



GREEN DATA CENTRE OVERVIEW & OPERATIONS

COURSE OVERVIEW

Energy expenditures account for the vast majority of the operating costs during a data centre life-time, and this fact is becoming critical in order to ensure business profitability. During this one-day course, we will discuss how to manage a data centre efficiently, focusing on both design and operational issues, and showing the state-of-the-art practices to reduce costs in the sector.

COURSE OBJECTIVES

The participants of the course will acquire the following knowledge:

- Strategies and approaches to efficient DC design
- Manage daily Data Centre operations efficiently
- Manage the facilities in a Data Centre efficiently
- Deepen energy and cost management knowledge
- Evaluate procedures to reduce operational expenditures in Data Centre Environments
- Analyse the lay-out of a Data Centre and apply strategies to improve its overall condition

**PDU AWARDED
FOR SCEMs and
PROFESSIONAL
ENGINEERS**

**APPLICABLE FOR
PRODUCTIVITY AND
INNOVATION CREDIT (PIC)
VISIT IRAS.GOV.SG FOR
MORE INFORMATION.**

27 APRIL 2017

9:00AM - 5:00PM

SEAS Training Centre
Venue To be Confirmed



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PROGRAMME OUTLINE

Session 1: Guidelines for Energy Efficiency Data Centres

- Engineering, Deploying, Operating & Organising for Efficiency
- Operational Efficiency & Reliability
- Guidelines form standards: ANSI/TIA-942, SS 564, ISO 50001, ASHRAE
- BCA/IDA Green mark and LEED
- Efficiency v Reliability (a look into uptime TIER standard)
- Design strategies and solutions for new and existing Data Centres

Session 2: Energy Efficiency Best Practices

- Trends in global energy and Data Centre power consumption
- Energy efficiency drivers for different Data Centre types
- Typical “worst practices in the Data Centre”
- Metrics and regulations that apply to and impact energy efficiency
- Major savings related to energy efficiency in power and IT equipment

Session 3: Managing Data Centre Operations

- Floor management procedures and duties such as rack space allocations, management of installers, from an energy efficiency point of view
- Load distribution and management
- Computational Fluid Dynamics (CFD) analysis, capacity and configuration management solutions
- Equipment inventory and individual energy monitoring
- Reducing energy consumption while ensuring reliability: strategies and approaches

Session 4: Energy and Cost Management

- Corporate drivers for energy management
- Corporate and social responsibility
- Brand management
- Basic metrics for data centre efficiency. Capability and Limitations
- Key roles and responsibilities in the energy efficient initiative
- Space, cooling and power capacity constraints in the data centre
- Basic energy efficiency management techniques to the areas of IT, cooling, electrical systems
- Reporting data centre costs

ABOUT THE TRAINER



Mr Carlos Garcia is a Senior Engineering Consultant, a Singapore-based consulting firm, currently focusing its activities on energy efficient Data Centre design in Europe, Southeast Asia and South America. Mr Garcia holds a M.Sc. in Engineering from UPF University (Barcelona) and is a Data Centre Specialist in Design accredited by Datacentre Dynamics.

RATES

EARLY BIRD (before 26 February)	NORMAL FEE	GROUP FEE
S\$350 (SEAS Member)	S\$450 (SEAS Member)	S\$400 (4+ delegates from 1 organization)
S\$450 (Non Member)	S\$550 (Non Member)	

* Fees inclusive of GST

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

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

* Payment to SEAS & Address: Please send a crossed cheque to:

Sustainable Energy Association of Singapore, 1 Cleantech Loop, #02-16 Cleantech One, 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)		NRIC No
	HP No	Email	Designation
			PEB <input type="text"/> SCEM <input type="text"/>
2	Name (Dr/Mr/Mrs/Ms)		NRIC No
	HP No	Email	Designation
			PEB <input type="text"/> SCEM <input type="text"/>

ORGANIZATION'S DETAILS

Company Name	
Company Address	
Contact Name	Tel
Email	Fax