

## Electricity Pricing Event Report – Wednesday, 30 November 2016

**Market Outcomes:** Spot price in Tasmania reached \$2,392.93/MWh for trading interval (TI) ending 1230 hrs.

Energy and FCAS prices in other regions were not affected by this event.

**Detailed Analysis:** The 5-Minute dispatch price in Tasmania (TAS) reached the Market Price Cap (MPC) of \$14,000/MWh for dispatch interval (DI) ending 1205 hrs. This high price can be mainly attributed to constrained generation while Basslink was exporting to Victoria.

Planned outage of the Sheffield – George Town No.2 220 kV line was scheduled between 0500 hrs on 30 November 2016 and 1335 hrs on 6 December 2016. The outage constraint set T-GTSH was invoked for the duration of the outage.

Woolnorth WF and Studland WF were unavailable due to an outage of Bluff Point – Studland – Smithton 110 kV line from 0600 hrs to 1600 hrs on 30 November 2016. This resulted in low wind generation of 47 MW in TAS for DI ending 1205 hrs.

During the high priced DI, the target flow on Basslink was forced towards Victoria by the outage constraint equation  $T >> T\_GTSH\_EXP\_3H$ . This network control system protection scheme (NCSPS) constraint prevents the overload on Palmerston - Sheffield 220 kV line for the trip of the remaining Sheffield - Georgetown 220 kV line during the outage of the parallel Sheffield - Georgetown 220 kV line. The flow towards Victoria was 79 MW, which violated the constraint limit of 90.04 MW.

For DI ending 1205 hrs, a number of generators (Bastyan PS, Cethana PS, Devils Gate PS, Fisher PS, John Butters PS, Lemonthyme and Wilmont, Mackintosh PS, Reece unit 1 and 2 and Tribute PS) were constrained off by the  $T >> T\_GTSH\_EXP\_3H$  constraint equation. Cheaper priced generation was available but limited due to FCAS profiles (Gordon PS, Catagunya, Liapootah and Wayatinah PS, Poatina unit 1 and 2 and Trevallyn PS).

The 5-minute dispatch price reduced to \$81.83/MWh for DI ending 1210 hrs, when demand reduced by approximately 25 MW. During this DI, a number of generators were no longer constrained off when the constraint equation  $T >> T\_GTSH\_EXP\_3H$  stopped violating.

The high 30-minute spot price was not forecast in any of the pre-dispatch schedules.