



GREEN DATA CENTRE DESIGN

COURSE OVERVIEW

Energy expenditures account for the vast majority of the operating costs during a data centre lifetime, and this fact is becoming critical in order to ensure business profitability.

This 2-day green data centre design course will equip participants with in-depth knowledge of SS564 and Green Mark for New and Existing Data Centre. The 2-day course will also include design best practices and case studies to empower participants with knowledge and ideas to green their data centres.

COURSE OBJECTIVES

At the end of the course, the participants will be able to:

- understand Green data centre standards such as Green Mark for new and existing data centres
- apply the best practices in chiller plant, computer room air-conditioning, lighting and uninterruptible power system design
- optimise, monitor and maintain the data centres at peak energy efficiency

**SCEM PDUs TO
BE AWARDED**

**PEB PDUs TO BE
AWARDED**

**APPLICABLE FOR
PRODUCTIVITY AND
INNOVATION CREDIT (PIC)**

1 & 2 JUNE 2017

9:00AM - 5:00PM

Venue TBA

GREEN DATA CENTRE DESIGN

PROGRAMME OUTLINE

Session 1: Overview of Data Centre Standards and Regulations

- Singapore standard SS564 Green Data Centre
- Green mark for new data centre
- Green mark for existing data centre
- Policies and trend for Green Data Centre

Session 2: Energy Efficiency Air Conditioning Design

- Chilled water system design
- Energy efficient chillers, chilled water pumps, condenser water pumps and cooling towers
- Airside system design
- Energy efficiency CRACs and AHUs

Session 3: Energy Efficient Electrical System Design

- UPS
- Generators
- Transformers
- Power distribution units
- Lightings

Session 4: Energy Management System

- Air conditioning system
- Data centre

ABOUT THE TRAINER



Mr Steven Kang has been involved in the design of hyper-efficient HVAC system for Platinum rated Green Buildings and has been invited to sit in the advisory committee of Platinum rated green buildings. He has spoken at various forums on HVAC designs, energy optimisation and green buildings. He has been appointed to assess the design of new data centres as well as audit and improve the energy efficiency of existing data centres.

Appointed as Ambassador for the Singapore's Building Construction Authority, he also sits on the committee for Singapore Energy Auditor Certification, Singapore standard on Chiller Plant Measurement and Verification (SS591), Singapore Standard on Air-Conditioning and Mechanical Ventilation in Buildings (SS553) and was in the technical review committee of Vietnam Green Building Council's Sustainable Building Assessment System. Steven is a Singapore Certified Energy Manager (SCEM), a Certified Green Mark Professional (GMP) and a Certified Energy Auditor (EA).

RATES

| EARLY BIRD (before 3 Mar) | NORMAL FEE | GROUP FEE |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| SEAS Member: S\$650.00 Non Member: S\$780.00 | SEAS Member: S\$780.00 Non Member: S\$936.00 | S\$700.00 (4+ delegates from 1 organization) |

* EENP member is entitled to SEAS member rate

* Fees inclusive of GST

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

* Enjoy group discount for 4 or more delegates registered at the same time from the same organisation and same billing 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, 1 Cleantech Loop, #02-16 Cleantech One1, Singapore 637141

CALL US AT 6338 8578 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) HP No Email | NRIC No Designation PEB <input type="checkbox"/> SCEM <input type="checkbox"/> |
| 2 | Name (Dr/Mr/Mrs/Ms) HP No Email | NRIC No Designation PEB <input type="checkbox"/> SCEM <input type="checkbox"/> |

ORGANIZATION'S DETAILS

| | |
|-----------------|-----|
| Company Name | |
| Company Address | |
| Contact Name | Tel |
| Email | Fax |