

Electricity Pricing Event Report – Monday 17 August 2015

Market Outcomes: South Australian spot price reached \$2,289.21/MWh for trading interval (TI) ending 2030 hrs.

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

Detailed Analysis: 5-Minute dispatch price reached \$13,500/MWh in South Australia for dispatch interval (DI) ending 2015 hrs. The high price can be attributed to rebidding of generation capacity.

The South Australian demand was 2,091 MW for TI ending 2030 hrs. During the high priced TI, wind generation in South Australia was 119 MW.

For DI ending 2015 hrs, AGL rebid 265 MW of generation capacity from Torrens Island PS from bands priced at below \$95/MWh to bands priced at or above \$13,500/MWh. Cheaper priced generation was available but limited due to ramp rates (Hallett PS), FCAS profile (Northern PS unit 2) or required more than one DI to synchronise (Quarantine PS). Northern PS unit 1 which generally offers capacity up to 273 MW was unavailable since 14 August 2015.

Generation offers at \$13,500/MWh had to be cleared from Torrens Island A PS unit 1 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 up to 209 MW towards South Australia by a voltage stability constraint equation, $V^{SML_NSWRB_2}$. This constraint equation avoids voltage collapse in Victoria for loss of the Darlington Point to Buronga (X5) 220 kV line.

The 5-minute price reduced to \$38.03/MWh in the subsequent DI to the high priced interval when the demand reduced by approximately 110 MW and 97 MW of non-scheduled generation came online. 708 MW of generation capacity was rebid to market floor price of -\$1000/MWh which also contributed to reducing the dispatch price.

The high 30-minute spot price for South Australia was not forecast in the pre-dispatch schedules, as it was a result of rebidding or withdrawal of generation capacity within the affected trading interval.