Who is TRANSPOWER?

- Links Generators to Distribution Networks and major users.
- SOE owner and system operator of National Electricity Grid
- Generally redundancy built into system, ie more than one line of supply to most major cities
What is **TRANSPower**?

- 12,000 km’s of transmission lines
- 170 substations and switchyards
- Stand alone communications system
- National co-ordination centres in Hamilton and Wellington
- Regional operating centres in Otahuhu, Haywards and Islington.
Key drivers for service continuance

- CDEM Act 2002
- System Operator contract with Electricity Commission
- Connection Contracts
- Statement of Corporate Intent
Business Continuity Management in place

- Executive Crisis Management Plan
- Business continuity plans for core functions
- Emergency response procedures for asset management and system operation
- Contingency Plans for specific events

Civil Defence and Emergency Management Act

Compliance with Act is based upon the 4 R’s

- Reduction
- Readiness
- Response
- Recovery
What could happen?
Risk Reduction

- Ongoing programme of equipment upgrading
- New transmission lines planned to supply Christchurch and Auckland
- Increasing capacity of existing transmission lines
- Programme of vulnerability identification on a national basis (periodic three yearly)
Policy Objectives

- Maintain supplies during and after Edgecumbe sized earthquake (MMIX)
- Restore supplies to damaged areas within 5 days
- Ensure safety of public and personnel
- Minimise resulting cost of repairs
Summary

- National Grid an essential Lifeline
- Operated with real time management
- Over the years has invested heavily in risk reduction as well as risk management
- Ongoing process to keep service as reliable as is practical