very informative 2-day introduction to help students understand about the workings of Solar PV energy systems and perhaps enlighten them to proceed further into developing solar PV studies and engineering.

This basic course will cover the fundamental subjects such as energy and energy effciency in the home/ business, discuss the best ways to capture sunlight and takes a look at the system design and operational workshops of these individual components that are connected together to create a solar PV system.

LEARNING OBJECTIVES

- To understand energy and apply energy efficiency in the home and business
- To understand how to measure electrical energy with an energy meter and how to apply using them with different Solar PV export topologies
- To understand solar irradiance values and how it effects solar PV generation
- To understand what Peak Sun Hours (PSH) are and how to apply to calculating solar PV energy yields
- To understand the constructional sections of Solar PV modules
- To understand the different types of Solar cell technolgoies and learn how these can be best selected for different operating environments
- Learn how to install solar PV modules, with understanding the key fundamentals of solar PV module orientation and tilt values

PDUs TO BE AWARDED TO SCEMs & PROFESSIONAL ENGINEERS

APPLICABLE FOR PRODUCTIVITY AND INNOVATION CREDIT (PIC)

SEAS
Sustainable Energy Association of Singapore

25 & 26 AUGUST 2016
9:00AM - 5:00PM

SEAS Training Centre
9 Penang Road, #08-02 Park Mall, Singapore 238459

SEAS Sustainable Energy Association of Singapore

Supported by: associate an NTUC initiative

SOLAR 101: INTRODUCTION TO SOLAR PV SYSTEMS

PROGRAMME OUTLINE

Day 1

- Definitions of binary prefixes
- Energy overview
- Energy efficiency in the home
- Measuring electrical energy
- Solar export topologies
- What is a grid connected solar system
- olar energy generation
- Solar photovoltaic (PV) systems

Day 2

- Solar cell technologies
- Solar PV modules
- The solar inverter
- Understanding irradiance
- Solar system installation basics
- Technical design details
- Solar energy generation (yield)
- Installing solar PV modules
- Connect solar PV modules

Training Partner:

SOLARPV EXCHANGE

ABOUT THE TRAINER

Mr. Kelvin Ang has spent the past 9 years working in the Solar and Renewable Energy sector, specializing in the technical design engineering, project management and solar training. Throughout his career, Kelvin has worke on various projects across Asia-Pacific.

He is also a certified Solar Integrator trainer, and is experienced in providing training on solar and renewable energy matters. He ha also conducted trainings in Malaysia and Indonesia for solar-related companies and engineers.

RATES

EARLY BIRD (before 1 July)	NORMAL FEE	GROUP FEE
S$530.00 (SEAS Member) S$590.00 (Non Member)	S$590.00 (SEAS Member) S$800.00 (Non Member)	S$520.00 (4+ delegates from 1 orginization)

*** NTUC and EENP member is entitled to SEAS member rate**

*** Fees inclusive of GST**

*** SEAS reserves the right to make changes to the trainer, programme, venue, cancel or reschedule the programme if necessary or warranted by circumstances beyond our control**

*** Paymenet to be made by the early bird closing date to enjoy early bird rate**

*** Enjoy group discount for 4 or more delegates registered at the same time from the same organization and same billling source**

*** Only one type of discount scheme is applicable at any one time**

*** Payment to SEAS & Address:** Please send a crossed cheque to:
Sustainable Energy Association of Singapore, 9 Penang Road, #08-02 Park Mall, Singapore 238459

CALL US AT 6337 9886 TO ENQUIRE

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)		NRIC No	Designation
	HP No	Email		PEB ☐ SCEM ☐
2	Name (Dr/Mr/Mrs/Ms)		NRIC No	Designation
	HP No	Email		PEB ☐ SCEM ☐

ORGANIZATION'S DETAILS

Company Name	
Company Address	
Contact Name	Tel
Email	Fax