



**Time** 8.30 am–5.30 pm

**Venue** Singapore  
To be confirmed for each course

**Bringing Theory and Practice Together**

**EMC, the market operator of the National Electricity Market of Singapore (NEMS) has developed a training course that allows course participants to understand electricity markets, with a particular focus on the NEMS and its unique features.**

**Having played a key role in the establishment of the current market, which commenced on 1 January 2003, EMC is in a unique position to bring theory and practice together in understanding electricity market design. EMC combines the expertise and perspectives of engineering, economics and regulatory issues into a course that explores the fundamentals of electricity market theory and practice.**

**Who should attend?**

- Anyone who is interested in taking an in-depth look at how electricity markets work in both theory and practice.
- Executives and managers from the electricity, energy, legal and banking sectors as well as government officials, regulators and consultants.

**Why should you attend?**

- Learn about the typical path of electricity industry reform from a vertically integrated utility to a competitive market.
- Get an overview of some of the key debates surrounding electricity market design.
- Gain an in-depth understanding of how the NEMS operates on a daily basis.
- Understand the key factors underpinning prices for electricity and ancillary services.

**Your course presenters:**

Course presenters will be EMC staff who are directly involved in the operation of the NEMS. You will benefit from the expertise and insight that only practitioners can provide.

## Day 1

### Session 1 – Understanding Electricity

- The physical aspects of generating electricity
- Key features of generation
- Key features of demand
- Key features of transmission
- Role of the system operator

### Session 2 – Electricity Economics, Reform and Regulation

- Basic economic concepts relevant to the electricity industry
- How did the industry structure change over time
- What were the goals of reform
- What are the issues that reform needs to deal with
- What is the typical reform process
- Why is regulation still required and how are different parts of the industry regulated

### Session 3 – The NEMS and its Unique Features

- Brief introduction to the deregulation process leading to the NEMS
- Governance of the NEMS
- Types of participants and their roles
- Overview of transmission and distribution
- Trading in the NEMS
- Ancillary service procurement in the NEMS

## Day 2

### Session 4 – Pricing in Detail

- Overview of the Market Clearing Engine
- Nodal pricing
- Energy, reserve and regulation markets
- Co-optimisation
- Prices observed in the NEMS

### Session 5 – Settlement

- Overview of the settlement process
- Content of invoices and resolution of disagreement
- Default and suspension
- Risk management through the prudential regime

### Session 6 – The Demand Side

- Retail competition
- Benefits of demand side response
- Retail pricing structures for demand response
- Demand bidding (dispatchable load)
- Interruptible load



To register, please fill out this form.

Course Date

Course participant

Salutation  Mr  Mrs  Ms  Dr  Prof.

First Name

Last Name

Job Title

Department

Company

Address

Postcode

E-mail

Telephone

Fax

Invoice details if different from course participant

First Name

Last Name

Job Title

Department

Company

Address

Postcode

E-mail

Telephone

Fax

Dietary requirements if any

How to register Fax this completed registration form to: +65 6779 3030

Or send the scanned form to: trainingprogramme@emcsg.com

Payment method Early-bird  Other (S\$1,850)  MP\* (S\$1,550) \*MP is a NEMS Market Participant or NEMS service provider registered with EMC.

Regular  Other (S\$2,050)  MP\* (S\$1,650)

Fees are subjected to the prevailing GST rate of currently 7%

Enclosed is a cheque in Singapore dollars made out to: Energy Market Company Pte Ltd

Please charge the amount of S\$......to my AMEX/VISA/MasterCard (Circle where appropriate)

Cardholder's name

Card number

(Additional 4 digits for AMEX security code, additional 3 digits for VISA or Mastercard security code)

Signature  Expiry date

Important note

**Attendance will only be confirmed upon receipt of payment.**

**All payments must be received at least 15 working days before the course start date unless other arrangements have been made with EMC.**

**Please note that all bank charges incurred for telegraphic transfers have to be fully borne by the applicant.**

Enquiries Website For enquiries please e-mail trainingprogramme@emcsg.com or contact the training coordinator at +65 6779 3000. Visit www.emcsg.com for more details or to download another copy of this form.