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Key functions of the TSOs

- $\circ\,$ Jointly attempt to agree a draft balancing plan and BA $\,$
- $\circ~$ Consult on the draft plan with persons likely to be impacted
- $\circ~$ Obtain industry body approval of proposed plan
- $\circ~$ Act consistently with the rules and cooperate with the BA
- $\circ~$ Provide BA with necessary information
- $\circ~$ Provide BA with balancing gas transmission services
- $\circ~$ Publish its compressor operation policy
- $\circ\,$ Adjust user's allocations for any cash-out determined by the BA

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- Suggest amendments if needed
- Approve balancing plan if meets purpose and rules
- o Develop balancing plan and appoint BA if TSOs in deadlock
- Audit BA performance against rules
- $\circ~$ Review and approve proposed amendments to balancing plan

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Key functions of the BA

- Manage linepack by buying or selling balancing gas
 BA acting as an 'agent' on behalf of users*
- Allocate balancing gas and its cost (ie determine cash-outs)
 - Provide information on balancing gas allocations to the TSOs
 - Invoice / credit users for balancing gas costs ('pay when paid' provisions may be included in balancing gas contracts*)
 - Trade any unallocated balancing gas
 - Act independently and at arms length
 - Enter required balancing gas transmission service agreements
 - Title to balancing gas passes at time of balancing action*

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Linepack management

- Balancing zones are either directly or indirectly managed
- For directly managed balancing zones
 - BA buys or sells balancing gas
- balancing action taken when linepack will go outside thresholds
 see next slide
- see next slide
- For indirectly managed balancing zones
 balanced via directly managed zones (e.g. Huntly township via pressure regulator from Maui pipeline)
- Balancing zones and thresholds defined in balancing plan
- thresholds must give maximum flexibility without unreasonably interfering with transmission services
 BA to warn TSO and CCO* if insufficient balancing gas available

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Contents of the balancing plan

 $\circ\,$ Must be consistent with the rules and purpose, and provide:

- identity of the BA
- balancing zones (including which are directly managed)
- linepack thresholds (may vary with time or be a formula)
- target linepack for each balancing zone (must be midpoint where there are thresholds)
- method of balancing indirectly managed balancing zones
- process to notify and coordinate operations
- technical requirements for procurement of balancing gas
- times for decisions on procurement of balancing gas
- price thresholds (caps)
- allocation model
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Development of the balancing plan

- TSOs attempt to agree the balancing plan and the BA
- TSOs consult on the draft plan (20 business days)
- TSOs may amend the draft plan
- if minor changes then submit to industry body for approval
 if material changes then repeat consultation
- Industry body approves plan if it meets the rules and purpose
 if declined then TSO considers the reasons and may resubmit (and consult again for 10 business days if there is a material change)
- Industry body publishes the approved plan

 go-live is the start of the month after approval (or following month if after the 25th)
- o Industry body may produce plan and appoint BA if TSOs are
- dead-locked



Funding

• TSOs to pay BA

- TSOs to pay any industry body costs in relation to the rules
 cost of reviewing and approving balancing plan
 - costs of producing the balancing plan and appointing the BA if the industry body is forced to do this under the dead-lock breaking mechanism
 - similar funding model to other market arrangements
- TSOs to pay in proportion to their total pipeline gas flows received or delivered, other than to or from another TSO
 - i.e. pay on throughput into or out of the total transmission system
- TSOs pass costs on in proportion to the quantities of gas transmitted by that user or in another way agreed by the industry body*

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Balancing example – scenario (slide 1)

- Same balancing zones as current
- Low Maui linepack with -2000 GJ imbalance
- $\circ\,$ Balancing reference location within Maui pipeline
- $\circ\,$ BA to buy 1000 GJ, $\,$ has 3 offers to provide balancing gas
 - offer A, at Vector north pipeline, 600 GJ at \$10 /GJ, BA transmission costs to reference location are \$0.2/GJ
 - offer B, at Maui reference location, 800 GJ at \$8 /GJ, no BA transmission costs
 - offer C, at Vector south pipeline, 700 GJ at \$6/GJ, BA transmission costs to reference location are \$0.3 /GJ
- Note that this is one balancing action. Any others in the day would be cleared and allocated separately.

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