

Electricity Pricing Event Report - Friday 3 February 2017

Market Outcomes: Spot price in Queensland (QLD) reached \$2,389.49/MWh for trading interval (TI) ending 1700 hrs on 3 February 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 \$13,399.95/MWh at dispatch interval (DI) ending 1645 hrs. This high price can mainly be attributed to rebidding of generation capacity, during a period of high demand, while interconnector support was constrained.

Demand in QLD was high, reaching 8,701 MW during the high priced TI. This high demand coincided with high temperatures in QLD, with a daily peak of 32.8 degrees (Archerfield Airport).

Between DI ending 1640 hrs and 1645 hrs, flow on the QNI towards QLD decreased by 11 MW to reach 217 MW, whilst flow on the Terranora interconnector remained unchanged at 84 MW towards NSW. At DI ending 1645 hrs, flow on the QNI and Terranora interconnectors 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 - Koolkan No.96H 132 kV line.

For DI ending 1645 hrs, Callide Power and InterGen rebid 70 MW of generation capacity from the Market Floor Price (MFP) of -\$1,000/MWh to bands priced at \$13,999.99/MWh or the Market Price Cap (MPC) of \$14,000/MWh. For the same DI, Mt Stuart PS unit 3 withdrew 5 MW of generation capacity priced at \$311/MWh with the reason "1635P CHANGE IN AVAIL - AMBIENT CONDITIONS SL". Lower priced generation was available but was limited by their Fast Start Profile (Barcaldine) or was limited by ramp rates (Yabulu unit 1 & 2).

The 5-minute price reduced to \$103.11/MWh for DI ending 1650 hrs when demand in the region reduced by 130 MW. Callide Power and Stanwell rebid 311 MW generation capacity from bands priced at \$13,899.95/MWh and above to the MFP.

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