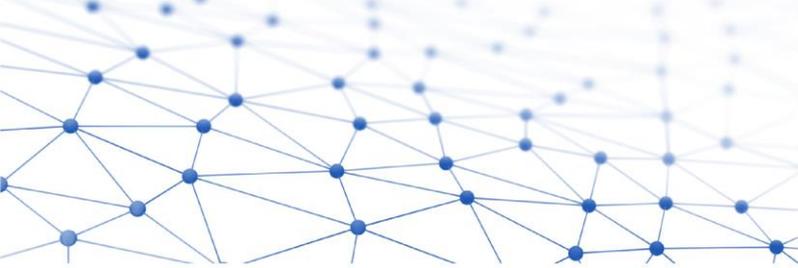


EMC Training Programme

Understanding Electricity Markets

Intensive training course over two days





Time

8:30am – 5:30pm

Venue

Singapore

To be confirmed for each course

Understanding Electricity Markets

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.

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.

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.

EMC Training Programme

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

Why Reform and Regulation is Essential in the Electricity Industry

- 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 Mechanism and Economic Dispatch

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

Session 5

Market Settlement & Credit Risk Management

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

Session 6

How Consumers can Influence Electricity Markets

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

Registration Form

To register, please fill out this form.

| | | | |
|---------------------------|---|---|--|
| | | Course Date | <input type="text"/> |
| Course participant | | Invoice details if different from course participant | |
| Salutation | <input type="checkbox"/> Mr <input type="checkbox"/> Mrs <input type="checkbox"/> Ms <input type="checkbox"/> Dr <input type="checkbox"/> Prof. | First Name | <input type="text"/> |
| First Name | <input type="text"/> | Last Name | <input type="text"/> |
| Last Name | <input type="text"/> | Job Title | <input type="text"/> |
| Job Title | <input type="text"/> | Department | <input type="text"/> |
| Department | <input type="text"/> | Company | <input type="text"/> |
| Company | <input type="text"/> | Address | <input type="text"/> |
| Address | <input type="text"/> | | <input type="text"/> |
| Postcode | <input type="text"/> | Postcode | <input type="text"/> |
| E-mail | <input type="text"/> | E-mail | <input type="text"/> |
| Telephone | <input type="text"/> | Telephone | <input type="text"/> |
| | | Dietary requirements | <input type="text" value="No Pork, No Lard / Vegetarian / etc"/> |

| | | | |
|-----------------|--|---|---|
| How to register | Send the scanned form to: trainingprogramme@emcsg.com | | |
| Payment method | Early-bird^ | <input type="checkbox"/> Other (\$S1,850) | <input type="checkbox"/> MP* (\$S1,550) |
| | Regular | <input type="checkbox"/> Other (\$S2,050) | <input type="checkbox"/> MP* (\$S1,650) |

*MP is a NEMS Market Participant or NEMS service provider registered with EMC.
^Early-bird fee applies to registration and payment received at least 30 working days before the course start date

Fees are subjected to the prevailing GST rate of currently 7%. Fee includes comprehensive course materials, lunches and refreshments on both days

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.

Enrolment conditions Please note that all bank charges incurred for telegraphic transfers have to be fully borne by the applicant.
If after registering, you are unable to attend, another person may replace you. Cancellations must be in writing. A full refund less an administrative fee of \$250 will be given for cancellations received 15 working days before the course start date, a 50% refund for cancellations received between 6 and 14 working days before, and no refund for cancellations thereafter. We may vary the course date, programme, speakers and venue. If we cancel the course, fees will be fully refunded.

For administrative and record purposes, we may require some personal data from you and your consent is deemed to be given when you fill up this form. We assure you that we comply with the Personal Data Protection Act.

By signing where indicated below, I acknowledge that I have read, understand and agree to the terms and conditions stated in the 'Important note' and 'Enrolment conditions' of the form.

Signature Date / / / / /

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.