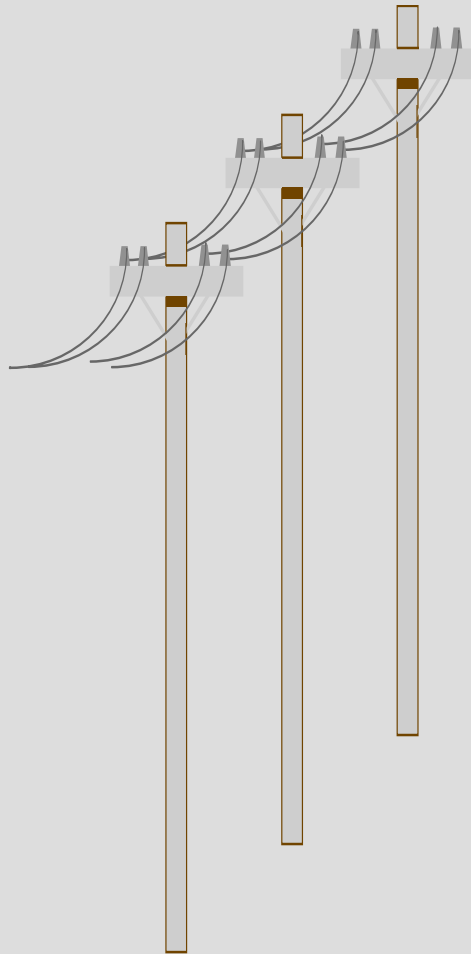


Aurora





Lower South Island Stakeholders Group

Oct 2008

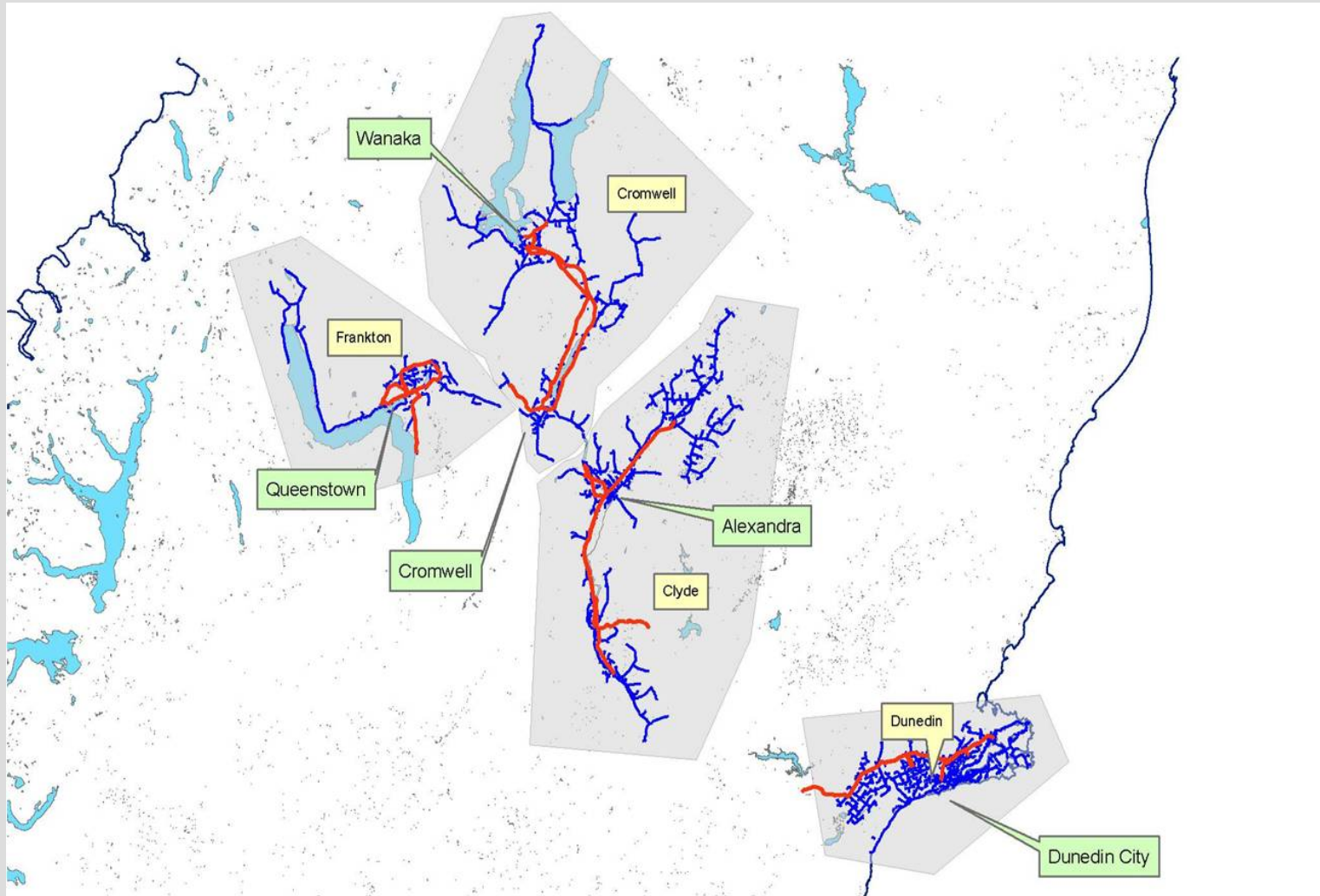
Lindsay McLennan
DELTA

Aurora website - www.electricity.co.nz

Session

- First Session
 - Network areas
 - Reliability
 - User pays line pricing
- Later
 - AMP
 - Demand growth
 - Capital Development

Aurora Network Areas



Key Parameters

- No of Connections 80,000
- Peak System Load (controlled) 290 MW
- Est of Controlled Load at peak 50 MW
- Length of Line & Cables 5,450 km
- Zone Substations 33/11kV 36
- Distribution Substations 6,350
- Replacement Cost \$450 +million

STAKEHOLDERS

| | |
|--|---|
| Contractors who provide services to Aurora | Contractual relationships Safe working environment |
| Electrical Contractors who work for consumers and developers | New connection policies Maintenance and upgrade policies |
| Electricity Consumers | Line Charges – network reliability / service New connection policies |
| Electricity Retailers, and embedded generators | Line Charges – network reliability / service |
| Employees | Health & safety |
| Government – MED, Commerce Commission | Compliance with statutory & regulatory Economic efficiency |
| Land Owners with network facilities on their land | Access for maintenance work Safety – easement conditions |
| Territorial Authority | Minimise environmental impacts Local economic development |
| Property Developers | New connection policies Timely network expansion |
| Shareholder | Adequate stable return on investment Good corporate citizen |

Consumer Feedback

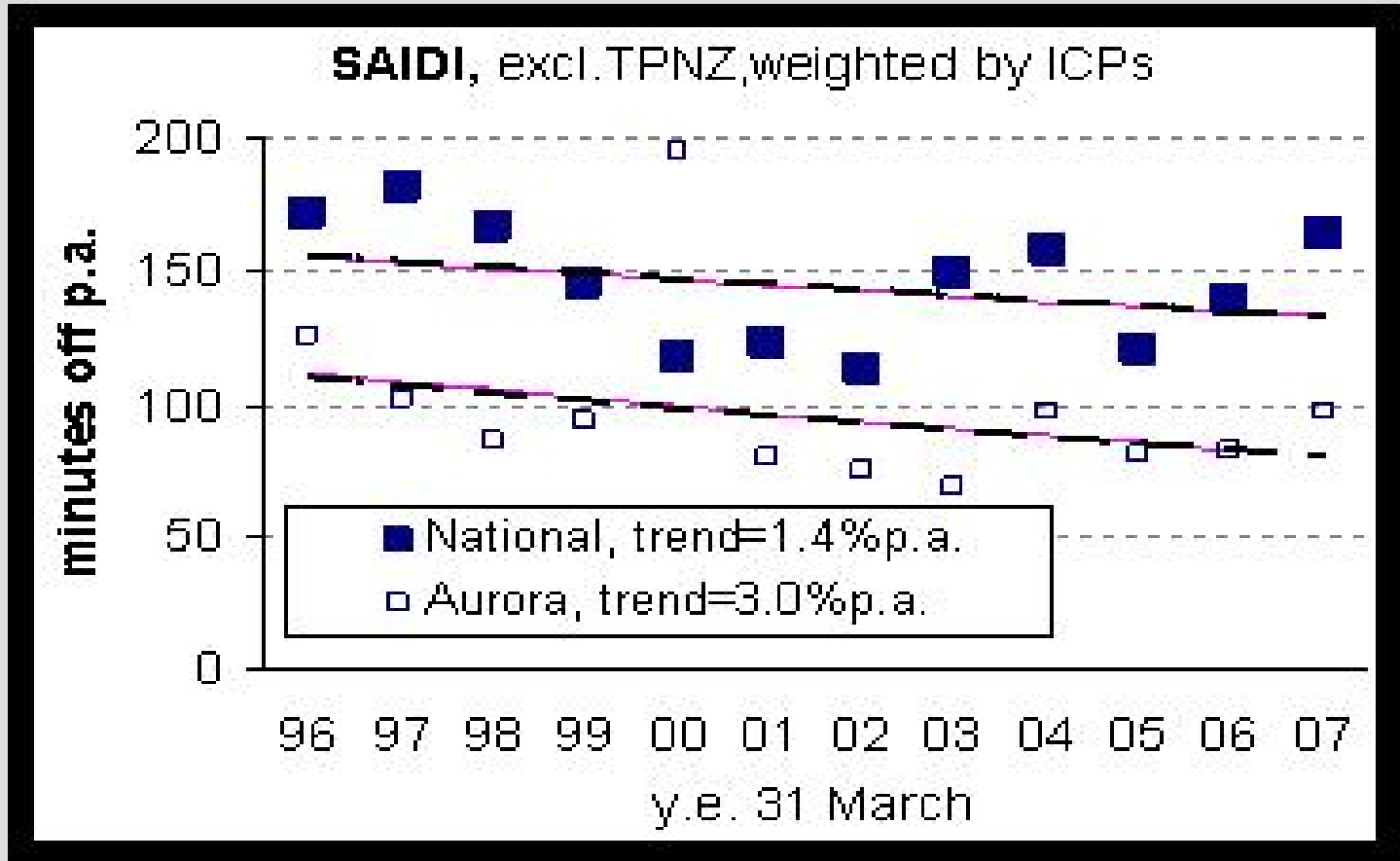
- Continuous Monthly Survey on Reliability
- Annual detailed telephone survey on reliability and price / quality tradeoffs
- Feedback from consumers and retailers after faults

Underlying Reliability - SAIDI

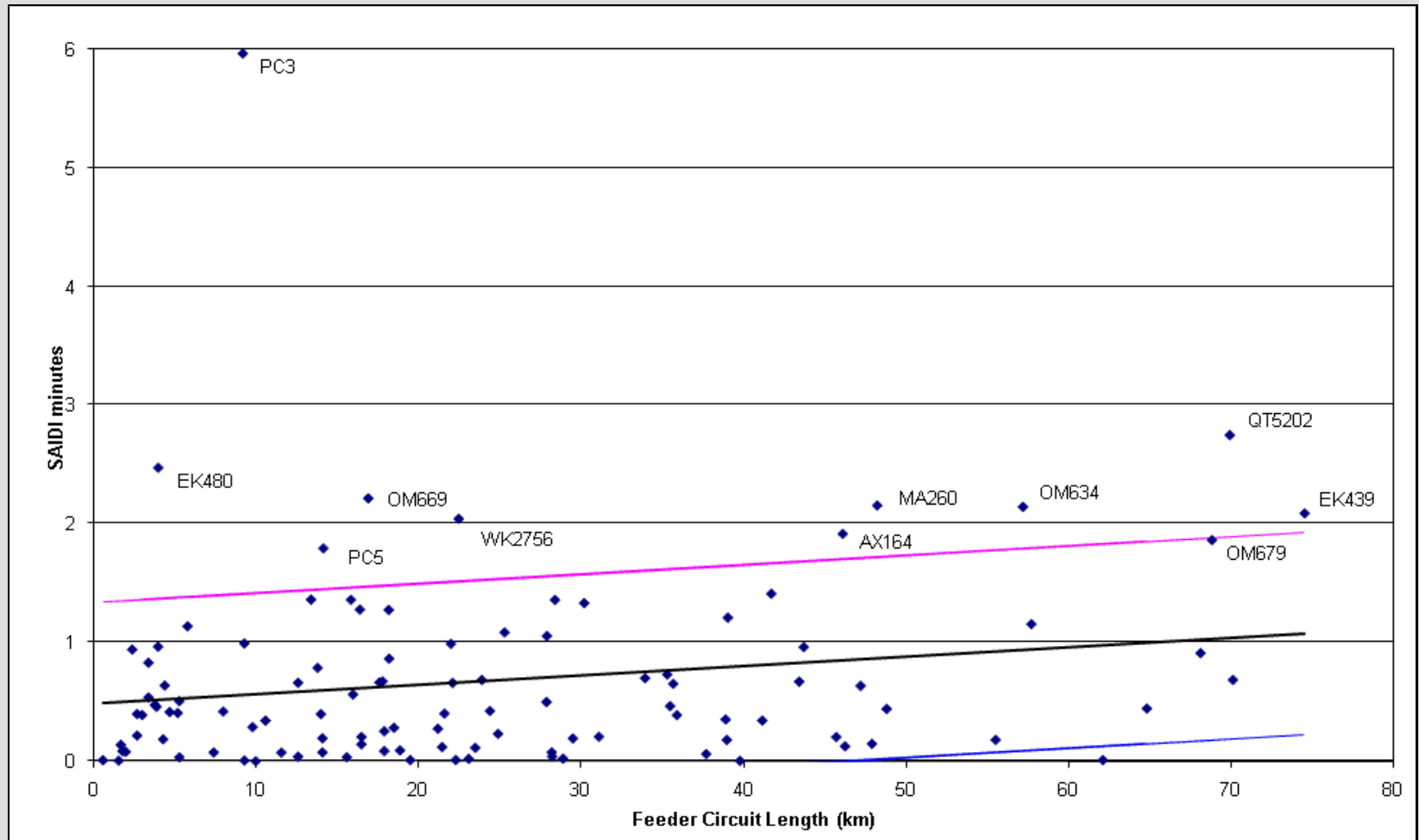
| Period End 31 March | 2003/04 | 2004/05 | 2005/06 | 2006/07 | 2007/08 |
|-------------------------|-------------|-------------|-------------|--------------|--------------|
| Unplanned | | | | | |
| Underlying | 56.6 | 67.8 | 70.8 | 61.3 | 55.3 |
| Significant Events | 23.4 | 5.4 | 0 | 22.3 | 60.7 |
| Transpower | 1.0 | 0.0 | 13.9 | 4.7 | 11.0 |
| Total Unplanned | 81.0 | 73.2 | 84.7 | 88.2 | 127.0 |
| Planned | | | | | |
| Underlying | 16.3 | 7.3 | 11.7 | 13.2 | 13.3 |
| Total | | | | | |
| Underlying | 72.9 | 75.1 | 82.5 | 74.5 | 68.6 |
| Significant Events | 23.4 | 5.4 | 0 | 22.2 | 60.7 |
| Transpower | 1.0 | 0.0 | 13.9 | 4.7 | 11.0 |
| Disclosure Total | 97.3 | 80.5 | 96.4 | 101.4 | 140.3 |
| Other (LV etc) | 0.1 | 0.9 | 0.5 | 0.5 | 1.4 |
| Overall Total | 97.4 | 81.4 | 96.9 | 101.9 | 141.7 |

Wanaka
66kV Lines
down 140kph
wind- Aug
07

Reliability Trends



HV Feeder Reliability by Circuit Length

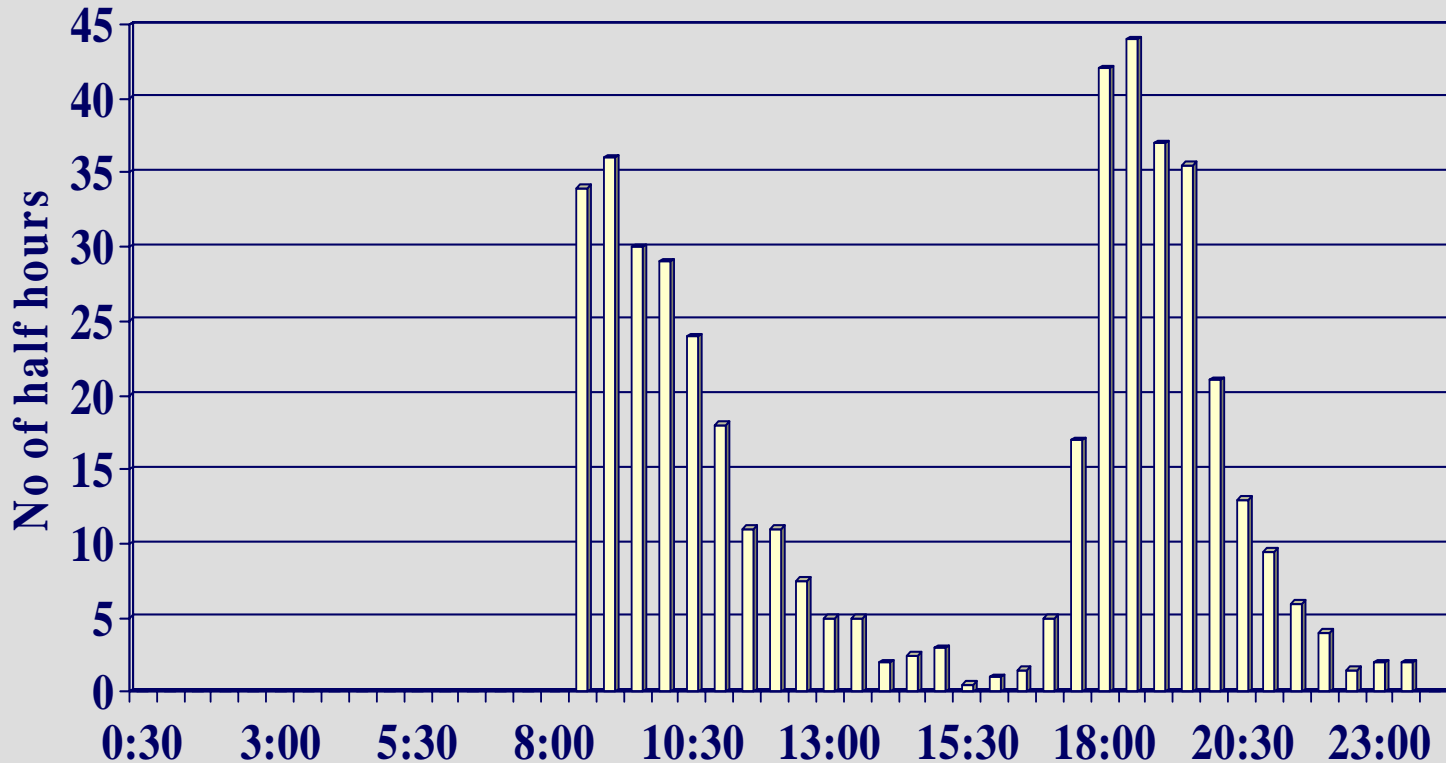


Pricing – Strong User Pays

- 50% of Line Charge revenue when network highly loaded during 200 hours peak demands
- Congestion Period Signal sent via ripple control - isolated relay contact can be used by consumer to
 - operate a warning device
 - input into a load management system
 - directly control deferrable load
 - start up a standby generator
- See www.electricity.co.nz/site/dms_congestion.asp for forecasts of congestion periods

Typical CPD hours

May, June, July & August



End of First Session

Questions

