

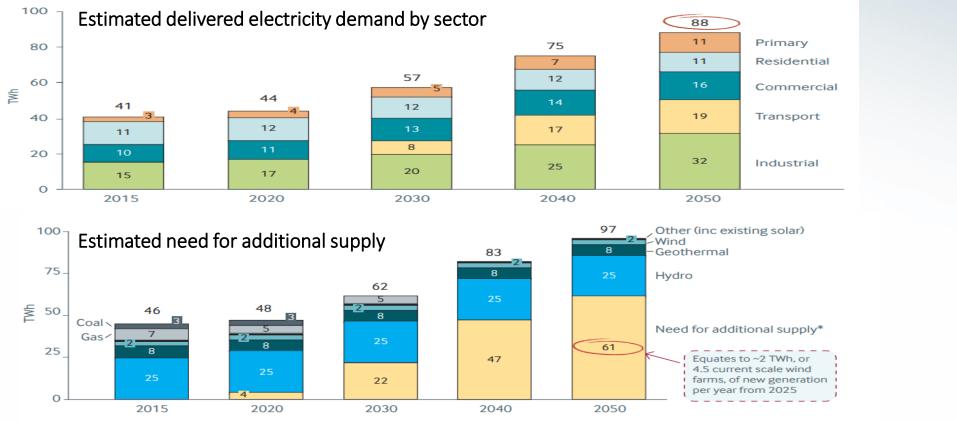
Theme 2 Competitive and investable energy market

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New Zealand

28 November 2018

New Zealand is forecast to need new generation to meet demand growth from transport and industrial sectors





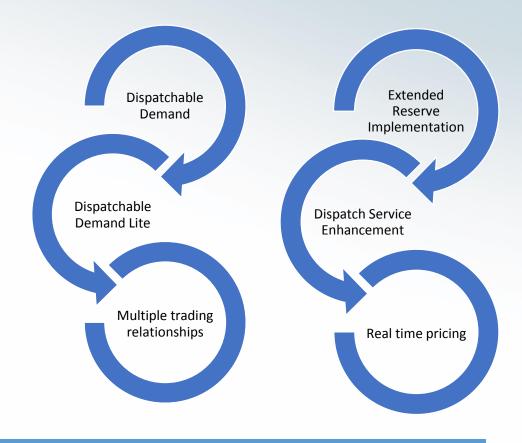
It is expected new generation will arise from a range of new and existing technologies with a focus on low and no carbon options



^{*} Represents the difference between estimated electricity demand growth, grossed up to ensure redundancy, and the net of currently Source: Transpower generation assets less currently expected closures.

Changes in both generation and demand technology highlight the need for efficient demand response and ancillary services to meet consumers need for secure and reliable electricity supply

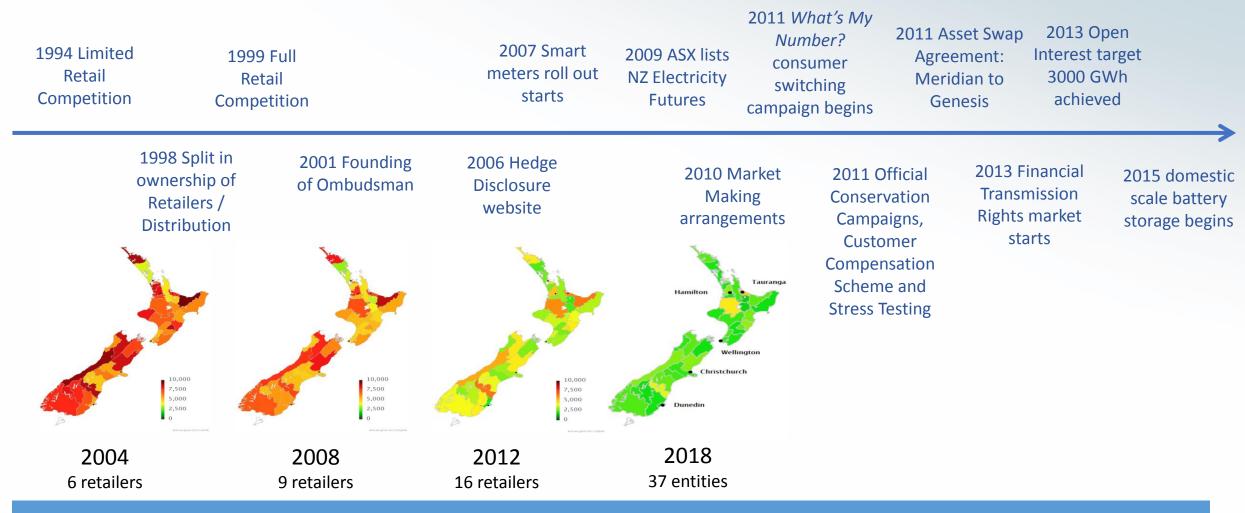




In developing demand response and ancillary services our preference is to achieve competitive market outcomes however this can have its challenges



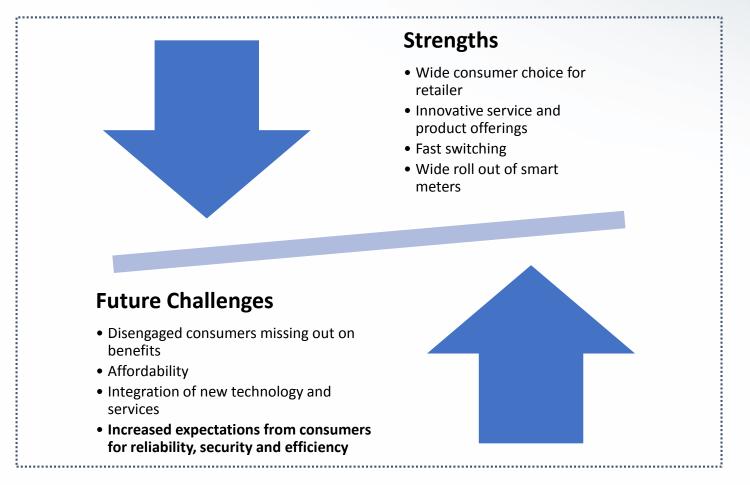
New Zealand's retail market has evolved considerably since 1990s



And it has required substantial oversight and engagement by the regulator



Our retail market is exciting but also presents dynamic challenges moving forward



RANGE OF PRODUCTS

- ✓ Spot pass through
- ✓ Free hour of power
- ✓ Choice of payment options
- Electric Vehicle charging rates
- ✓ Loyalty Schemes
- ✓ E-billing
- ✓ Pre-pay plans
- ✓ Peer to peer retailing
- ✓ Bundled with other bills

Which leads back to the need to also get the investment signals for wholesale and ancillary service markets functioning



Appendix

