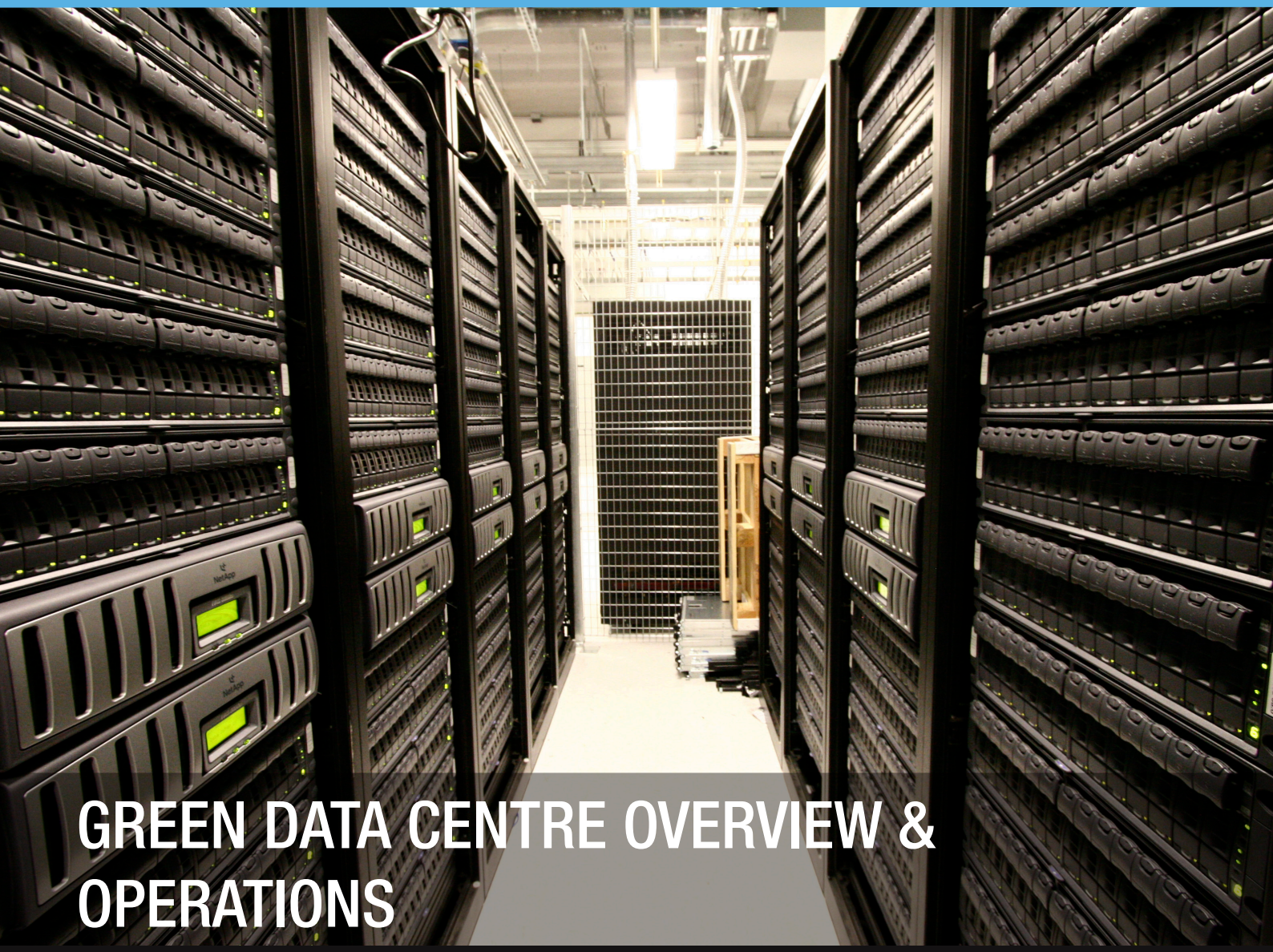
14 APRIL 2016 | 9:00AM TO 5:00PM | WWW.SEAS.ORG.SG



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 opeartional 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

PDUs AWARDED FOR SCEMs and PROFESSIONAL ENGINEERS

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

SEAS
Sustainable Energy Association of Singapore

14 APRIL 2016
9:00AM - 5:00PM

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

SEAS
Sustainable Energy Association of Singapore

GREEN DATA CENTRE OVERVIEW & OPERATIONS

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 TRAINERS

Mr Lluis Gironella is the Engineering Director of a Singapore-based consulting firm leading its activities in Southeast Aisa with regards to energy efficiency and data centre design. Mr Gironella holds an MBA from ESADE Business School and M.Sc. in Engineering from the Polytechnic University of Catalonia (Barcelona). He is also an Accredited Tier Designer (ATD) by Uptime Institute and a member of The Green Grid Association for IT efficiency.

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.

Mr Chris Ow Yong has been involved in Data Centre industry since 2001: from design, development, construction, maintenance, operations and sales of Data Centre infrastructure and supporting services. Some of its professional accreditation include those by Uptime Institute, TIA-942 (Telecommunications Industry Association) and was a founding member of Malaysia's Data Centre Program for Economic Transformation Programme. Presently, he leads the business development and delivery effort for the current company with key accomplishment in developing sseveral key accounts, operation and customer management.

RATES

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

* **Important**: Walk-in delegates will only be admitted on the basis of space availability and with full payment made on site.
* **Fees inclusive of GST**
* **Payment to SEAS & Address:** Please send a crossed cheque to: the 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)		Designation
	HP No	Email	PEB ☐
2	Name (Dr/Mr/Mrs/Ms)		Designation
	HP No	Email	PEB ☐

ORGANIZATION'S DETAILS

Company Name	
Company Address	
Contact Name	Tel
Email	Fax