

Electricity Infrastructure and Supply for Rugby World Cup 2011

SRC - August 2011

Kieran Devine

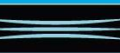
General Manager System Operations

TRANSPower



RWC2011

- Why focus on electricity infrastructure
- Industry steering group
- Supply and demand
- Transpower planning and operational measures
- Vector planning and operational measures
- Summary
- Questions

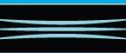
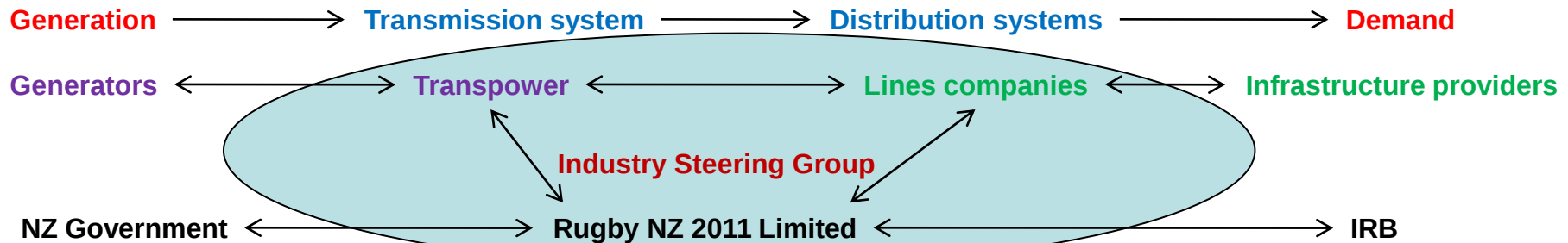
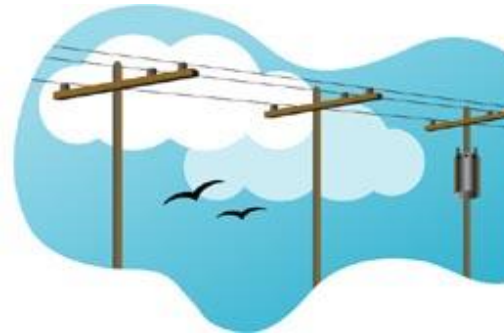
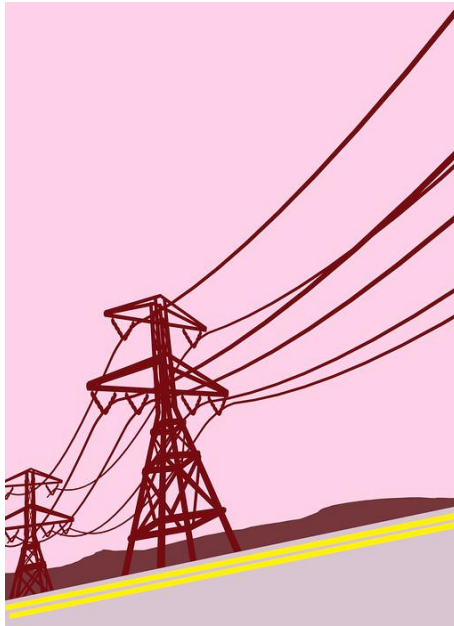
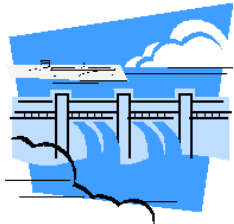


The eyes of the World on NZ

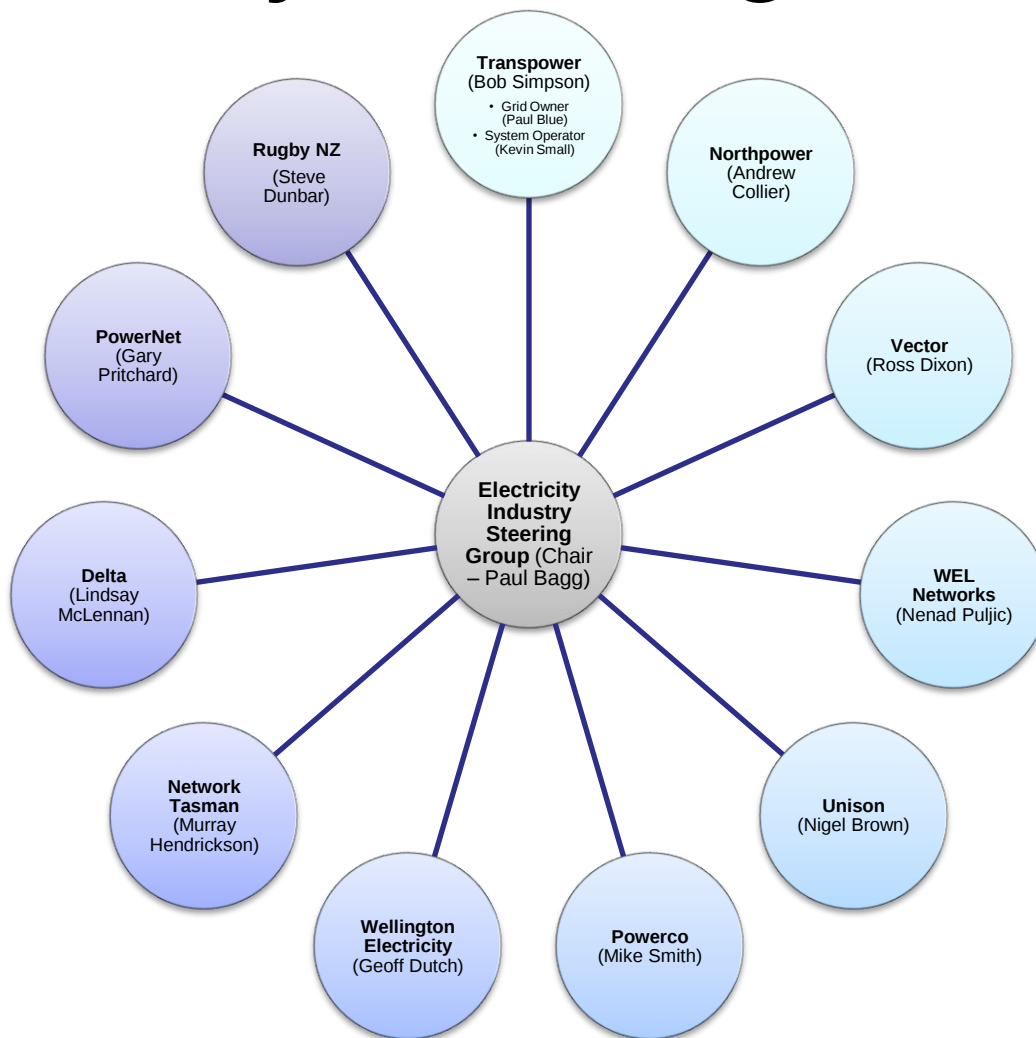
- 1998 – Auckland Power Crisis
- 3 February 2009 – Broken shackle at Otahuhu
- 25 April 2009 – lights failure at North Harbour Stadium (Super 14 game)
- 30 October 2009 – Forklift operator at Metroport
- 25 January 2010 – Fire under a line in the Waikato



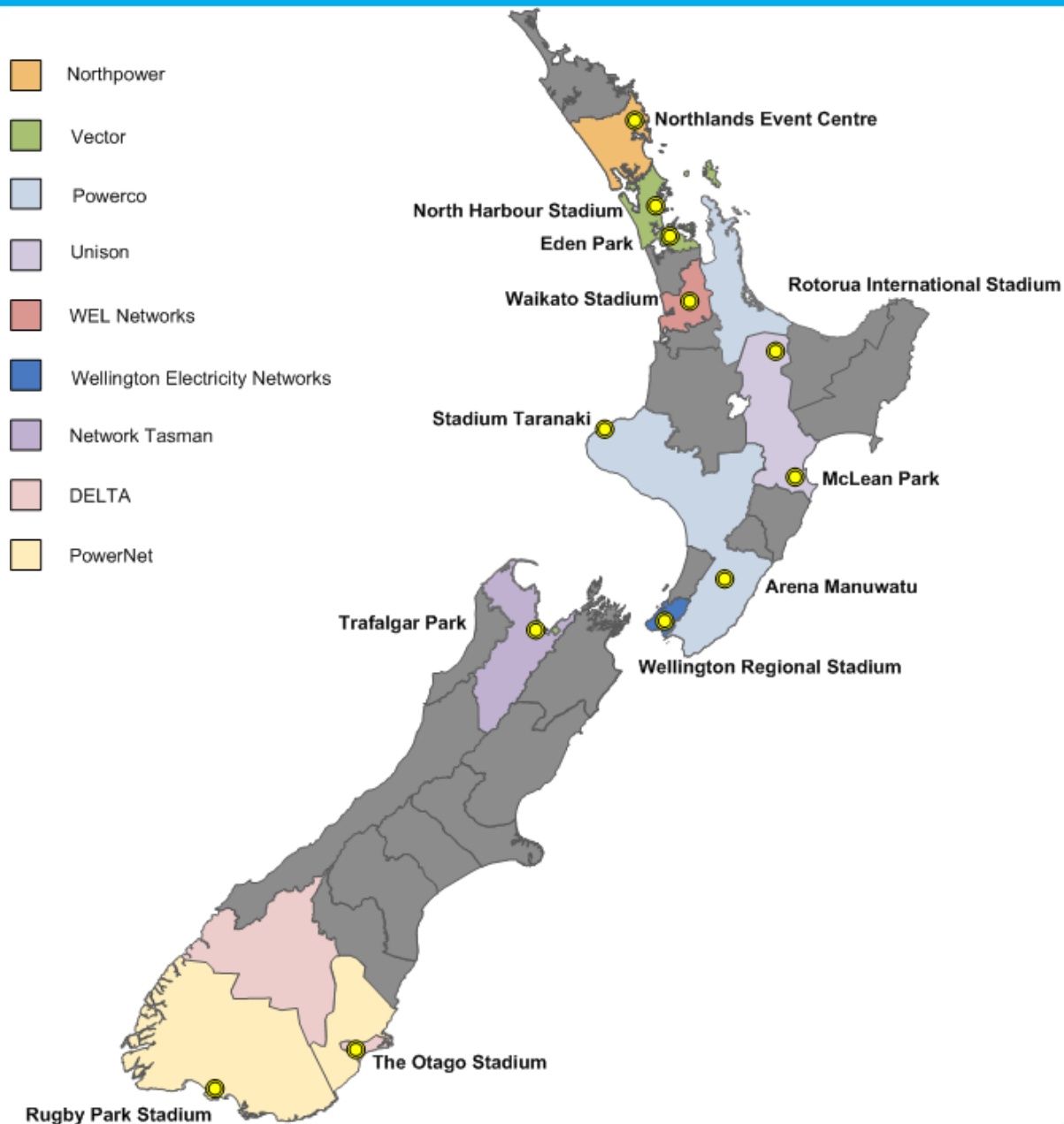
Whole industry approach



Industry Steering Group

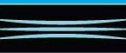
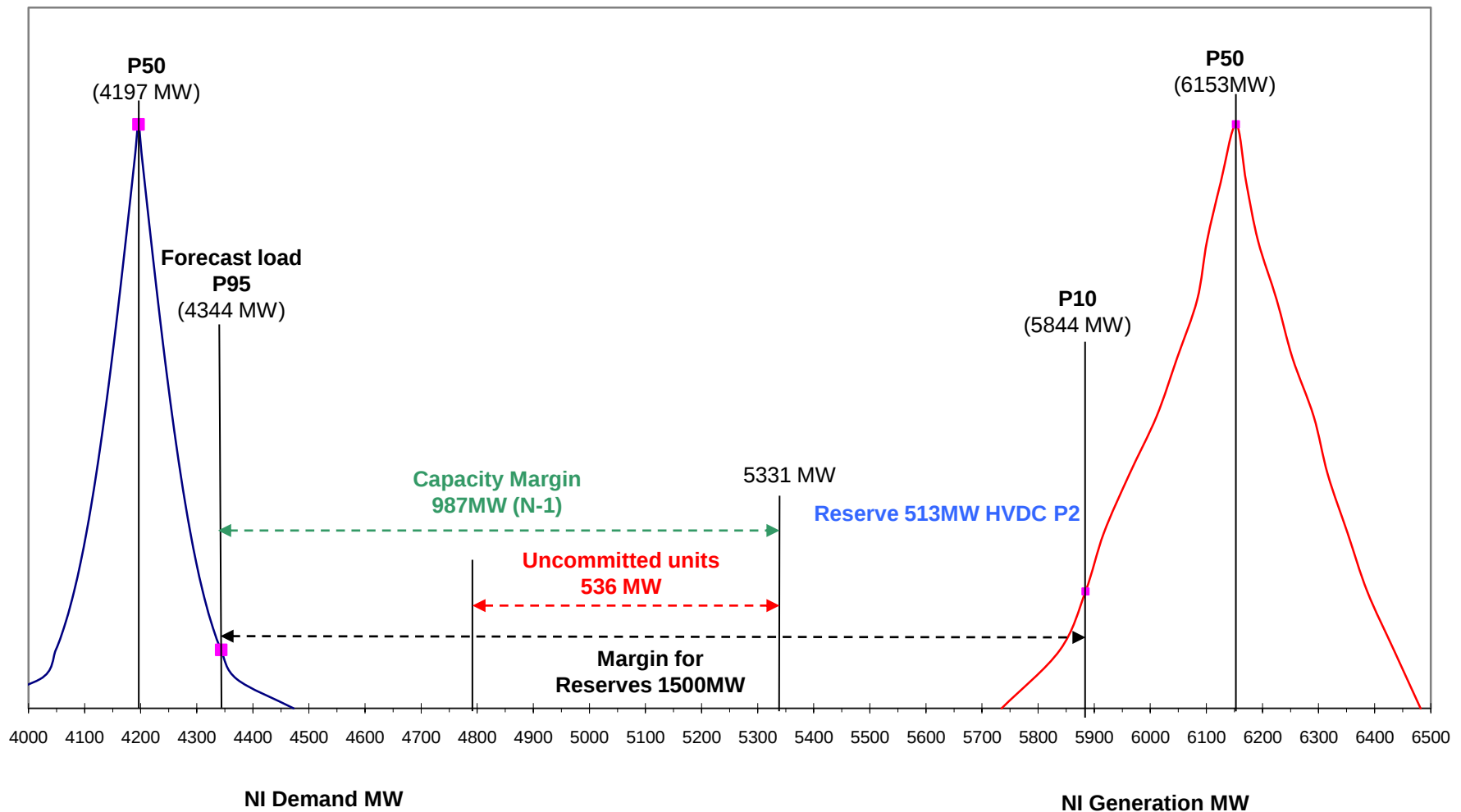


Industry Steering Group



RWC 2011 – Generation & Demand

North Island Demand and Generation Balance for RWC 2011 Sept - Oct
7th February 2011 update. 2010 Peak Demand + 2.5%, + SFD 200MW + HVDC P1 Available



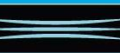
Planning

- Transpower Planning
 - Network overview document prepared
 - Regional plans being developed
 - System Operator working with generators
 - Operational measures developed and issued
 - Impact of Christchurch games movement has been taken into account



Operational Measures

- Planned work restrictions
- Operate with all network assets in service
- Work restrictions during matches
 - On Final, Semi and Quarter finals, no work at any substation or on any line
 - Regional restrictions for regional matches
- Expect sufficient generation to meet demand allowing for loss of a major generator



Maintenance work restrictions

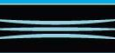
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Region	Venue																														
Auckland / Whangarei	Eden park						ENG V SCO 20:30							QF2 20:30	QF4 20:30						SF1 21:00	SF2 21:00					Bronze 20:30		Final 21:00		
	North Harbour Stadium (NHS)					SA V SAM 20:30																									
	Northland Events Centre (NEC)																														
Northland / Auckland																															
Hamilton / Rotorua	Waikato Stadium						WAL v FIJ 18:00																								
	Rotorua International Stadium (RIS)																														
Hamilton / Rotorua																															
New Plymouth	Stadium Taranaki	WAL v NAM 19:30																													
Napier	McLean Park		CAN v JAP 17:00																												
Palmerston North/ Wellington	Area Manawatu (AM)			GEO v ROM 19:30				ARG v GEO 13:00																							
	Wellington Regional Stadium (WRS)						FRA v TON 18:00	NZ v CAN 15:30						QF1 18:00	QF3 18:00																
Palmerston North/ Wellington																															
Nelson	Trafalgar Park		ITA v USA 19:30				AUS v RUS 15:30																								
Dunedin	Otago Stadium							IRL v ITA 20:30																							
Invercargill	Rugby Park Stadium																														
Nationwide or regional restriction																															

	Nationwide restriction
	Regional restriction



Major Projects

- HVDC Pole 1 decommissioning delayed
- Only works in non critical areas
- No road trenching works in Auckland city
- Impact of RWC2011 factored into project delivery



Result

