

Electricity Pricing Event Report - Tuesday 24 January 2017

Market Outcome: Spot price in Queensland (QLD) reached \$2,339.11/MWh for trading interval (TI) ending 1700 hrs on 24 January 2017.

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 \$13,800/MWh at dispatch interval (DI) ending 1635 hrs. This high price can mainly be attributed to a tight supply-demand situation, whilst interconnector support was constrained.

Demand in QLD was high, reaching 8,348 MW during the high priced TI. This high demand coincided with high temperatures in QLD, with a daily peak of 32.4 degrees (Archerfield Airport).

Between DI ending 1630 hrs and 1635 hrs, demand in QLD increased by 37 MW and the sum of the target flow on the interconnectors towards QLD decreased by 45 MW. At DI ending 1635 hrs, flow on the QNI and Terranora interconnector were limited by the constraint equations N>>N-NIL__3_OPENED and N>N-CHKK_TE_1, respectively. The N>>N-NIL__3_OPENED system normal constraint equation avoids overload of the Liddell - Muswellbrook No.83 330 kV line for the trip of the Liddell - Tamworth No.84 330 kV line. The N>N-CHKK_TE_1 thermal constraint equation avoids overload of the Armidale - Koolkhan No.966 132 kV line for the trip of the Coffs Harbour - Lismore No.89 330 kV line during the outage of the Coffs Harbour - Koolkhan No.96H 132 kV line.

For DI ending 1635 hrs, low priced generation was available but required more than one DI to synchronise (Braemar unit 5), was limited by ramp rates (Milmerran PS unit 1), was limited by its Fast Start Profile (Mt Stuart unit 2), or was constrained (Oakey GT unit 1 & 2). The Q>NIL_MRTA_B thermal constraint equation limits the generation from Oakey PS based on the rating of the Middle Ridge - Tangkam No.732 110 kV line.

The 5-minute price reduced to \$63.17 for DI ending 1640 hrs when demand in the region reduced by 133 MW. Callide Power and CS Energy rebid 260 MW of generation capacity from the Market Price Ceiling (MPC) of \$14,000/MWh to the Market Floor Price (MFP) of -\$1,000/MWh.

The high 30-minute spot price for Queensland was forecast in the pre-dispatch schedules.