

Electricity Pricing Event Report – Thursday 06 August 2015 (TI ending 0000 hrs on 07 August 2015)

Market Outcomes: South Australian spot price reached \$2,310/MWh for trading interval (TI) ending 0000 hrs (on Friday, 07 August 2015).

FCAS prices and energy prices for the other NEM regions were not affected by this event.

Detailed Analysis: 5-Minute dispatch price reached \$13,333.95/MWh in South Australia for dispatch interval (DI) ending 2350 hrs on 06 August 2015. The high price can be attributed to rebidding during a period of high period due to hot water load management (ripple control). Between DIs ending 2325 hrs and 2350 hrs, the South Australian demand increased by 290 MW. This additional load represented an 15% increase in the South Australian demand.

Wind generation in South Australia was low at approximately 23 MW for TI ending 0000 hrs on 06 August 2015.

Between DIs ending 2335 hrs and 2345 hrs, a total of 304 MW of generation capacity from Quarantine PS and Northern PS was shifted or rebid from bands priced at or less than \$95/MWh to \$13,333.95/MWh or Market Price Cap (\$13,800/MWh).

For DI ending 2350 hrs, AGL rebid 95 MW of generation capacity from Torrens Island PS (Units A1, B1, B2, B3 and B4) from bands priced at or below \$64.99/MWh to bands priced at \$13,500/MWh or MPC. Cheaper priced generation was limited by ramp rates (Hallett PS and Osbourne PS) and fast-start units (Dry Creek units 2 and 3) which required time to synchronise.

For the high priced interval, generation offers at \$13,33.95/MWh had to be cleared from Northern PS to meet the demand for the high priced DI.

During the affected DI, the target flow towards South Australia on the Heywood interconnector was constrained to 460 MW by the Victoria to South Australia Heywood upper transfer limit thermal constraint equation, $V > S_{460}$. The target flow on the Murraylink interconnector was limited to 66 MW towards South Australia by an outage constraint equation, $V > S_{CB6033+6225_TX1}$. This constraint equation manages post-contingent flow on the North West Bend transformer no. 1 132/66 kV line during the planned outage of the North West Bend no. 3 132 kV transformer and its circuit breakers (CB6225 and CB6033) from 4 August 2015.

The 5-minute price reduced to \$34.36/MWh for the next interval (DI ending 2355 hrs) when the demand reduced by approximately 188 MW and 101 MW of non-scheduled generation came online. A total of 447 MW of generation capacity was also rebid from higher priced bands to bands priced at or below \$0/MWh.

The high 30-minute spot price for South Australia was not forecast in the pre-dispatch schedules, as it was a result of rebidding during the affected trading interval. The 5-minute load increase that caused a price spike in the 5-minute dispatch prices.