

Electricity Pricing Event Report – Monday 15 February 2016

Market Outcomes: Queensland spot price was \$2,537.78/MWh for trading interval (TI) ending 1730 hrs.

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

Detailed Analysis: 5-Minute dispatch price in Queensland reached \$12,888.65/MWh for dispatch interval (DI) ending 1730 hrs. The high price can be attributed to high demand and rebidding of generation capacity.

Queensland demand peaked at 8,419 MW for TI ending 1700 hrs. The maximum temperature in Brisbane was 34 degrees.

Between DIs ending 1705 hrs and 1730 hrs, Stanwell, CS Energy and Millmerran shifted or rebid 520 MW of generation capacity from bands priced at less than \$300/MWh to bands priced above \$13,799/MWh. Cheaper priced generation was available but limited due to ramp rates (Stanwell PS unit 1, 2 and 3) or required more than one DI to synchronise (Townsville GT unit 1) or FCAS profiles (Gladstone PS unit 1, 3 and 6).

During the high priced interval, the target flow on the QNI interconnector was limited up to 138 MW towards Queensland by the system normal thermal constraint equation, N>>N-NIL__3_OPENED. This constraint equation prevents the overload of Liddell – Muswellbrook 330 kV transmission line for the loss of the Liddell – Tamworth 330 kV transmission line. The target flow on the Terranora interconnector was limited up to 33 MW towards Queensland by the outage constraint equation, N>N-BAMB_132_OPEN_A. This constraint equation prevents the overload of a Lismore – Dunoon 132 kV transmission line for the trip of the parallel Lismore – Dunoon line during the outage of a Ballina – Mullumbimby 132 kV transmission line.

The 5-minute price reduced to \$35.94/MWh in the subsequent DI to the high priced interval when demand in Queensland reduced by 294 MW and 520 MW of generation capacity shifted from bands priced above \$13,799/MWh to bands priced at less than \$300/MWh.

The high 30-minute spot price for Queensland was not forecast in the predispatch schedules as it was due to rebidding of generation capacity.