Transpower New Zealand

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TRANSPOWER















Otahuhu Substation Diversity Project





Otahuhu substation upgrade

- Proposal
 - Build physically separate 220 kV switchyards from existing facility
 - Underground 220 kV lines crossing existing switchyard
- Status
 - Approved
- Benefits
 - Strengthens the resilience of Otahuhu substation (key Auckland node) to high impact low probability events
 - Provides diversity to New Zealand's largest load centre -Auckland



North Island Grid Upgrade Proposal

North Island Transmission reinforcement (NZ \$683 m)

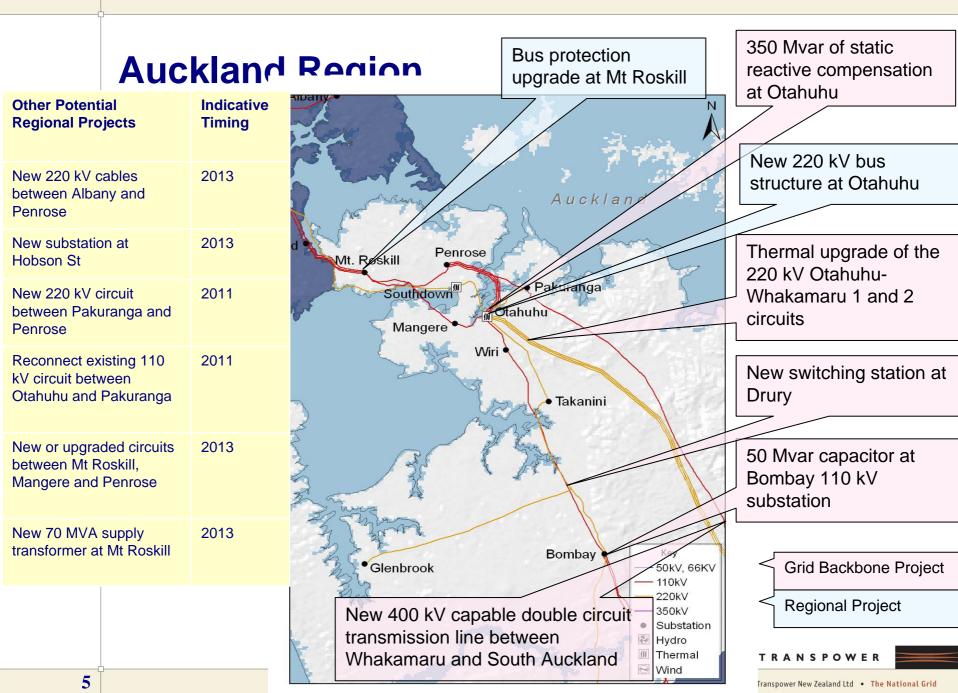
- Proposal:
 - New 190 km, 400 kV capable line into South Auckland from Central North Island. Final 9km underground
- Status
 - North Island Grid Upgrade Proposal receives Notice of Intention to Approve (January)
 - Notice of Requirement (NOR) lodged to all affected councils beginning formal RMA processes (May)
- Benefits
 - Provides long-term confidence in supply capacity to Auckland and the Upper North Island
 - Supports the significant geothermal projects of the Central North Island



North Auckland and Northland (NAaN) Project

- North Auckland and Northland (NAaN project)
 - Consultation process being agreed to with the Electricity Commission
 - Transpower has spent NZ \$50 million on preparatory work to install underground cables between Hobson St and Albany
 - Transpower/Vector negotiating use of tunnel
 - Transpower/Vector see need date as 2011-2013





HVDC Replacement Project

Replacement of Pole 1 of Inter Island HVDC link

Status

- Now agreed with Electricity Commission (EC) on a process for consulting on the HVDC Pole 1 replacement investigation project.
- Expecting to submit proposal to EC for approval in fourth quarter 07.
- Project cost likely to be several hundred million dollars.

