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## CEO'S MESSAGE

All too quickly, we have completed another successful year of trading in the National Electricity Market of Singapore (NEMS).

We ended the year by welcoming two new market participants and one solar facility in November. In the same month, a rule change pertaining to the issuance of dispatch instructions by the Power System Operator took effect.

In the wholesale electricity market, the supply cushion fell for two consecutive months but remained above 28 percent in November and December. In line with the smaller supply cushion, the Uniform Singapore Energy Price (USEP) rose in both months, and the highest monthly average USEP for the year was registered in December at \$87.44/MWh.

In November, a group of EMC volunteers participated in a mass walk organised by Chaoyang School to commemorate the school's move to its new premises. EMC has been supporting Chaoyang School since

2005, and I am heartened that our modest contribution, financially and in manpower, has contributed to the event's success.

In the last month of the year, we were privileged to host visitors from the United Arab Emirates' Federal Electricity & Water Authority who were in town to learn more about the liberalisation journey of Singapore's power sector. We regularly welcome visitors from Asia and beyond for technical exchanges and to share ideas and experience.

As we move into 2018, I would like to thank all our NEMS stakeholders and other business partners for your support of, and collaboration with, EMC. I look forward to working with you again in the new year, and wish you all the best in the year ahead.

**Toh Seong Wah**  
Chief Executive Officer

## VISITORS TO EMC



EMC team with the delegation from FEWA

On 13 December, EMC hosted a delegation led by H.E. Mohammed Saleh, the Director General of the United Arab Emirates' Federal Electricity & Water Authority (FEWA). FEWA provides electricity and water services to the population in the Northern Emirates.

Singapore is home to Asia's first liberalised electricity market. The FEWA delegation visited EMC to gain a deeper understanding of Singapore's market and liberalisation journey.

# EMC SUPPORTS CHAOYANG SCHOOL'S MOVING WALK 2017

On 17 November, volunteers from EMC joined students and teachers from Chaoyang School in a mass walk from their old school premises at Ang Mo Kio Avenue 9, to their new premises at Ang Mo Kio Street 54. In addition to the mass walk, our volunteers also helped with food distribution in the new school canteen after the walk.

Chaoyang School is a special school for children with mild intellectual disability. It is one of the five special schools under the auspices of the Association for Persons with Special Needs (APSN), and caters to children between the ages of seven and 12.

EMC has been supporting Chaoyang School since 2005 and we are delighted that the school has found a conducive new home to further its work in nurturing its students.



EMC volunteers at the event



Cheque presentation by EMC CEO, Toh Seong Wah to Chaoyang School Principal, Angela Lee



EMC volunteers helping out with food distribution

## NEW ENTRANTS TO THE NEMS

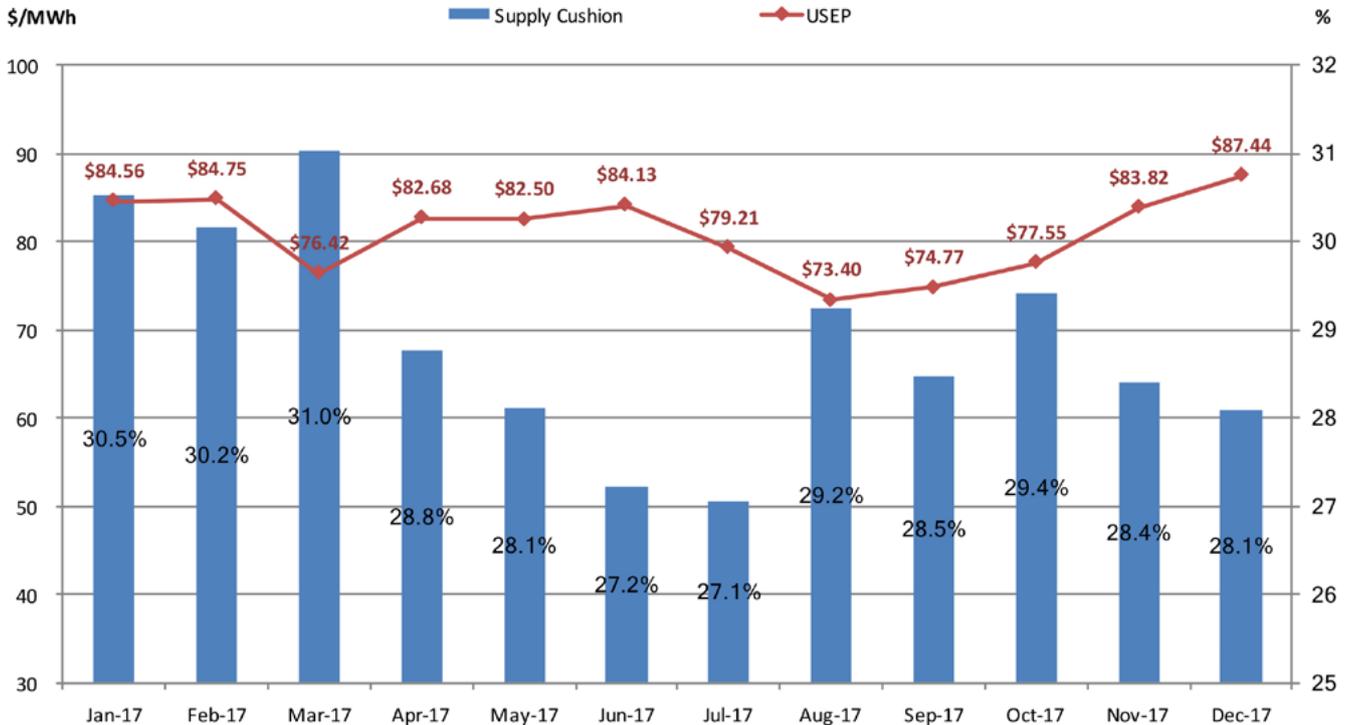
### New Market Participants and Facility Registered in the NEMS

Two new market participants, the Public Utilities Board (PUB) and Sunseap Leasing Beta Pte Ltd, joined the National Electricity Market of Singapore (NEMS) on 9 November as wholesalers.

On the same day, the PUB also registered a 0.80MW Intermittent Generation Source (IGS) which brought the total registered capacity of IGS facilities in the NEMS to 24.34MW.

# MARKET UPDATE

## Overview of USEP and Supply Cushion - Jan to Dec 2017



The supply cushion fell to 28.4 and 28.1 percent in November and December respectively. This led to an increase in the monthly average Uniform Singapore Energy Price (USEP) to \$83.82/MWh in November and \$87.44/MWh in December. December's USEP was the highest monthly average for 2017.

# RULE CHANGE UPDATES

## Review of Sections 9.1.2.2 and 9.1.3 of Chapter 5 of the Market Rules

Under Chapter 5 (Sections 9.1.2.2 and 9.1.3) of the Singapore Electricity Market Rules, the Power System Operator (PSO) was previously authorised to issue dispatch instructions to registered facilities with valid offers or bids under certain exceptional situations. A review was conducted to examine whether the PSO should be constrained to issuing dispatch instructions only to registered facilities with valid offers or bids, especially in situations when it needs to respond promptly to prevent the power system from entering into a high-risk or emergency operating state.

### Chapter 5 (Section 9.1.2.2)

Under the situation when the real-time dispatch schedule (RTDS) is not released by EMC, the System Operation Manual (SOM) stipulates that the PSO will use the latest available forecast schedule for dispatch, which is appropriate as forecast schedules are produced using offers and bids submitted. A rule change was thus made to specify that the PSO shall issue dispatch instructions in accordance with the procedures specified in the SOM. Correspondingly, the requirement to issue dispatch instructions to registered facilities with valid offers or bids has been removed.

### Chapter 5 (Section 9.1.3)

Under the situation when the PSO issues dispatch instructions to prevent the power system from entering into a high-risk or emergency operating state, the PSO has to respond promptly and should not be encumbered by the need to check for the presence of offers or bids prior to making dispatch decisions in real time. A rule change was thus made to allow the PSO to issue dispatch instructions to any registered facility, without having to consider the presence of valid offers or bids.

The rule changes took effect on 14 November 2017.

# USER FORUMS

## Market Information Sharing Forum (MISF)

The Market Operations team hosted the 96<sup>th</sup> session of the bi-monthly MISF on 9 November. During the forum, the following topics were shared with the attendees:

- Market performance and key highlights for September and October 2017;
- System enhancements and projects; and
- Feature topics:
  - » New feature in the Weekly and Monthly Trading Reports;
  - » Updates on Risk Exposure Report;
  - » Enhancements to the regulatory framework for Intermittent Generation Sources (IGS); and
  - » Simulation of Demand Response (DR) bid for price spike in Period 22 on 26 October.

We would like to thank all participants for their continuous support and strong interest in the MISF. The next MISF is scheduled for 11 January 2018 with a lunch buffet provided. Market participants who are interested in presenting at future MISFs are encouraged to come forward.

## Market Systems User Group (MSUG)

The bi-monthly MSUG forum was held on 21 December. EMC IT updated attendees on the following topics:

- Overview of NEMS systems availability year-to-date FY17/18;
- Overview of NEMS systems service desk calls received between November 2016 and October 2017;
- Overview of change releases deployed between November 2016 and October 2017;
- Major IT incidents and actions taken to resolve them;
- Upcoming planned NEMS maintenance;
- Upcoming planned Disaster Recovery Exercise (Switchover);
- New NEMS systems user account application form;
- Status updates on IT infrastructure projects:
  - » Data Warehouse Server Refresh; and
  - » Server Hardware Application Refresh Project (SHARP).
- Status updates on application projects:
  - » Market Clearing Engine (MCE) generated advisory – SMS notifications;
  - » Monthly Energy Uplift Charge (MEUC) system changes for Fixed Regulation Settlement Debit (FFSD);
  - » Migration of Offer Management System (OMS) to the Submission Management System;
  - » Publication of Risk Exposure Report; and
  - » Net Allocated Regulation Price (AFP) for residential consumers embedded with Intermittent Generation Sources (IGS).

The next MSUG forum is tentatively scheduled for Thursday, 22 February 2018.

## EMC TRAINING PROGRAMME NEXT COURSE ON 8 AND 9 FEBRUARY 2018

EMC will be holding the next run of its two-day course *Understanding Electricity Markets* on 8 and 9 February 2018. Our staff will be conducting seven sessions covering the following topics:

- Understanding Electricity
- Why Reform and Regulation are Essential in the Electricity Industry
- The National Electricity Market of Singapore and its Unique Features
- Introduction to SGX Electricity Futures Market
- Pricing in Detail
- Market Settlement and Credit Risk Management
- How Consumers can Influence Electricity Markets
- The course dates for 2018 are as follows:
  - » 8-9 February
  - » 17-18 May
  - » 23-24 August

We advise you to book early to secure your place in the course date of your choice, and benefit from our early-bird discount.

Further details on the programme and on how to register are on our website, [www.emcsg.com](http://www.emcsg.com). For enquiries, please e-mail [trainingprogramme@emcsg.com](mailto:trainingprogramme@emcsg.com) or contact Jan Lee at +65 6779 3000.

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Please send your comments, feedback or questions via e-mail to [emc.newsletter@emcsg.com](mailto:emc.newsletter@emcsg.com) or via fax to +65 6779 3030. Thank you in advance for your time and effort.

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