CEO’s Message

On 27 September, we welcomed more than 130 guests from Singapore’s electricity sector at the annual EMC Golf Day. I am glad the event proceeded smoothly despite weeks of hazy conditions in the lead up to it. I hope all our guests had a great time networking at the event, and thank all sponsors for their generous support once again.

Earlier this year, we announced the setting up of a high-level Market Advisory Panel (MAP) to guide the strategic development of the National Electricity Market of Singapore (NEMS). The support from the industry’s leaders, as well as the enthusiasm of the two working groups supporting the Panel, have been very encouraging. We will continue to partner the industry to put forth recommendations that will benefit the NEMS in the long run.

EMC is also pleased to contribute towards efforts to nurture talents for Singapore’s energy sector. We participated in the production of an educational video for students which explains energy economics through simple analogies and graphics.

I hope initiatives like this will heighten students’ awareness of and pique their interest in a sector which powers our daily lives.

In early October, we conducted a five-day training course for a Vietnamese delegation to share Singapore’s experience in restructuring our power sector. We wish the delegates all the best as Vietnam embarks on its own journey to reform its power market.

In the wholesale electricity market, the Uniform Singapore Energy Price (USEP) remained below $100/MWh in September and October. Five more intermittent generation source (IGS) facilities were registered, bringing the capacity of such facilities to one percent of the total registered generation capacity in the NEMS.

Finally, I am pleased that our colleagues continue to set aside time to participate in events organised by our adopted charities. I hope that the students and staff of Chaoyang School had as much fun as our volunteers who helped out at the school’s recent Sports Day.

Toh Seong Wah
Chief Executive Officer
The 17th EMC Golf Day was held on Friday, 27 September at the Sentosa Golf Club. The 18-hole golf challenge was played at the Serapong course this year. Despite hazy conditions in the few weeks leading up to the event, we had good weather on the day of this annual networking event. This year, we hosted more than 130 guests from Singapore’s electricity industry at the EMC Golf Day.

The highlight of the golf challenge was the Hole-in-One prize – the recently launched electric car, Nissan Leaf. Although there was no winner for this prize, many golfers went home with attractive prizes in the team and individual categories as well as for the novelty holes.

Activities like the golf clinic for beginner golfers and the neck-and-shoulder massage were back by popular demand. They continued to be well-received by our guests who joined us earlier in the day.

We welcomed more industry friends during the cocktail and dinner in the evening, which saw 25 guests going home with lucky draw prizes ranging from electronic gadgets and home appliances, to gift cards and shopping vouchers.

We are extremely grateful for the strong support that we continue to receive for the EMC Golf Day. We would like to thank both returning and new industry sponsors – including the market participants of the National Electricity Market of Singapore (NEMS) – for their generous contributions which were integral to the event’s success.

Finally, a big thank you to all our guests for attending the event. We look forward to welcoming you again to the EMC Golf Day next year.
An Update on the Market Advisory Panel

Earlier this year, we shared that EMC was establishing a Market Advisory Panel (MAP) to provide thought leadership and drive discussions on broad, strategic issues that would affect the long-term sustainability and development of the National Electricity Market of Singapore (NEMS).

We are very heartened by the industry’s support of the MAP. This is apparent from the seniority of the members who are represented on the Panel, including Chief Executive Officers, Managing Directors and General Managers. We are also very privileged to have on board three renowned energy experts – Phillip Harris, consultant and former President/CEO of PJM Interconnection, Ben Skinner, General Manager for Policy and Research of the Australian Energy Council, and Stephen Woodhouse, Director of Pöyry Management Consulting – who have shared invaluable perspectives from their experiences in established electricity markets in the United States of America (USA), Australia and the United Kingdom.

The MAP is supported by two industry working groups (IWGs) to look into the priority areas identified for the NEMS – resource adequacy and the integration of emerging technologies. The MAP and IWG meetings that have been held thus far have seen lively discussions and robust debates around these issues, including deliberations on potential policy and implementation challenges based on Australia and the USA’s experiences.

We thank all participants for their time and active participation which have been instrumental in the success of these meetings. We look forward to building on the work done so far, and sharing the industry’s recommendations with the Energy Market Authority when they are ready.

EMC Supports Educational Video on Singapore’s Energy Sector

As part of ongoing efforts to nurture a pipeline of talent for Singapore’s energy sector, the Energy Market Authority and the Ministry of Education are jointly developing a series of energy-themed educational videos for youths in Singapore.

EMC is pleased to have participated in the latest video which explains energy economics through its application in Singapore’s electricity market. The video highlights how the market forces of demand and supply work in our liberalised wholesale and retail electricity markets, resulting in competitive prices and increased choices for consumers.

Through the video, the students will also have a better understanding of the key stakeholders in the electricity sector and their roles, including EMC which provides the platform for the trading of electricity in the wholesale market.

The video was launched by Dr Tan Wu Meng, Senior Parliamentary Secretary for Ministry of Trade and Industry and Foreign Affairs, at Youth@SIEW during the Singapore International Energy Week (SIEW) 2019. Visit EMC’s website to watch the video.
Market Update
Overview of USEP and Supply Cushion – Jan to Oct 2019

The daily average Uniform Singapore Energy Price (USEP) ranged between $66.37/MWh and $142.84/MWh in September, and between $66.52/MWh and $190.26/MWh in October. The monthly average USEP was $95.97/MWh in September but decreased 1.6 percent to $94.39/MWh in October.

Compared to August, September’s USEP increased 2.9 percent due to a lower supply cushion. September’s supply cushion fell 2.0 percentage points as a result of a 0.6 percent increase in demand and a 2.1 percent drop in supply. Fuel oil price in September was observed to be 20.0 percent higher than in August.

In October, there was a 3.2 percent decrease in demand and an additional 5.1 percent drop in supply. Despite a further decline of 1.5 percentage points in the supply cushion, the USEP fell to $94.39/MWh due to the weaker demand. October’s fuel oil price was observed to be 20.2 percent lower than September’s.

New Entrants to the NEMS

Five new facilities registered in the NEMS

One market participant registered five new facilities in the National Electricity Market of Singapore (NEMS) in October:

<table>
<thead>
<tr>
<th>Market Participant</th>
<th>Facility Type</th>
<th>Capacity (MW)</th>
<th>Date Registered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sembcorp Solar</td>
<td>Intermittent Generation Source (IGS)</td>
<td>0.216</td>
<td>3 October</td>
</tr>
<tr>
<td>Singapore</td>
<td></td>
<td>0.156</td>
<td>22 October</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.720</td>
<td>25 October</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.020</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.240</td>
<td>30 October</td>
</tr>
</tbody>
</table>

With these additions, coupled with capacity revisions and de-registrations of other generation facilities, the total registered capacity of IGS facilities stands at 125.967MW, or 1.0 percent of the total registered generation capacity in the NEMS.
EMC Conducts Five-Day Customised Training for Vietnamese Delegation

In early October, EMC conducted a five-day customised training programme in Singapore for 20 delegates from the Vietnam Electricity Corporation (EVN) and its subsidiaries, as well as the Electricity Regulatory Authority of Vietnam (ERAV).

During the training, the delegates learned about Singapore’s power market reform journey and the unique features of Singapore’s wholesale electricity market. There were also discussions on operational intricacies like IT support and credit risk management, amongst other aspects. As part of the training, the group also visited the Power System Operator to understand its role and operations in Singapore’s power system.

Vietnam is in the process of reforming its power market. We hope that the delegates benefitted from learning about Singapore’s experience, and we look forward to more collaboration opportunities with the EVN and the ERAV in future.

Chaoyang School’s Sports Day 2019

EMC is pleased to support Chaoyang School’s Sports Day once again this year. The event was held on 3 October at the Yio Chu Kang Indoor Stadium.

Close to 300 people participated in the Sports Day 2019, including students and their families, as well as the staff and other invited guests of Chaoyang School. The Ministry of Education’s Director for Special Education, Bernard Chew, was the Guest of Honour at the event.

This year’s Sports Day was organised with a green theme, in alignment with the school’s “Go Green” initiative. Chaoyang School made a deliberate effort to minimise the use of plastic bottles by encouraging all students to bring their own water bottles that day.

EMC has been supporting Chaoyang School since 2005. Apart from monetary contributions to cover the costs of organising events like the Sports Day, our staff volunteers also assist teachers in the running of the events.
User Forums
Market Information Sharing Forum (MISF)

The Market Operations team hosted the 107th session of the bi-monthly MISF on 12 September. During the forum, the following topics were shared with the attendees:

- Market performance and key highlights in July and August 2019;
- System enhancements and projects; and
- Feature topics:
  - Credit support requirement review;
  - Recap on load forecast treatment methodology; and
  - Server Hardware Application Refresh Project (SHARP).

We would like to thank all participants for their continuous support and strong interest in the MISF. The next MISF is scheduled on Thursday, 21 November. 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 17 October. EMC’s Technology team updated attendees on the following topics:

- Overview of NEMS systems availability year-to-date for FY2019/2020;
- Overview of NEMS systems service desk calls received between October 2018 and September 2019;
- Overview of change releases deployed between October 2018 and September 2019;
- NEMS systems incidents;
- Planned NEMS maintenance;
- Disaster Recovery Preparedness Exercise;
- Status updates on Technology (infrastructure) projects:
  - Network technology refresh; and
  - Tier 3 network segregation.
- Status updates on Technology (applications) projects:
  - Application Programming Interface (API) Gateway Management Solution;
  - Risk exposure enhancement;
  - Webservices for additional data release;
  - Review of credit support requirements to align with Retailer of Last Resort framework; and
  - Review of default levy arrangements.

The next MSUG forum is tentatively scheduled for Thursday, 20 December.

EMC Training Programme
Next course on 27 and 28 February 2020

EMC will be holding the next run of its two-day course Understanding Electricity Markets on 27 and 28 February 2020. 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

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. For enquiries, please e-mail trainingprogramme@emcsg.com or contact Jan Lee at +65 6779 3000.