

**DETERMINATION OF THE MARKET SURVEILLANCE AND COMPLIANCE PANEL
MSCP/2005/D6**

Market Surveillance and Compliance Panel ("MSCP")

Mr Joseph Grimberg, Chair
Professor Lim Chin
Mr Lee Keh Sai
Mr TPB Menon

Date of Determination

11 April 2005

Party

Energy Market Company Pte Ltd ("EMC")

Subject

Failure to determine and release real-time dispatch schedule and publish information for period 4 on 30 March 2004

Applicable Rule(s) in the Singapore Electricity Market Rules

1. Section 9.2.1 of Chapter 6 provides that:

"The EMC shall, prior to the commencement of each dispatch period and in accordance with the market operations timetable, use the market clearing engine to determine for that period:

- 9.2.1.1 a real-time dispatch schedule, containing schedules of energy, reserve and regulation for registered facilities, to be released to the PSO, which in accordance with section 9.1.2 of Chapter 5 shall be deemed to constitute the dispatch instructions issued by the PSO to the applicable dispatch coordinators unless and until further dispatch instructions are issued by the PSO to a given dispatch coordinator pursuant to section 9.1.3 of Chapter 5; and
- 9.2.1.2 a real-time pricing schedule determined by the market clearing engine in accordance with section D.24 of Appendix 6D, including:
 - (a) energy prices for each market network node;
 - (b) the uniform Singapore electricity price;
 - (c) reserve prices for each reserve class and for each reserve provider group; and
 - (d) regulation prices.

The market operations timetable in Appendix 6A of Chapter 6 provides that the EMC must begin computing a real-time dispatch schedule using the market clearing engine 5 minutes prior to the start of the dispatch period.

The market operations timetable also provides that the EMC must release the real-time dispatch schedule to the PSO prior to 30 seconds before the commencement of the dispatch period.

2. Section 9.2.3 of Chapter 6 provides that:

“The EMC shall, in accordance with the market operations timetable, release to the dispatch coordinator for each registered facility a real-time dispatch schedule comprising that portion of the real-time dispatch schedule referred to in section 9.2.1.1 that describes the quantities of energy, reserve by reserve class and regulation scheduled in respect of that registered facility.

The market operations timetable in Appendix 6A of Chapter 6 also provides that the EMC must release the real-time dispatch schedule to market participants prior to 30 seconds before the commencement of the dispatch period.

3. Section 9.2.4 of Chapter 6 provides that:

“The EMC shall, in accordance with the market operations timetable, publish the following information as it pertains to each dispatch period:

- 9.2.4.1.1 total load;
- 9.2.4.1.2 total transmission losses;
- 9.2.4.1.3 total reserve requirements by reserve class;
- 9.2.4.1.4 total regulation requirements;
- 9.2.4.1.5 energy prices associated with each market network node at which a generation registered facility or generation settlement facility is located;
- 9.2.4.1.6 the uniform Singapore energy price;
- 9.2.4.1.7 reserve prices for each reserve class and reserve provider group;
- 9.2.4.1.8 regulation prices;
- 9.2.4.1.9 any system energy shortfalls reported by the market clearing engine;
- 9.2.4.1.10 any system reserve shortfalls, by reserve class, reported by the market clearing engine;
- 9.2.4.1.11 any system regulation shortfalls reported by the market clearing engine; and
- 9.2.4.1.12 a list of security constraints and generation fixing constraints applied.”

The market operations timetable in Appendix 6A of Chapter 6 provides that the EMC must publish the market information set out in section 9.2.4 of Chapter 6 prior to 30 seconds before the commencement of the dispatch period.

Facts and Circumstances

4. According to the EMC, the real-time dispatch schedule for period 4 on 30 March 2004 was not determined on time due to a hardware problem in the EMC IT system. The EMC had decided to replace the hardware during an 18 minute window period where no dispatch processing would take place. The EMC informed market participants about the hardware replacement exercise 3 hours before the exercise took place.
5. After the replacement, the EMC took slightly longer than expected to restart the server. This resulted in a delay in determining the real-time dispatch schedule for period 4.
6. This incident did not have a significant impact on the wholesale electricity markets.

Determination

7. On 25 November 2004, the MCSP issued a letter informing the EMC that it considered that the EMC had prima facie breached sections 9.2.1, 9.2.3 and 9.2.4 of Chapter 6 of the Singapore Electricity Market Rules (the "market rules") and invited the EMC to make written representations. No written representations were received by the deadline stipulated.
8. The MSCP determined on the basis of the facts referred to above that the EMC breached sections 9.2.1, 9.2.3 and 9.2.4 of Chapter 6 of the market rules.
9. However, the breaches were self-reported, rectified quickly and without significant impact on the markets.
10. Therefore, the MSCP determined that the appropriate enforcement action to be taken was to issue a letter of non-compliance to the EMC and to direct the EMC to pay costs, fixed at \$1,000.



Joseph Grimberg
Chair
Market Surveillance and Compliance Panel