

## Electricity Pricing Event Report – Saturday 31 December 2016

**Market Outcomes:** Spot price in Queensland (QLD) reached \$2,342.24/MWh for trading interval (TI) ending 1400 hrs on 31 December 2016.

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

**Detailed Analysis:** The 5-Minute dispatch Energy price in Queensland reached the Market Price Cap (MPC) of \$14,000/MWh at dispatch interval (DI) ending 1335 hrs. This high price can mainly be attributed to rebidding of cheaper priced capacity and an increase in demand while interconnector support was constrained.

Demand in QLD was high, reaching 7,540 MW during the high priced TI. This high demand coincided with high temperatures in QLD, with a daily peak of 35.3 degrees (Archerfield Airport).

Between DI ending 1330 hrs and 1335 hrs demand in Queensland increased by 55 MW and the sum of the flow on the interconnectors towards Queensland increased by 10 MW to reach 224 MW. At DI ending 1335 hrs, flow on the QNI and Terranora interconnector was limited by the constraint equations  $N^{Q\_NIL\_B1}$  and  $N>LSDU\_LSDU$ , respectively. The  $N^{Q\_NIL\_B1}$  system normal constraint equation avoids voltage collapse for the loss of Kogan Creek PS. The thermal constraint equation  $N>LSDU\_LSDU$  avoids the overload of the Lismore No. 9U7/L 132 kV line for the trip of the parallel Lismore - Dunoon No. 9U6/L 132 kV line.

For DI ending 1335 hrs, Stanwell shifted a total of 128 MW generation capacity from bands priced at \$75.07/MWh or below to the MPC. Millmerran unit 1 withdrew 5 MW of capacity from band priced at \$9.50/MWh with the reason "13:28 P: CONDENSATE POLISHER INLET TEMPERATURE". Lower priced capacity was available but required more than one DI to synchronise (Roma GT units 7 & 8) or was limited by ramp rates (Gladstone unit 3, 5 & 6, Oakey GT unit 1 & 2).

The 5-minute price reduced to \$9.50/MWh for DI ending 1340 hrs when demand in the region reduced by 268 MW and 745 MW was rebid from bands priced at \$13,651/MWh or above to the Market Floor Price (MFP) at -\$1,000/MWh.

The high 30-minute spot price for Queensland was not forecast in the pre-dispatch schedules as it was due to an unforeseen spike in demand.