

# 'Market-Based Balancing' MPOC Change Request

Nov 2014

The revised Cash-Out mechanism and pricing explained





- The proposed 'Market-Based Balancing' Change Request seeks to modify the cash-out mechanism by;
  - Replacing the current 'Imbalance Limit Overrun Notice' ("**ILON**") regime with automatic ex-post cashing-out of all operational imbalance outside of tolerance; and
  - linking cash-out prices (currently referred to as Mismatch Prices) to the spot market in lieu of using Balancing Gas Exchange outcomes.
- This slide pack looks to inform the reader of;
  - the modified cash-out mechanism; and
  - how prices would be set,

under the MBB version of the Maui Pipeline Operating Code.

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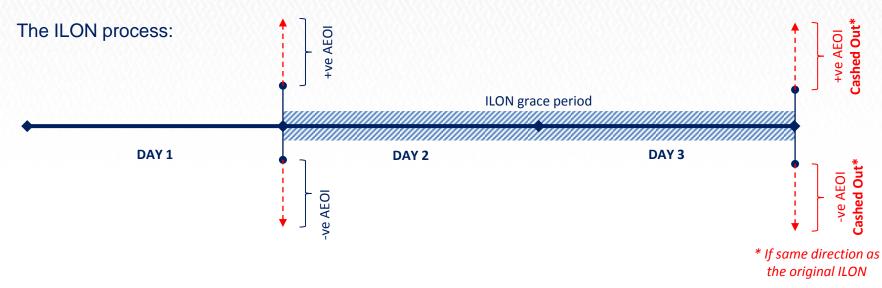
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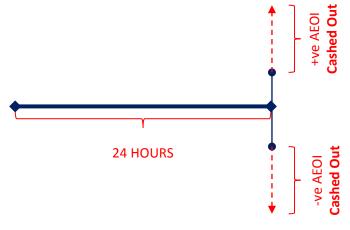
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### Moving from ILONs to Daily Cash-Outs





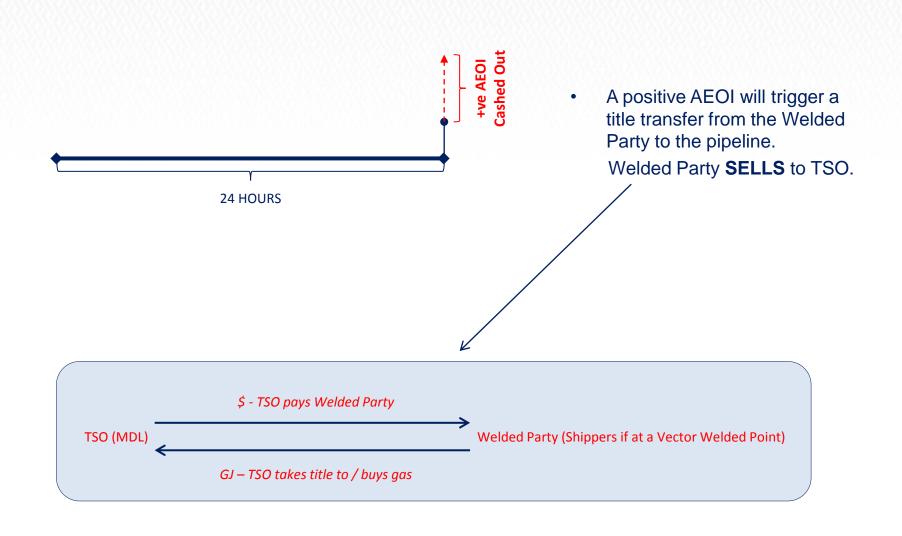




- The ILON process will be replaced by a 24 hour delivery service
- All Accumulated Excess Operational Imbalance ("**AEOI**") (Operational Imbalance above tolerance) will be automatically cashed out at the end of each day
- There will be a staggered soft-landing period, during which time allowable tolerances at Welded Points will be increased.

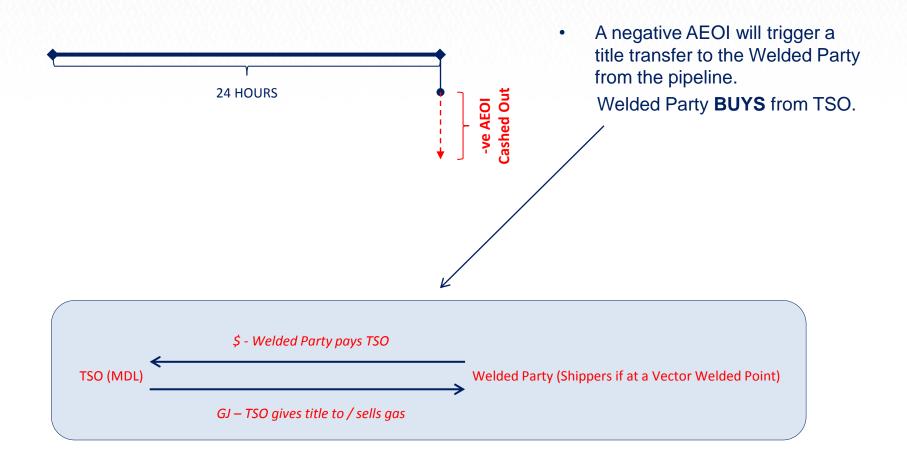
### The Daily Cash-Out Mechanism: +ve AEOI





### The Daily Cash-Out Mechanism: -ve AEOI





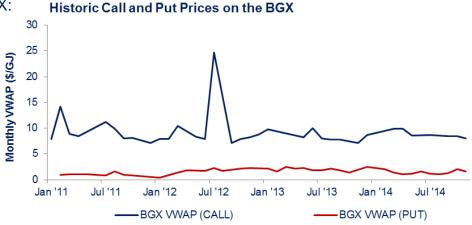
### The ILON Mechanism: Prices



Under the current ILON model:



- The Cash-Out Price (+ve/-ve Mismatch Price) is set at least one-day ahead, and is derived using a methodology set by MDL. Current policy is to use weekdays for which 10 TJ of Put/Call gas is available.
- Balancing Gas is sourced on the BGX:



Under the MBB model, Cash-Out Prices are derived from average market prices & balancing gas calls/puts, traded on-the-day or the day prior. (See next slide).

### The Daily Cash-Out Mechanism: Prices





#### **Cash-Out Prices:**

- +ve Cash-Outs, the lower of:
  - Volume Weighted Average Price of trades on the Trading Platform<sup>^</sup> for delivery on the relevant day and executed on that day or the day before (see above) minus A; OR
  - The lowest price paid for Put balancing gas (if sold on the same day of delivery) minus B.
- -ve Cash-Outs, the higher of:
  - Volume Weighted Average Price of trades on the Trading Platform<sup>^</sup> for delivery on the relevant day and executed on that day or the day before (see above) plus A; OR
  - The highest price paid for Call balancing gas (if purchased on the same day as delivery)
    plus B.

 $A = [0-10\%]^*$  of VWAP + Cash-Out Transmission Price + Cash-Out Trading Fee Price B = Cash-Out Transmission Price + Cash-Out Trading Fee Price

^emsTradepoint will be considered a 'Trading Platform' under the MPOC, so will set this price \*The percentage is set by MDL

## **EXAMPLE 1:** +ve Cash-Out, no Balancing Gas





| Cash-Out Volume             | 10,000 GJ (Sold to MDL) |
|-----------------------------|-------------------------|
| Put Balancing Gas?          | No Put gas sold by MDL  |
| emsTradepoint VWAP          | \$6.00/GJ               |
| Adjustment %                | 5%                      |
| Cash-Out Transmission Price | \$0.20/GJ               |
| Cash-Out Trading Fee        | \$0.10/GJ               |
| Cash-Out Price              | \$5.40/GJ - \$54,000.00 |

### **EXAMPLE 2: -**ve Cash-Out, no Balancing Gas





| Cash-Out Volume             | 10,000 GJ (Sold to Welded Party) |
|-----------------------------|----------------------------------|
| Call Balancing Gas?         | No Call gas bought by MDL        |
| emsTradepoint VWAP          | \$6.00/GJ                        |
| Adjustment %                | 5%                               |
| Cash-Out Transmission Price | \$0.20/GJ                        |
| Cash-Out Trading Fee        | \$0.10/GJ                        |
| Cash-Out Price              | \$6.60/GJ - \$66,000.00          |

## **EXAMPLE 3:** +ve Cash-Out, Put Balancing Gas





| Cash-Out Volume                 | 10,000 GJ (Sold to MDL)                  |
|---------------------------------|--|
| Put Balancing Gas, Lowest \$/GJ | \$5.00/GJ                                |
| emsTradepoint VWAP              | \$6.00/GJ (N/A, higher after adjustment) |
| Adjustment %                    | 5%                                       |
| Cash-Out Transmission Price     | \$0.20/GJ                                |
| Cash-Out Trading Fee            | \$0.10/GJ                                |
| Cash-Out Price                  | \$4.70/GJ - \$47,000.00                  |

### **EXAMPLE 4: -**ve Cash-Out, Call Balancing Gas





| Cash-Out Volume                   | 10,000 GJ (Sold to Welded Party)        |
|-----------------------------------|---|
| Call Balancing Gas, Highest \$/GJ | \$6.50/GJ                               |
| emsTradepoint VWAP                | \$6.00/GJ (N/A, lower after adjustment) |
| Adjustment %                      | 5%                                      |
| Cash-Out Transmission Price       | \$0.20/GJ                               |
| Cash-Out Trading Fee              | \$0.10/GJ                               |
| Cash-Out Price                    | \$6.80/GJ - \$68,000.00                 |

### End of Year Wash-Up



- On an annual basis, the TSO calculates the overall recovery of balancing gas costs/incomes and cash-out costs/incomes:
  - + 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* 

If:

- 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.

