Advancing physical energy markets

Training & Education

Fundamentals of market-based balancing

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Market-Based Balancing - MPOC Change Request

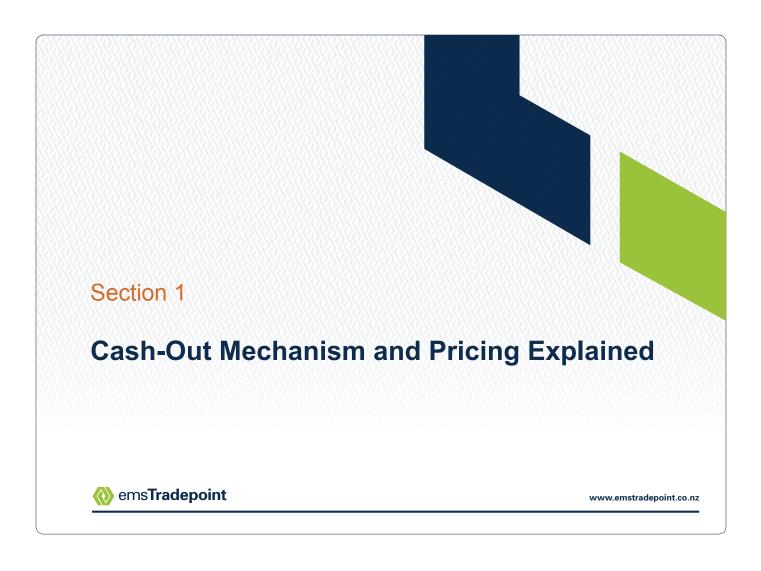
The introduction of a market-based balancing (MBB) regime is a further step to address long-standing gas balancing issues on the Maui pipeline. Originally proposed by MDL in October 2014, under this regime imbalance positions at Maui welded points will be cashed-out on a daily basis. In addition, balancing gas may be traded on a wholesale trading platform.

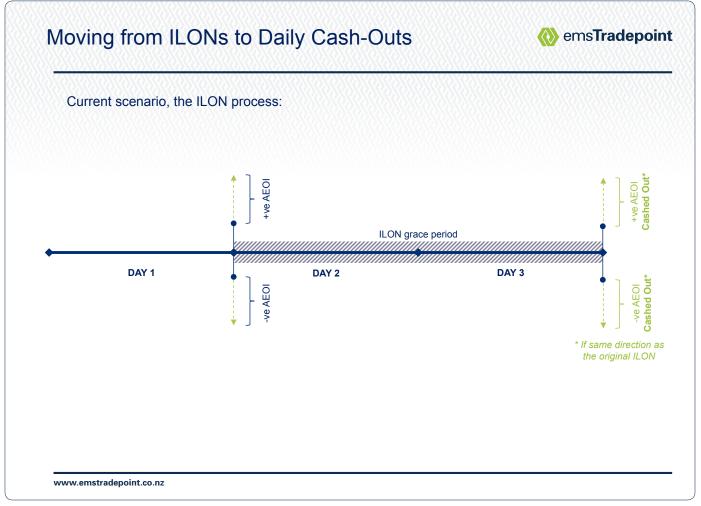
Key changes to the cash-out mechanism:

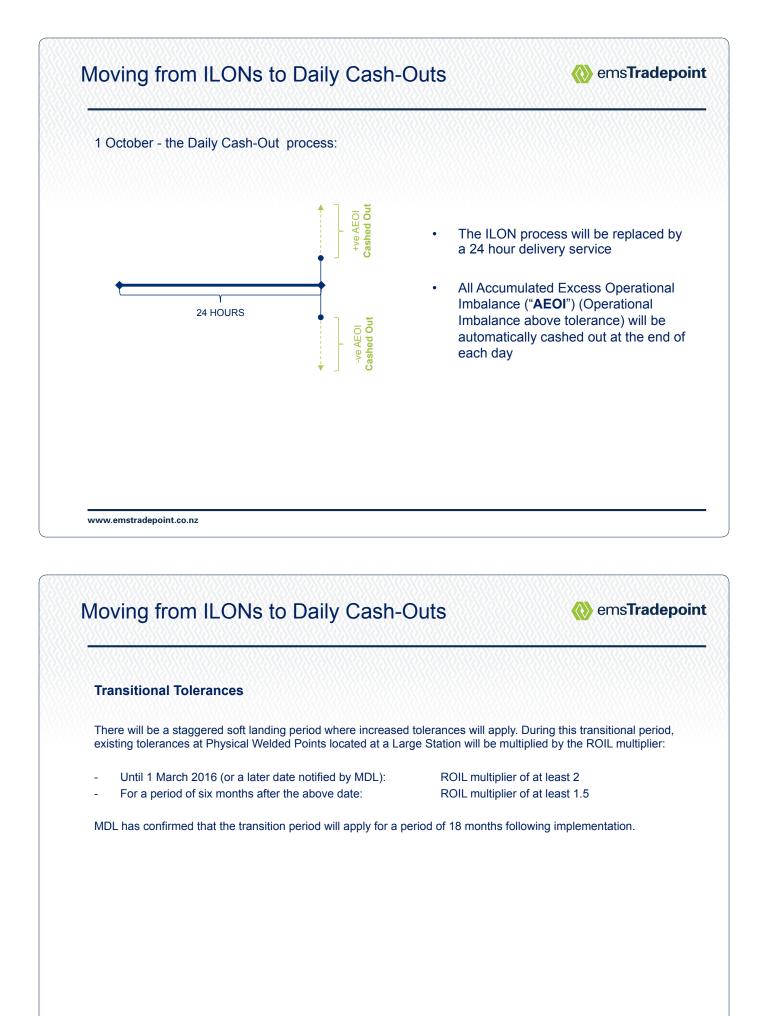
- replacing the current 'Imbalance Limit Overrun Notice' ("ILON") regime with automatic ex-post cashing-out of all operational imbalance outside of tolerance;
- allowing the balancing agent to buy and sell balancing gas on a more liquid, open access market; and
- Inking cash-out prices (currently referred to as Mismatch Prices) to the spot market in lieu of using Balancing Gas Exchange outcomes.

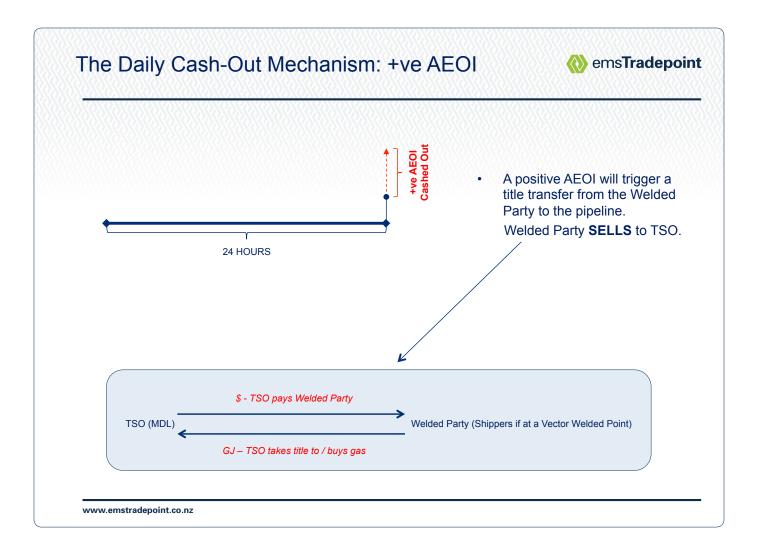
emsTradepoint is currently the trading platform that will set the cash-out prices and resulting Price Risk.

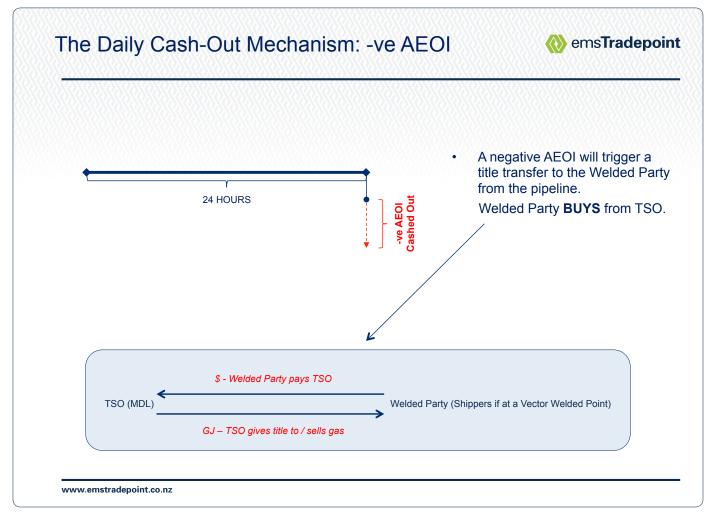
The GIC has issued a final recommendation in support of the MBB Change Request and the expected implementation date is 1 October 2015.

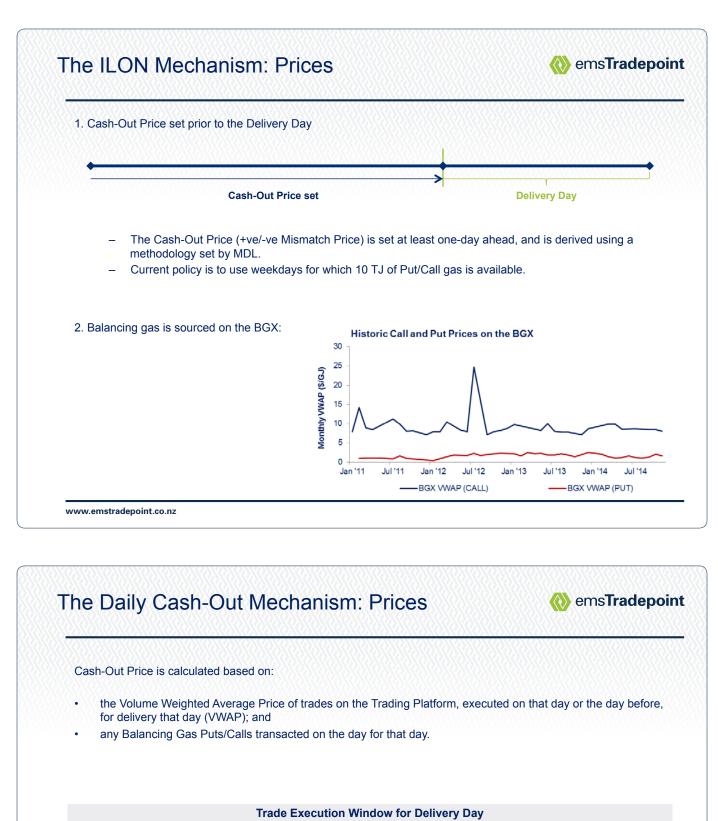












Only trades executed within this window will be included in the VWAP calculation

Day Prior

Delivery Day

Window for Balancing Gas Transactions Only Balancing Gas puts/calls transacted on the day will be included

The Daily Cash-Out Mechanism: Prices



POSITIVE CASH-OUTS

The Welded Party will be paid the lower of:

- Trade VWAP minus A minus B; OR
- The lowest price paid for Put balancing gas **minus B**.

NEGATIVE CASH-OUTS

The Welded Party will pay the higher of:

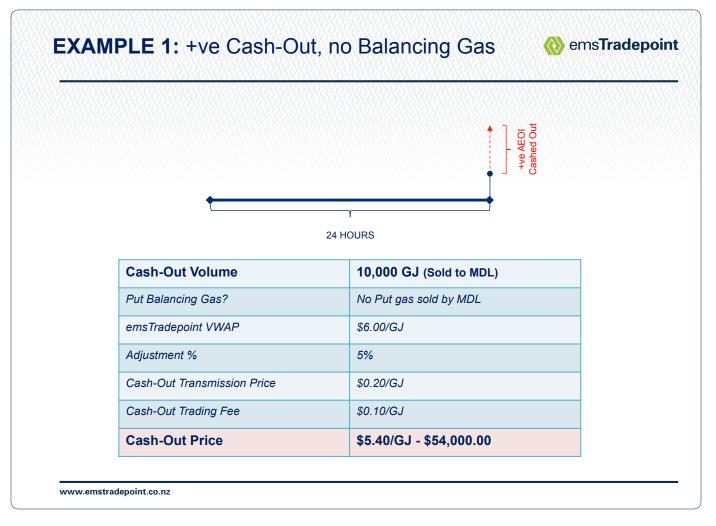
- Trade VWAP plus A plus B; OR
- The highest price paid for Call balancing gas plus B.

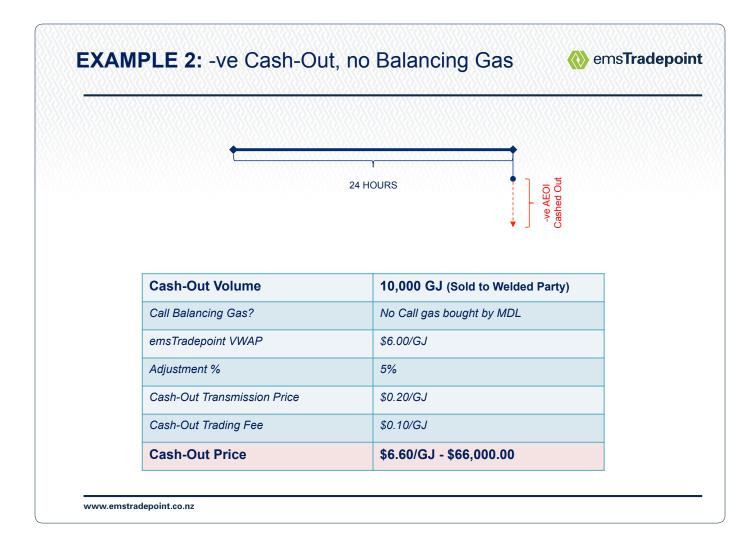
A = 0-10% of VWAP

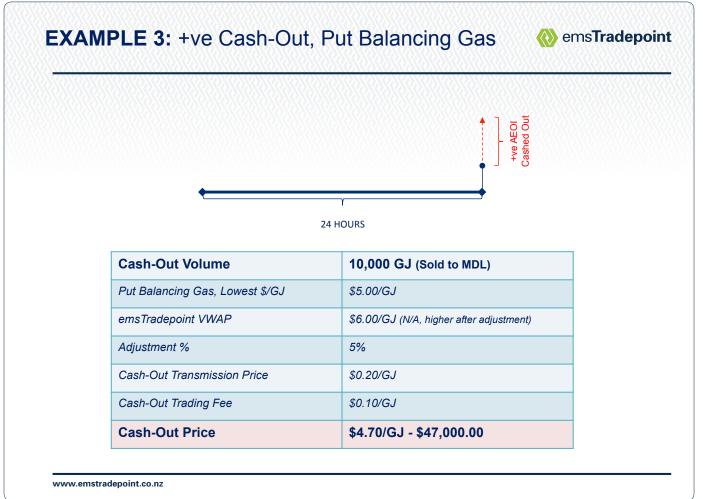
The percentage adjustment factor, A, will be set by MDL within this range.

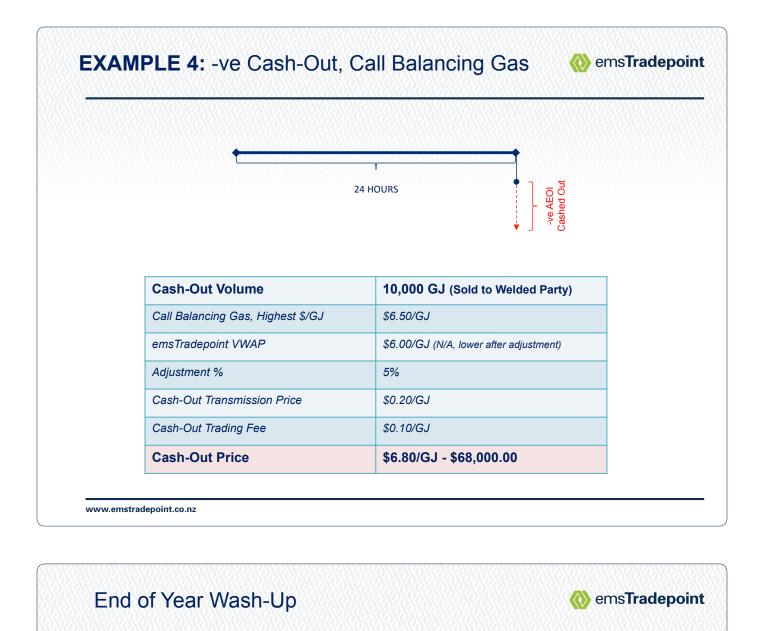
B = Cash-Out Transmission Price + Cash-Out Trading Fee Price

The Cash-Out Transmission Price is a proxy for Tariff 1 and 2 between the Welded Point and MDL's Payback Point. The Cash-Out Trading Fee Price is the average of emsTradepoint's trading fees, currently \$0.10/GJ.









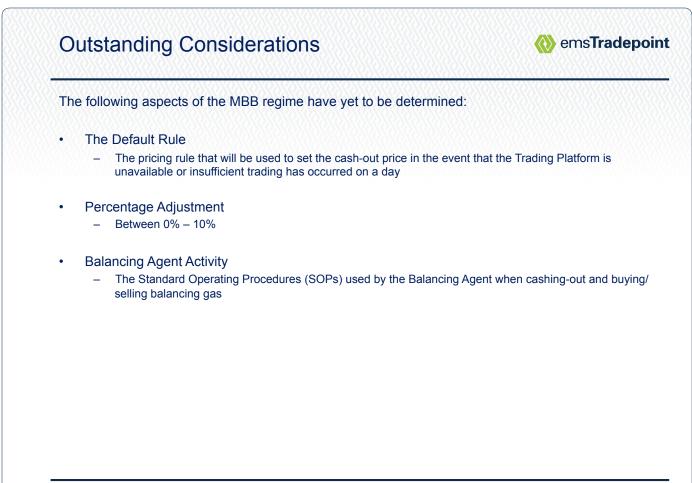


- + Monies received from Welded Parties for -ve AEOI
- + Monies received from consumers of Put Balancing Gas
- + Monies received from Peaking Charge
- Monies paid to Welded Parties for +ve AEOI
- Monies paid to suppliers of Call Balancing Gas

Net = Overall Recovery

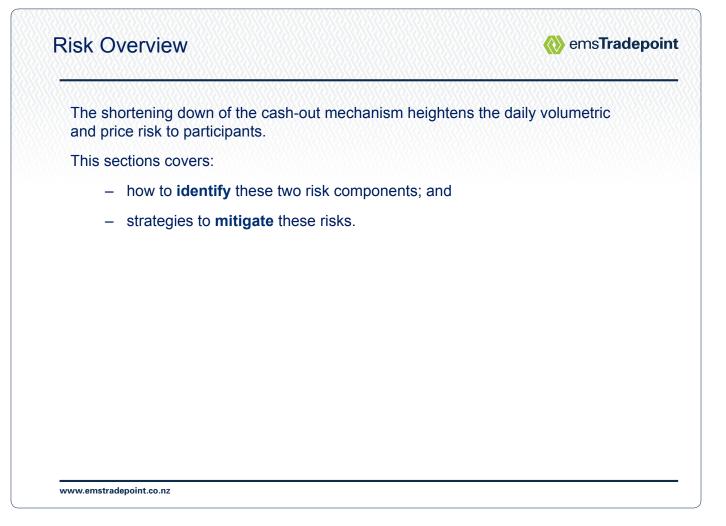
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If:
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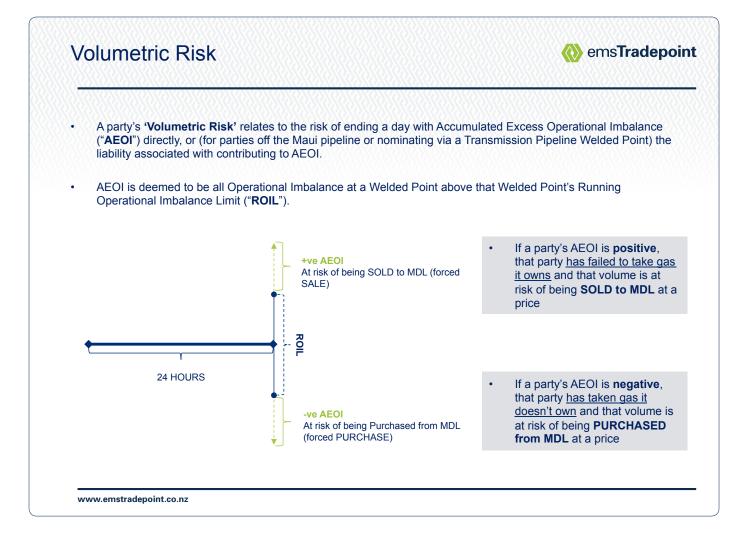
- Overall Recovery > 0: The TSO redistributes this to users by lowering the tariff in the following year.
- Overall Recovery < 0: The TSO shares the cost evenly with all users by increasing the tariff in the following year.

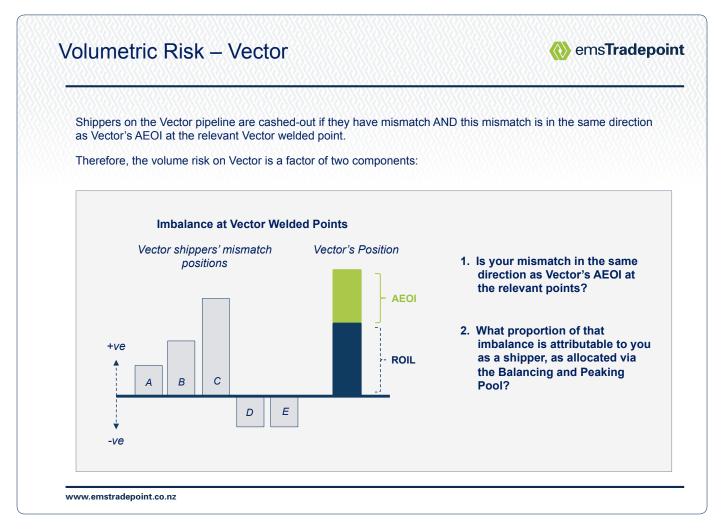


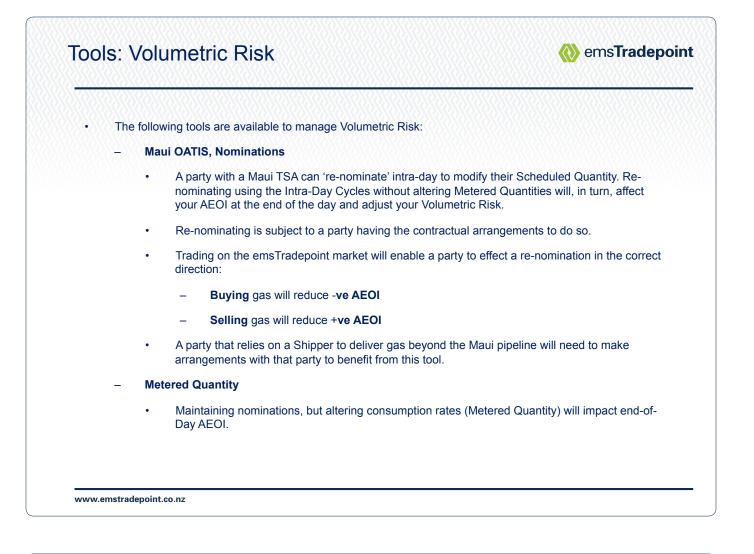


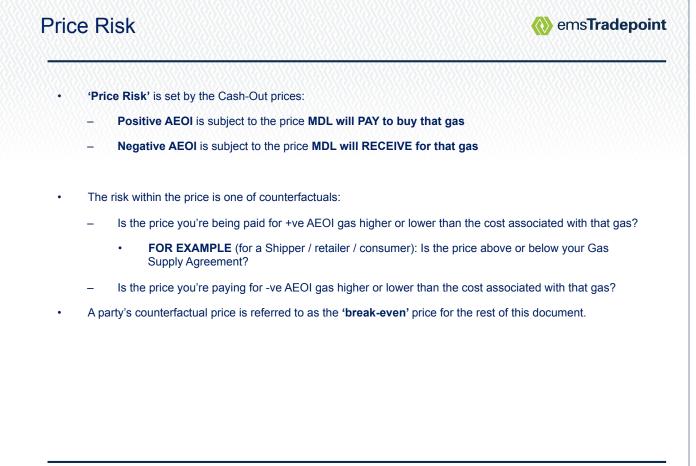
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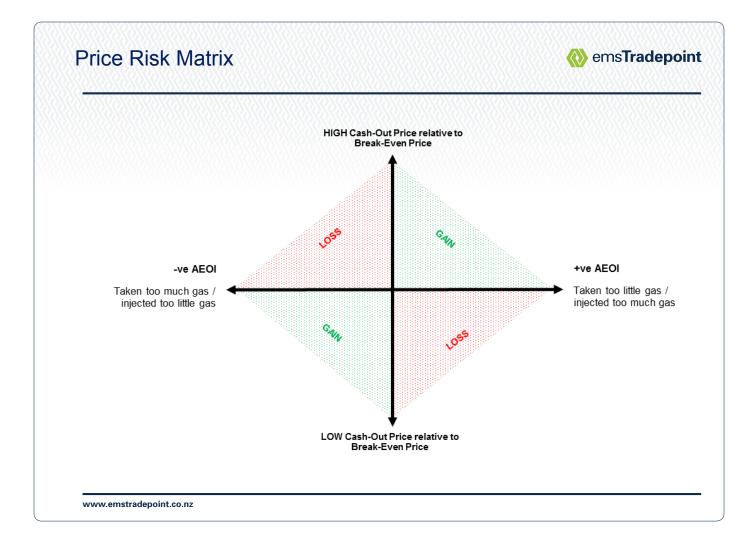


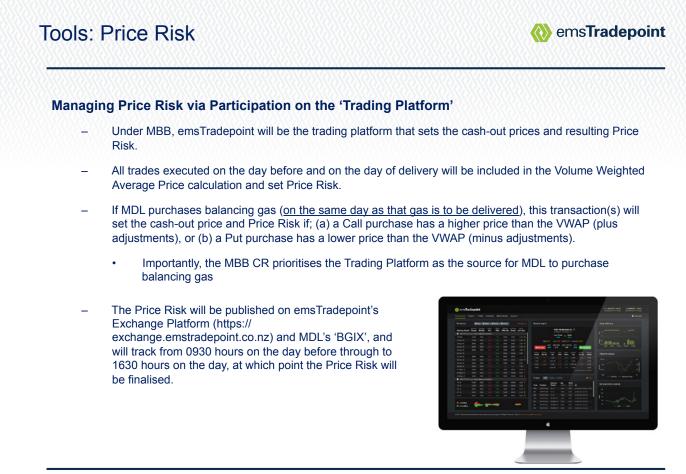


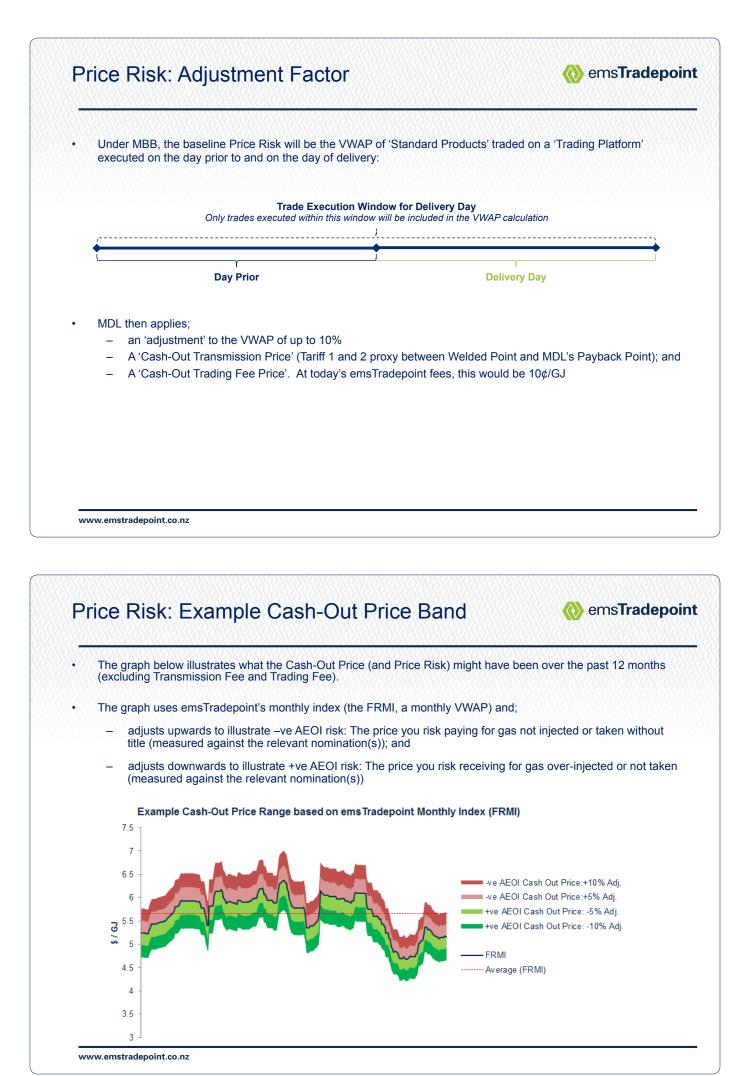




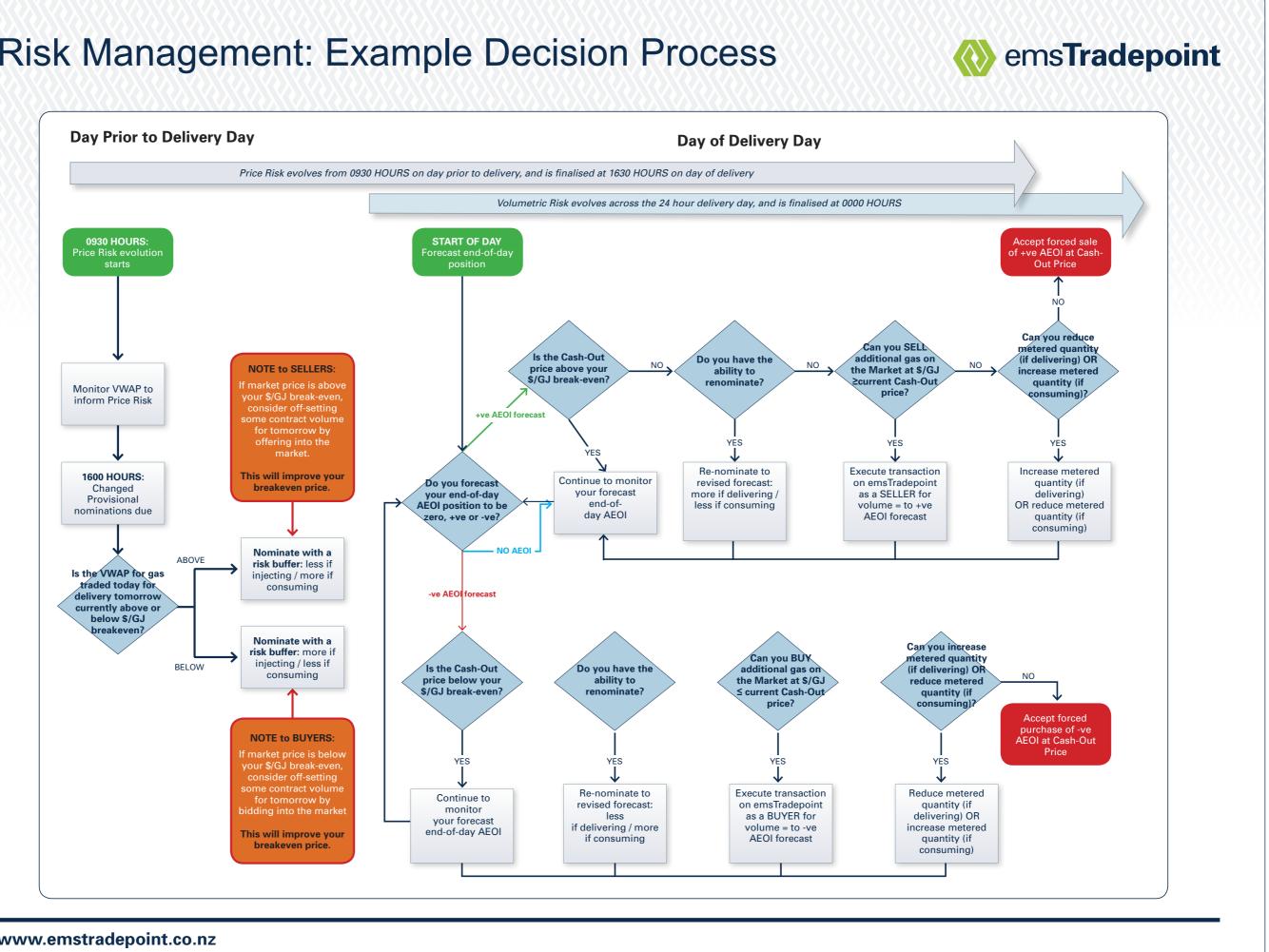




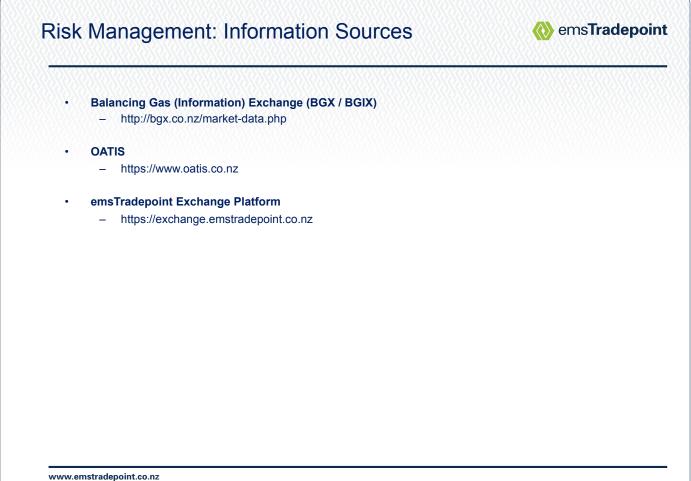




Risk Management: Example Decision Process

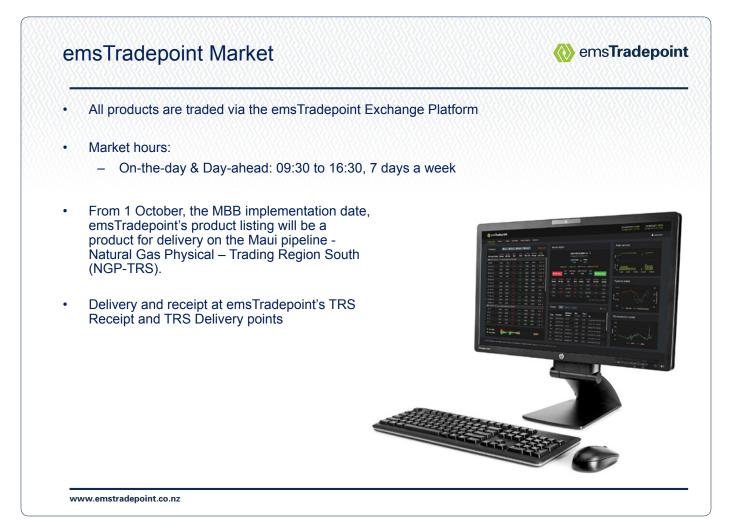


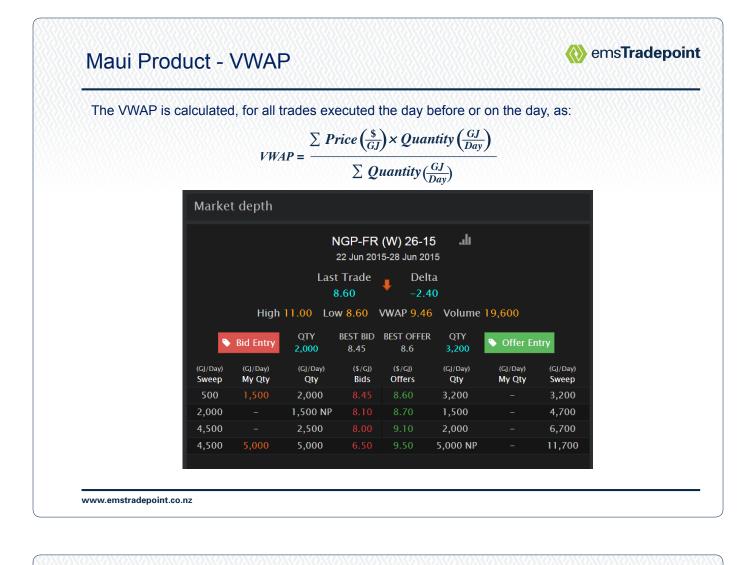


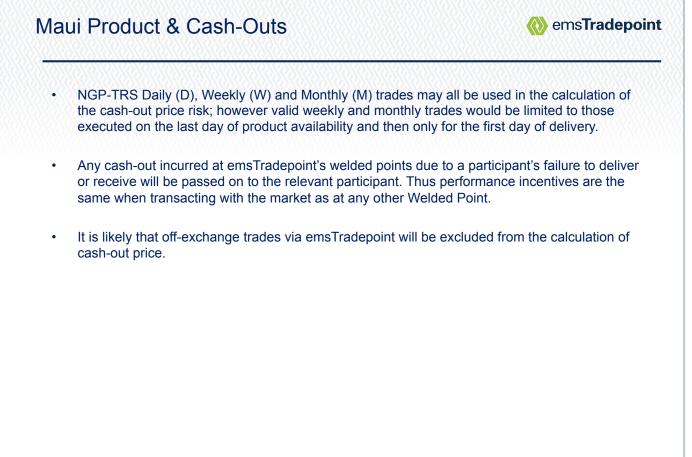


Section 3 Exchange Platform and NGP-TRS

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