

## Electricity Pricing Event Report – Monday 29 February 2016

**Market Outcomes:** Spot prices in Queensland reached \$2,342.03/MWh and \$2,122.26/MWh for trading intervals (TIs) ending 0700 hrs and 1900 hrs, respectively.

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 \$13,788.88/MWh for the dispatch interval (DI) ending 0650 hrs and reached \$12,499.10/MWh for the DI ending 1840 hrs. These high prices can be attributed to rebidding of generation capacity during a period of high demand.

Queensland demand peaked at 8,322 MW for TI ending 1700 hrs. The maximum temperature in Brisbane was 32.5°C.

Between DIs ending 0635 hrs and 0650 hrs, CS Energy, Stanwell and Millmerran shifted or rebid 390 MW of generation capacity from bands priced below \$25.00/MWh to bands priced at or above \$13,788.87/MWh.

For the DI ending 1840 hrs Stanwell rebid 120 MW of generation capacity from bands priced below \$49.00/MWh to the Market Price Cap (MPC) of \$13,800/MWh.

During the high priced intervals, the target flow on the QNI interconnector was limited up to 178 MW towards Queensland by the voltage stability constraint equation  $N^{Q\_NIL\_B1}$ . The  $N^{Q\_NIL\_B1}$  constraint equation prevents voltage collapse in New South Wales for the loss of Kogan Creek PS. The target flow on the Terranora interconnector was limited up to 18 MW towards Queensland by the voltage stability constraint equation  $N^{Q\_NIL\_B1}$  and the outage constraint equation  $N^{N-BAMB\_132\_OPEN\_A}$ . The  $N^{N-BAMB\_132\_OPEN\_A}$  constraint equation prevents the overload of a Lismore – Dunoon 132 kV transmission line for the trip of the parallel Lismore – Dunoon 132 kV transmission line during the outage of the Ballina – Lennox Head 132 kV transmission line.

Cheaper priced generation was available but limited due to ramp rates (Condamine PS A, Oakey PS unit 1, Braemar PS unit 3) or FCAS profiles (Callide B PS unit 2) or required more than one DI to synchronise (Roma GT unit 7 and 8 and Braemar PS unit 2 and 5) or was constrained off by the voltage constraint equation  $N^{Q\_NIL\_B1}$  (Kogan Creek PS unit 1).

The 5-minute prices in Queensland reduced to below \$75.00/MWh in the DIs subsequent to the high priced intervals, when demand reduced by up to 204 MW and up to 500 MW of generation capacity was rebid from bands priced at or above \$12,947.52/MWh to the Market Floor Price (MFP) of - \$1,000/MWh.

The high Queensland spot prices were not forecast in the pre-dispatch schedules, as the high prices were due to rebidding of generation capacity.