

Electricity Pricing Event Report – Saturday 16 July 2016*

Market Outcomes: Spot price in South Australia reached \$1,992.34/MWh and \$1,910.47/MWh for trading intervals (TIs) ending 1800 hrs and 1900 hrs.

Energy prices in other NEM regions and FCAS prices in all regions were not affected by this event.

Detailed Analysis: The 5-Minute dispatch price in South Australia reached \$10,578.87/MWh and \$10,669.99/MWh for dispatch intervals (DIs) ending 1800 hrs and 1840 hrs. These high prices can be mainly attributed to a planned network outage limiting Heywood interconnector flows. Other contributing factors include generator outages, low wind generation and a steep supply curve, during the evening peak demand period.

- Planned outage of the Tailem Bend – South East No.2 275kV line was scheduled from 1000 hrs on 16 July 2016 until 2049 hrs on 22 July 2016. This planned outage reduced the interconnector capacity on the Heywood Interconnector. Outage Constraint set S-TBSE_1 was invoked during this period.
- For DIs ending 1800 hrs and 1840 hrs, the target flow towards South Australia on the Heywood interconnector was limited to 2 MW and 0 MW, respectively, by the transient stability constraint equation V::S_SETB_TBSE_1. This constraint equation prevents transient instability across the VIC-SA cutset, for the loss of one South East – Tailem Bend 275kV line, during the outage of the parallel line.
- For the same DIs, the target flow towards South Australia on the Murraylink was limited to 208 MW and 197 MW, respectively, by the thermal constraint equation V^SML_NSWRB_2. This constraint equation prevents prevents voltage collapse in Victoria for loss of the Darlington Point – Buronga (X5) 220 kV line.
- Several South Australian generating units were unavailable during the day, including Torrens Island B unit 4 (210 MW) and Torrens Island A unit 1 (120 MW). Pelican Point CCGT (510 MW) had 240 MW available.
- Wind generation was low in South Australia, at 133 MW and 171 MW for TIs ending 1800 hrs and 1900 hrs, respectively.
- For the high priced DIs, generation capacity was offered either less than \$410/MWh or above \$10,578/MWh, resulting in a steep supply curve in South Australia.

For the DIs subsequent to the high priced DIs, the 5-minute price in South Australia reduced to \$299.99/MWh or below, when:

- Up to 716 MW of generation capacity was rebid from bands priced at \$79.99/MWh or above to the Market Floor Price (MFP) of -\$1,000/MWh.

** A summary was prepared as the maximum daily spot price was between \$500/MWh and \$2,000/MWh.*