Market Performance

The Uniform Singapore Energy Price (USEP) rose 11.35 percent from $227.39/MWh in Q1 2012 to $253.19/MWh in Q2 2012. In line with the increase in the USEP, the Wholesale Electricity Price (WEP) also increased 11.12 percent to $254.10/MWh in Q2 2012. Meanwhile, the Vesting Contract Hedge price (VCHP) rose 6.12 percent from $211.52/MWh in Q1 2012 to $224.48/MWh in Q2 2012.

Prices for ancillary services increased across the board except for Regulation price, which declined slightly by 1.27 percent to $91.65/MWh in Q2 2012. The High Sulphur Fuel Oil (HSFO) spot price eased 9.75 percent from US$117.55/barrel to US$106.09/barrel.

Both the forecast demand and metered energy reached record high peaks of 6,356MW and 6,329MW respectively in this quarter. In the meantime, the supply cushion which measures supply adequacy has weakened by 1 percentage point from 24.66 percent in Q1 2012 to 23.66 percent in Q2 2012 as a result of forecast demand outpacing supply across the quarter.

The capacity ratio (scheduled output over maximum generation capacity) for CCGT fell by about 1.05 percent in Q2 2012 as a result of the entry of two new CCGT facilities which drove up maximum generation capacity.

Anticipated outages (MWh) decreased by about 21 percent in Q2 2012. Meanwhile, the quantity of forced outages increased 60.84 percent in the same quarter.

In Q2 2012, the MSCP made two rule breach determinations pertaining to:

i) Failure by a market participant to comply with dispatch instructions and to reflect its true plant capabilities in its offers on 15 August 2011; and

ii) Failure by EMC to determine, release and publish the real-time dispatch schedule for period 30 on 2 December 2011.

* The category ‘Unplanned Outages’ was removed from the System Operation Manual with effect from 1 June 2012. Future editions of the Market Watch will reflect the change.
Supply Indicators

**Chart 1: Capacity Ratio of Generation Plants**

- **Combine Cycle Plant**: 2.06%  
- **Gas Turbine**: 25.75%  
- **Others**: 9.92%  
- **Steam Turbine**: 25.93%

**Chart 2: Relationship between USEP and Energy Supply Cushion - Q2 2012**

**Chart 3: Comparison of Average Market Share by Generation Company Q2 2012**

- **Based on Metered Energy Quantities**
  - G1: 25.75%
  - G2: 2.06%
  - G3: 9.92%
  - G4: 8.63%
  - G5: 0.81%

- **Based on Maximum Generation Capacity**
  - G1: 25.93%
  - G2: 26.90%
  - G3: 28.76%
  - G4: 7.28%

**Chart 4: Comparison of Average Market Share by Generation Type Q2 2012**

- **Based on Metered Energy Quantities**
  - Combine Cycle Plant: 84.31%
  - Gas Turbine: 0.06%
  - Others: 1.23%
  - Steam Turbine: 14.40%

- **Based on Maximum Generation Capacity**
  - Combine Cycle Plant: 64.88%
  - Gas Turbine: 2.85%
  - Others: 2.38%
  - Steam Turbine: 29.90%
**Demand Indicators**

**Chart 5: Monthly Load Forecast Variation**
- Monthly Variation (STS vs Real Time)
- Monthly Variation (PDS vs Real Time)

**Chart 6: Variation in Real Time Load Forecast & Metered Energy Quantities**
- Quarterly Variation in Load Forecast and Metered Energy Quantities

**Energy Prices**

**Chart 7: WEP vs Vesting Contract Hedge Price (VCHP)**
- VCHP
- Daily Volume-weighted Average WEP ($/MWh)

**Chart 8: Comparison of Metered Energy Quantities**
- Average Metered Energy Quantities

**Chart 9: Percentage of Hours when WEP Falls Into a Particular Price Range**
- Q2, 2011
- Q1, 2012
- Q2, 2012

**Chart 10: Percentage of Metered Energy Quantities when WEP Falls Into a Particular Price Range**
- Q2, 2011
- Q1, 2012
- Q2, 2012

**Chart 11: Correlation between WEP & Metered Energy Quantities**
- R²
- Square of Correlation Coefficient
- Number of Days with r>0.5

**Chart 12: WEP vs Fuel Oil Prices (HSFO)**
- Q2, 2011
- Q1, 2012
- Q2, 2012

The Market Surveillance and Compliance Panel is comprised of the following persons:

- Thean Lip Ping, Chair
- Lee Keh Sai
- Professor Lim Chin
- TPB Menon
- Philip Chua

It is supported by the Market Assessment Unit of Energy Market Company.