

Electricity Pricing Event Report – Monday 18 July 2016*

Market Outcomes: Spot price in South Australia reached \$1,930.20/MWh for trading interval (TIs) ending 1700 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 \$578.81/MWh and \$10,569.00/MWh for dispatch intervals (DIs) ending 1640hrs and 1645 hrs. These high prices can be mainly attributed to a planned network outage limiting Heywood interconnector flows, generator outages, low wind, a steep supply curve and rebidding.

- 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. Constraint set S-TBSE_1 was invoked for the duration of the outage.
- For DIs ending 1640 hrs and 1645 hrs, the transient stability constraint equation V::S_SETB_TBSE_1 forced the target flow on the Heywood interconnector to flow towards Victoria at 59 MW and 63 MW, respectively. This constraint equation prevents the 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 220 MW by the upper transfer limit constraint equation VSML_220.
- 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 254 MW and 243 MW for DIs ending 1640 hrs and 1645 hrs, respectively.
- Between DIs ending 1635 hrs and 1645 hrs, demand increased by 47 MW and reached 1,538 MW for DI ending 1645 hrs.
- For the high priced DIs, only 15 MW of generation capacity was offered between \$300.00/MWh and \$10,569.00/MWh, resulting in a steep supply curve in South Australia.
- For DI ending 1840 hrs, Energy Australia rebid 35 MW from \$578.81/MWh to \$13,998.99/MWh.

The 5-minute price in South Australia reduced to \$71.41/MWh for DI ending 1650 hrs, when:

- 524 MW of generation capacity was rebid from bands priced at \$94.99/MWh to the Market Floor Price (MFP) of -\$1,000/MWh.
- Demand decreased by approximately 24 MW.

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