

Electricity Line Business 2023 Information Disclosure Compendium

Information Disclosure Compendium

January 2024

ISSN 1175 8627





1. Introduction

We are pleased
to release our
2023 Electricity
Line Business
Information Disclosure
Compendium.

This document summarises the information disclosures of New Zealand's electricity line businesses for the year ended 31 March 2023, prepared pursuant to the Electricity Distribution Information Disclosure Determination 2012 (consolidated as at July 2023) (Decision No. NZCC 12) (the IDD).

An index of tables included in this Compendium is contained in section 17 and a glossary of technical terms is contained in Section 18. Members of PwC's Energy Team are profiled in Section 19.

The accuracy of the disclosure information in this document has not been verified with each source company.

This report is not intended to represent industry analysis by PwC and shouldn't be construed as such. We haven't sought to analyse the information disclosures of each line business, other than deriving simple ratios using disclosed information as inputs. The accuracy of the ratios calculated by individual line businesses for their disclosures have not been verified. While we have taken every care to ensure all data has been correctly translated from individual Company disclosures, we accept no responsibility for the accuracy of the information published herein, and accept no liability to any person or persons for any errors or omissions.



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Disclaimer

The Electricity Line Business 2023 Information Disclosure Compendium is intended as a guide only. Readers are advised that before acting on any matter referred to in the Compendium they should consult a PwC advisor.

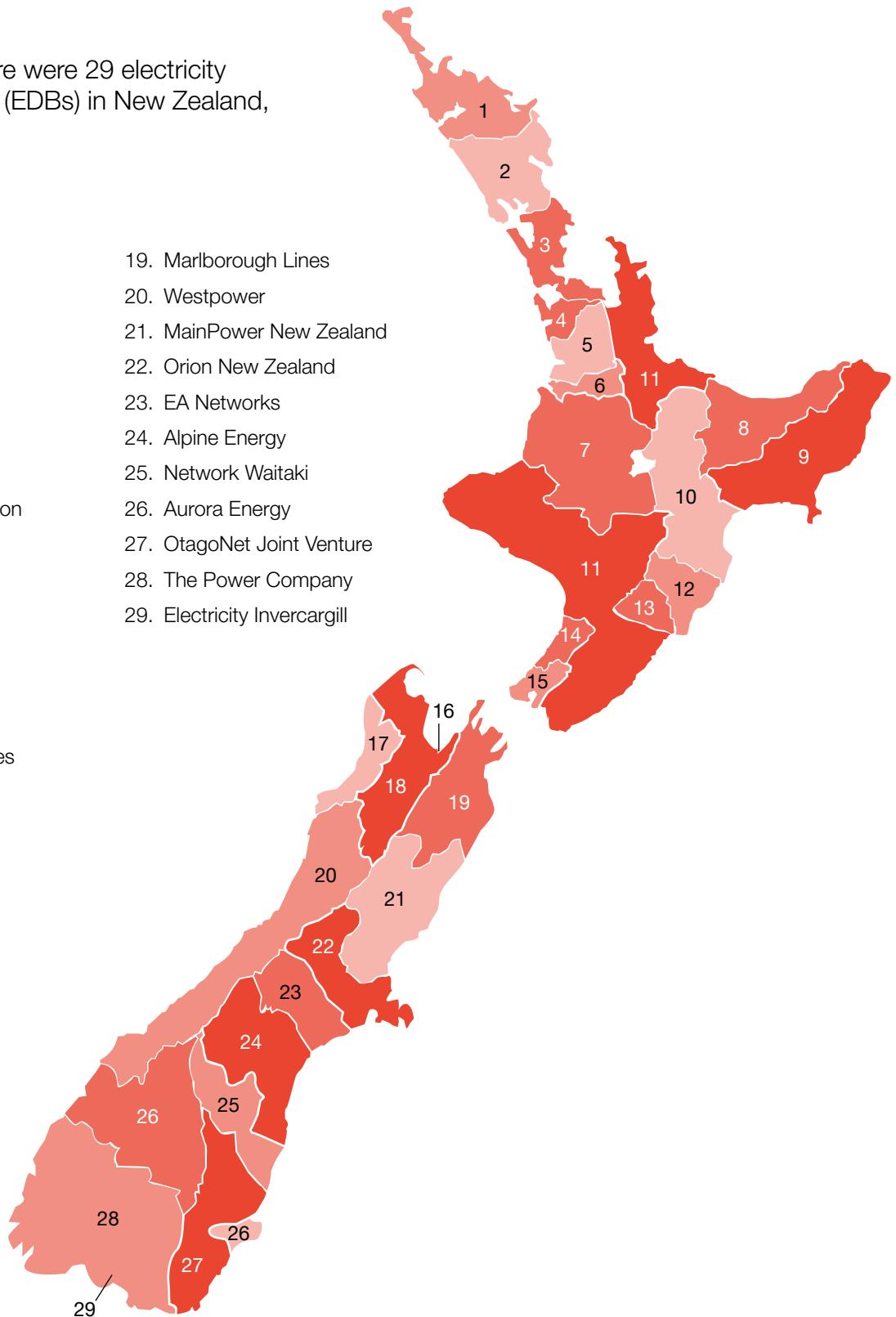
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2. Electricity industry updates

At 31 March 2023, there were 29 electricity distribution businesses (EDBs) in New Zealand, located as follows:

Company

- | | |
|------------------------------------|------------------------------|
| 1. Top Energy | 19. Marlborough Lines |
| 2. Northpower | 20. Westpower |
| 3. Vector | 21. MainPower New Zealand |
| 4. Counties Energy | 22. Orion New Zealand |
| 5. WEL Networks | 23. EA Networks |
| 6. Waipa Networks | 24. Alpine Energy |
| 7. The Lines Company | 25. Network Waitaki |
| 8. Horizon Energy Distribution | 26. Aurora Energy |
| 9. Firstlight Network ¹ | 27. OtagoNet Joint Venture |
| 10. Unison Networks | 28. The Power Company |
| 11. Powerco | 29. Electricity Invercargill |
| 12. Centralines | |
| 13. Scanpower | |
| 14. Electra | |
| 15. Wellington Electricity Lines | |
| 16. Nelson Electricity | |
| 17. Buller Electricity | |
| 18. Network Tasman | |



¹ Eastland Network was renamed Firstlight Network on 31 March 2023

Electricity lines regulation

Regulatory Settings – Part 4 of the Commerce Act

Electricity line businesses, as natural monopolies, are subject to economic regulation under Part 4 of the Commerce Act 1986 (the Act). The purpose of Part 4 is to promote the long-term benefit of consumers, in markets where there is little or no competition and little or no likelihood of a substantial increase in competition, by promoting outcomes that are consistent with outcomes produced in competitive markets.

Since Part 4 was enacted in 2008, the Commerce Commission (the Commission) has developed and updated a series of regulations made under Part 4. This section discusses the key Part 4 regulations that apply to electricity line businesses and highlights recent events relevant to these regulations.

Input Methodologies

Input methodologies (IMs) are the regulatory methodologies, rules, processes, requirements and evaluation criteria that underpin Part 4 regulation. The Act requires the Commission to set these up front so that regulated businesses know what rules will apply to them.

IMs are set for each type of regulation that applies to each regulated sector (including electricity distribution and transmission services, gas pipeline services, fixed fibre lines access services² and designated airport services). Electricity Distribution Businesses (EDBs) are subject to Information Disclosure (ID) regulation, Default Price-Quality Path (DPP) regulation and Customised Price-Quality Path (CPP) regulation. The IMs that apply to these EDB regulations are as follows:

- For ID, IMs have been determined for cost allocation, asset valuation, treatment of taxation, and cost of capital.
- For DPPs, IMs have been determined for cost allocation, asset valuation, treatment of taxation, and cost of capital and when a DPP may be re-considered.

- For DPPs and CPPs, IMs have been determined for the specification of price including the revenue cap wash up, treatment of amalgamations and an incremental rolling incentive scheme for opex and capex. These IMs include provisions for pass-through and recoverable costs, which are costs that EDBs are permitted to pass on directly to consumers because they are either not under the control of EDBs (eg rates or transmission charges) or deliver financial incentives for performance improvements or wash-ups of allowances in previous years.
- For CPPs, IMs have been determined for CPP processes and rules (including contents of a CPP proposal and application, Commission's assessment criteria, consumer consultation, verification/audit, and reconsideration of a CPP), and determination of customised price-quality paths (including allowable revenue, cost allocation, asset valuation, treatment of taxation and cost of capital).

The IMs were first determined in 2010 and must be reviewed at least every 7 years to ensure they remain fit for purpose. A full review of the IMs (IM Review) was undertaken in 2023.

The 2023 review began in February 2022, with a notice of intention setting out the high level process and timeframes for the review.

The Commission released the Draft Amendment Determination in June 2023, received submissions in July, and cross-submissions in August. Final decisions were published in December.

The 2023 IM Review focussed on the following topics:

1. Financing and incentivising efficient expenditure during the energy transition
2. Cost of capital
3. CPPs and in-period adjustments to price-quality paths
4. Transpower investments.

Default Price-Quality Paths

Price-quality regulation is intended to limit the prices that regulated businesses can charge while requiring the quality of services that are provided to be maintained. DPPs apply to most non-exempt EDBs and are intended to provide a relatively low-cost form of regulation.

The DPP involves a price path set in advance for a five-year period, based on forecast expenditure allowances. Minimum quality standards are also set for reliability metrics. This framework provides incentives for EDBs to make cost efficiencies over time, while delivering a minimum service level for consumers. There are also explicit incentives which encourage improved reliability performance above the minimum standards.

The current DPP came into effect on 1 April 2020 and will end on 31 March 2025. This is the third DPP that has applied to EDBs.

During the 2023 assessment period, the DPP did not apply to Powerco or Aurora Energy, as they were subject to CPPs. Powerco transitioned to a two-year DPP on 1 April 2023.

As part of the IM Review, the Commission considered how to forecast expenditure for setting price-quality paths for EDBs, due to increasing electrification in the economy. Although the Commission's approach to forecasting capital and operating expenditure is not set out in the IMs, revised approaches to expenditure allowances have implications for IMs – for instance, the circumstances when price-quality paths may be reopened.

² Fixed fibre lines access services are regulated under Part 6 of the Telecommunications Act 2001

Customised price-quality paths

EDBs can apply for a CPP to better meet their individual circumstances. CPPs allow for the recovery from customers of additional expenditure over and above that allowed for under the DPP and for modified quality standards.

Powerco's and Aurora Energy's CPPs apply for five years, from 1 April 2018 to 31 March 2023 and from 1 April 2021 to 31 March 2026, respectively.

Compliance with price-quality paths

All non-exempt EDBs have reported on their compliance with the price-quality paths that applied for the year ending 31 March 2023. All non-exempt EDBs complied with their price paths for the 2023 assessment period.

EDBs subject to DPPs and CPPs comply with the price path where forecast revenue from prices is less than or equal to forecast allowable revenues for the assessment period. Thus compliance is assessed at the start of the year, based on forecast revenues at the time prices are set. Any unders or overs at the end of the year are washed up into future allowable revenues.

The quality standards are expressed as SAIDI limits and SAIFI limits for each non-exempt EDB.³

Unplanned SAIDI and SAIFI limits are calculated after normalising for extreme events and including a buffer for normal variation equal to two standard deviations. The normalisation method adopted for the current DPP has a bigger impact than in prior regulatory periods, as it reduces the impact of major events on annual performance assessment. Accordingly, a major event standard has been introduced, along with additional reporting requirements for major events. Compliance with the unplanned quality standards is assessed annually.

Planned SAIDI and SAIFI limits are calculated as an accumulated limit over the five year regulatory period and are set at three times the historical average for each EDB.

Planned interruptions quality standards

| | Accumulated Planned SAIDI Limit | Planned SAIDI Assess 2021 - 2023 | Accumulated Planned SAIFI Limit | Planned SAIFI Assess 2021 - 2023 |
|---------------------------------|---------------------------------------|--|---------------------------------------|--|
| Alpine Energy | 824.9 | 235.3 | 3.49 | 0.83 |
| EA Networks | 1,376.1 | 328.2 | 4.89 | 1.14 |
| Electricity Invercargill | 114.5 | 44.2 | 0.52 | 0.27 |
| Firstlight Network | 1,290.7 | 581.2 | 7.47 | 3.82 |
| Horizon Energy Distribution | 858.6 | 169.6 | 5.44 | 1.10 |
| Nelson Electricity | 180.1 | 39.6 | 2.37 | 0.25 |
| Network Tasman | 1,129.1 | 336.2 | 4.90 | 1.09 |
| Orion New Zealand | 198.4 | 73.8 | 0.75 | 0.24 |
| OtagoNet Joint Venture | 2,114.4 | 462.4 | 9.62 | 2.36 |
| The Lines Company | 1,331.7 | 315.5 | 8.75 | 1.63 |
| Top Energy | 1,905.4 | 310.0 | 7.75 | 2.49 |
| Unison Networks | 625.8 | 191.5 | 4.46 | 1.64 |
| Vector | 585.4 | 130.9 | 2.88 | 0.87 |
| Wellington Electricity Lines | 55.8 | 17.0 | 0.44 | 0.13 |

| | Accumulated Planned SAIDI Limit | Planned SAIDI Assess 2022-2023 | Accumulated Planned SAIFI Limit | Planned SAIFI Assess 2022-2023 |
|----------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| Aurora Energy ⁴ | 979.8 | 234.8 | 5.54 | 1.43 |

| | Accumulated Planned SAIDI Limit | Planned SAIDI Assess 2019-2023 | Accumulated Planned SAIFI Limit | Planned SAIFI Assess 2019-2023 | Exceeds 2/3 year test |
|----------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------|
| Powerco ⁵ | 454.7 | 432.8 | 1.94 | 1.93 | No |

³ SAIDI and SAIFI measure the average duration and frequency of electricity outages.

⁴ Aurora Energy's accumulated planned SAIDI and SAIFI limits apply for the regulatory period 1 April 2021 to 31 March 2026. Aurora Energy's unplanned SAIDI and SAIFI limits apply for the 2023 assessment period.

⁵ Powerco's CPP specifies that Powerco must comply with the annual planned and unplanned interruptions reliability assessment every two out of three years, and the accumulated planned limits for the five year CPP period.

Unplanned interruptions quality standards

| | Unplanned SAIDI Limit | Unplanned SAIDI Assess 2023 | Exceed Unplanned SAIDI Limit | Unplanned SAIFI Limit | Unplanned SAIFI Assess 2023 | Exceed Unplanned SAIFI Limit |
|------------------------------|-----------------------|-----------------------------|------------------------------|-----------------------|-----------------------------|------------------------------|
| Alpine Energy | 124.7 | 92.9 | No | 1.20 | 0.83 | No |
| EA Networks | 92.0 | 63.4 | No | 1.28 | 1.19 | No |
| Electricity Invercargill | 25.9 | 17.8 | No | 0.70 | 0.24 | No |
| Firstlight Network | 219.5 | 295.4 | Yes | 3.15 | 2.64 | No |
| Horizon Energy Distribution | 194.5 | 159.8 | No | 2.39 | 2.01 | No |
| Nelson Electricity | 19.6 | 6.2 | No | 0.43 | 0.11 | No |
| Network Tasman | 101.0 | 72.0 | No | 1.20 | 0.74 | No |
| Orion New Zealand | 84.7 | 43.4 | No | 1.03 | 0.51 | No |
| OtagoNet Joint Venture | 160.4 | 143.8 | No | 2.42 | 1.77 | No |
| The Lines Company | 181.5 | 238.9 | Yes | 3.27 | 3.44 | Yes |
| Top Energy | 380.2 | 514.0 | Yes | 5.07 | 5.50 | Yes |
| Unison Networks | 82.3 | 76.0 | No | 1.82 | 1.43 | No |
| Vector | 104.8 | 118.7 | Yes | 1.34 | 1.19 | No |
| Wellington Electricity Lines | 39.8 | 34.9 | No | 0.61 | 0.50 | No |

| | Unplanned SAIDI Limit | Unplanned SAIDI Assess 2023 | Exceed Unplanned SAIDI Limit | Unplanned SAIFI Limit | Unplanned SAIFI Assess 2023 | Exceed Unplanned SAIFI Limit |
|----------------------------|-----------------------|-----------------------------|------------------------------|-----------------------|-----------------------------|------------------------------|
| Aurora Energy ⁴ | 124.9 | 106.5 | No | 2.07 | 1.75 | No |

| | Unplanned SAIDI Limit | Unplanned SAIDI Assess 2023 | Exceed Unplanned SAIDI Limit | Unplanned SAIFI Limit | Unplanned SAIFI Assess 2023 | Exceed Unplanned SAIFI Limit |
|----------------------|-----------------------|-----------------------------|------------------------------|-----------------------|-----------------------------|------------------------------|
| Powerco ⁵ | 175.9 | 230.2 | Yes | 2.19 | 2.23 | Yes |

Businesses that are exempt from price-quality paths

As suppliers of electricity lines services, an EDB that meets the ‘consumer-owned’ criteria set out in section 54D of the Commerce Act is exempt from default and customised price-quality regulation. Thirteen EDBs met the consumer-owned criteria as at 31 March 2023. Accordingly, the following EDBs are currently exempt from price-quality regulation, but remain subject to information disclosure regulation:

- Buller Electricity Limited
- Centralines Limited
- Counties Energy Limited
- Electra Limited
- Mainpower New Zealand Limited
- Marlborough Lines Limited
- Network Waitaki Limited
- Northpower Limited
- Scanpower Limited
- The Power Company Limited
- Waipa Networks Limited
- WEL Networks Limited
- Westpower Limited.

Information Disclosure

ID regulation is intended to ensure that sufficient information is readily available to interested persons to assess whether the purpose of Part 4 is being met. The Information Disclosure Determination (IDD) that applies to EDBs, which was first introduced in 2012, require EDBs to disclose a substantial quantity of historical and forecast financial and network information on an annual basis.

This Compendium incorporates information disclosed in accordance with the IDD.

The Commission has a role to monitor the information disclosed by EDBs under Part 4, including to undertake summary and analysis of disclosures. As part of this role, the Commission publishes ‘dashboards’ of key disclosure information for each EDB, including five-year trends for some items. This summary and analysis is intended to promote greater understanding of the performance of individual EDBs, their relative performance, and changes in performance over time.

The IDD is consistent with the input methodologies and other requirements of Part 4 of the Commerce Act relevant to information disclosure regulation.

The IDD includes four key sets of information comprising: financial, pricing and contract, non-financial, and asset management information, as set out on page 11. Much of the quantitative information is disclosed via spreadsheet templates. It is this information which forms the basis of this Compendium.

The Commission is undertaking a targeted ID review. This review was initially planned to be carried out in two tranches. After completing Tranche 1, the Commission considered that the work on amending the ID requirements would become an ongoing process and did not proceed with its plans for Tranche 2.

The Commission published its final decision on Tranche 1 in November 2022. This included the following changes to ID requirements:

- Quality of service: Refined reporting requirements on quality of service to improve the accuracy of information and to capture different dimensions of quality
- Decarbonisation: Expanded reporting requirements to capture more information on innovation and managing new network connections
- Asset management: Refined reporting requirements on asset management to capture more comprehensive and consistent information on EDB practices and capability.

These changes to the ID requirements are being implemented in a staged process. EDBs must first report against them between April 2023 and August 2024.

In August 2023 the Commission published its Targeted Information Disclosure Review (TIDR) (2024) draft decision. The decision included the following proposed changes to the ID requirements:

- Decarbonisation: Expanded reporting requirements to capture more information on network constraints, non-traditional solutions, and pricing
- Asset management: Refined reporting requirements on vegetation management to capture more information on EDB practices and capability
- Quality of service: Extended reporting requirements on quality of service to capture more granular information on quality and reliability of EDB services
- Other: Improved definitions and updated assurance standards.

The Commission expects to release its TIDR (2024) final decision in early 2024. Changes will come into effect across the FY24 and FY25 disclosure years.

List of IDD disclosure requirements

Financial disclosures include:

- Simple analytical ratios (clause 2.3.1(1)(a))
- Return on investment and regulatory profit statement (clause 2.3.1(1)(b)-(c))
- Regulatory asset base, including by asset category, and roll forward component (ie depreciation, commissioned assets, disposals, revaluations) (clause 2.3.1(1)(d))
- Regulatory tax allowance, including data relevant to its derivation (ie deferred tax, regulatory tax asset values) (clause 2.3.1(1)(e))
- Related party transactions (clause 2.3.1(1)(f), 2.3.8 and 2.3.10 – 2.3.13)
- Capital expenditure and operating expenditure disaggregated by expenditure category, including expenditure forecasts (clause 2.3.1(1)(j)-(l) and 2.6.6(1)(a)-(b))
- Allocations of opex and assets to the regulated business (clause 2.3.1(1)(h)-(i) and 2.3.2)
- Supporting commentary (clause 2.7)
- Supporting auditor and independent appraiser reports, and director certification (clauses 2.8.1, 2.8.2 and 2.9).

Pricing and contract disclosures include:

- Price schedules (clause 2.4.18 – 2.4.20)
- Billed quantities and revenues by consumer group and price category code (clause 2.4.21)
- Pricing methodologies and capital contribution policies (clause 2.4.1 and 2.4.6)
- Terms and conditions of prescribed contracts (clause 2.4.9 – 2.4.17)
- Financial distributions to trusts (clause 2.4.23).

Non-financial disclosures include:

- Asset quantities by asset category, asset class and age (clause 2.5.1(1)(a)-(b))
- Circuit length, disaggregated into various categories (clause 2.5.1(1)(c))
- Embedded networks (clause 2.5.1(1)(d))
- Electricity volumes, demand, customer connections and other network characteristics (clause 2.5.1(1)(e))
- Interruptions, by cause and asset category (clause 2.5.1(1)(f)).

Asset management disclosures include:

- Asset management plans (clause 2.6.1)
- Asset condition (clause 2.6.6(1)(c))
- Forecast capacity, connections, demand and interruptions (clause 2.6.6(1)(d)-(f))
- Self-assessment by each EDB of their asset management maturity (clause 2.6.1(2)).



3. Electricity distribution industry profile

Network Characteristics

Definitions

| | |
|---|---|
| Total Circuit Length = | Length of all lines and cables with the exception of services, street lighting, and private lines |
| Number of Connections = | The number of points of connection to supply electricity to a consumer, as represented by unique ICP identifiers having a status of active or inactive recorded on the registry in accordance with the Electricity Industry Participation Code 2010 |
| Energy Delivered to ICPs = | The volume of electricity supplied to connection points, as measured at connection points |
| Demand on System for Supply to Consumers' Connection Points = | GXP Demand + Distributed Generation Output at HV and Above – Net Transfers to (from) Other EDBs at HV and Above |
| Total Distribution Transformer Capacity = | The sum of the capacities of all distribution transformers (both EDB and non-EDB owned) (MVA) |
| Proportion of Circuit Length Underground = | <hr/> $\frac{\text{Length of All Circuits Installed as Underground Cables (km)}}{\text{Total Circuit Length (km)}}$ |
| Load Factor = | <hr/> $\frac{\text{Electricity Entering System for Supply to Connection Points (MWh)}}{\text{Demand on the Supply to Points} \times \text{Number of Hours in the Disclosure Year (MWh)}}$ |
| Zone Substation Transformer Capacity Utilisation = | <hr/> $\frac{\text{Maximum Coincident System Demand}}{\text{Zone Substation Transformer Capacity}}$ |
| Loss Ratio = | <hr/> $\frac{\text{Electricity Entering System for Supply to Consumers' Connection Points} - \text{Energy Delivered to ICPs (GWh)}}{\text{Electricity Entering System for Supply to Consumers' Connection (GWh)}}$ |
| Interruptions per 100 Circuit km = | The cessation of supply of electricity lines services to a consumer for a period of 1 minute or longer (other than by reason of disconnection of that consumer) per 100 circuit kms |

Network characteristics

| | Total Circuit Length km | Number of Connections ICP | Energy Delivered to ICPs GWh | Demand on System for Supply to Consumers' Connection Points MW | Total Distribution Transformer Capacity MVA |
|------------------------------|----------------------------|---------------------------------|------------------------------------|--|--|
| Alpine Energy | 4,374 | 33,539 | 812 | 142 | 669 |
| Aurora Energy | 6,256 | 94,323 | 1,355 | 309 | 1,025 |
| Buller Electricity | 650 | 4,815 | 49 | 11 | 48 |
| Centralines | 1,864 | 9,212 | 108 | 22 | 118 |
| Counties Energy | 3,545 | 46,963 | 651 | 134 | 502 |
| EA Networks | 3,172 | 20,538 | 564 | 156 | 611 |
| Electra | 2,380 | 46,333 | 429 | 108 | 351 |
| Electricity Invercargill | 665 | 17,562 | 250 | 72 | 158 |
| Firstlight Network | 3,945 | 25,872 | 286 | 65 | 273 |
| Horizon Energy Distribution | 2,624 | 25,179 | 537 | 94 | 354 |
| MainPower New Zealand | 5,198 | 44,109 | 620 | 122 | 599 |
| Marlborough Lines | 3,519 | 26,830 | 390 | 75 | 380 |
| Nelson Electricity | 296 | 9,297 | 135 | 34 | 100 |
| Network Tasman | 3,719 | 42,224 | 654 | 129 | 515 |
| Network Waitaki | 1,908 | 13,344 | 271 | 65 | 244 |
| Northpower | 6,190 | 63,002 | 792 | 157 | 605 |
| Orion New Zealand | 11,907 | 218,227 | 3,377 | 655 | 2,528 |
| OtagoNet Joint Venture | 4,619 | 19,361 | 463 | 73 | 245 |
| Powerco | 29,087 | 356,643 | 4,960 | 974 | 3,716 |
| Scanpower | 1,052 | 6,771 | 77 | 16 | 75 |
| The Lines Company | 4,426 | 24,016 | 365 | 75 | 271 |
| The Power Company | 8,882 | 37,327 | 822 | 160 | 501 |
| Top Energy | 4,228 | 33,740 | 332 | 78 | 298 |
| Unison Networks | 9,334 | 118,448 | 1,679 | 351 | 1,295 |
| Vector | 19,468 | 603,707 | 8,462 | 1,759 | 5,734 |
| Waipa Networks | 2,302 | 29,128 | 420 | 85 | 303 |
| WEL Networks | 5,617 | 98,601 | 1,323 | 281 | 1,020 |
| Wellington Electricity Lines | 4,835 | 173,512 | 2,287 | 538 | 1,526 |
| Westpower | 2,193 | 14,144 | 221 | 39 | 178 |
| Average | 5,457 | 77,820 | 1,127 | 234 | 836 |
| Median | 3,945 | 33,539 | 537 | 108 | 380 |
| Minimum | 296 | 4,815 | 49 | 11 | 48 |
| Maximum | 29,087 | 603,707 | 8,462 | 1,759 | 5,734 |
| Industry Total | 158,256 | 2,256,767 | 32,693 | 6,779 | 24,241 |

Network characteristics continued

| | Proportion of Circuit Length Underground | Load Factor | Zone Substation Transformer Capacity Utilisation | Loss Ratio | Interruptions per 100 Circuit | |
|------------------------------|--|-------------|--|------------|-------------------------------|------|
| | | | | | % | km |
| Alpine Energy | 20.2 | 66.8 | 38.6 | 2.3 | | 25.1 |
| Aurora Energy | 38.7 | 53.1 | 30.6 | 5.5 | | 30.7 |
| Buller Electricity | 9.9 | 57.6 | 20.4 | 7.2 | | 32.0 |
| Centralines | 8.6 | 59.2 | 47.5 | 6.8 | | 19.5 |
| Counties Energy | 35.3 | 58.1 | 24.6 | 4.6 | | 29.6 |
| EA Networks | 24.7 | 44.0 | 47.8 | 6.0 | | 18.4 |
| Electra | 34.6 | 48.2 | 30.2 | 5.9 | | 20.0 |
| Electricity Invercargill | 92.0 | 41.7 | 75.1 | 4.6 | | 7.2 |
| Firstlight Network | 10.6 | 54.5 | 19.4 | 8.3 | | 25.4 |
| Horizon Energy Distribution | 23.6 | 68.4 | 95.8 | 4.6 | | 20.0 |
| MainPower New Zealand | 21.9 | 61.2 | 85.6 | 5.4 | | 25.7 |
| Marlborough Lines | 19.9 | 62.2 | 22.3 | 5.0 | | 20.6 |
| Nelson Electricity | 90.7 | 47.8 | 70.2 | 4.0 | | 2.0 |
| Network Tasman | 28.5 | 61.4 | 40.2 | 5.7 | | 8.9 |
| Network Waitaki | 10.4 | 50.0 | 28.4 | 4.7 | | 22.4 |
| Northpower | 19.0 | 60.7 | 44.5 | 5.4 | | 21.2 |
| Orion New Zealand | 54.9 | 61.4 | 55.5 | 4.1 | | 13.5 |
| OtagoNet Joint Venture | 4.8 | 75.4 | 44.4 | 3.9 | | 21.0 |
| Powerco | 25.4 | 61.2 | 40.3 | 5.1 | | 22.9 |
| Scarpa | 9.5 | 58.1 | - | 7.3 | | 18.8 |
| The Lines Company | 9.2 | 59.6 | 32.2 | 6.5 | | 35.9 |
| The Power Company | 4.6 | 61.7 | 34.4 | 4.9 | | 20.6 |
| Top Energy | 22.8 | 54.3 | 16.3 | 10.4 | | 22.1 |
| Unison Networks | 41.2 | 56.2 | 53.5 | 2.9 | | 20.4 |
| Vector | 57.7 | 57.2 | 37.6 | 4.0 | | 19.6 |
| Waipa Networks | 23.0 | 59.0 | - | 4.8 | | 16.3 |
| WEL Networks | 45.6 | 56.3 | 36.7 | 4.6 | | 24.0 |
| Wellington Electricity Lines | 64.5 | 50.3 | 50.4 | 3.5 | | 10.3 |
| Westpower | 12.6 | 70.2 | 23.5 | 7.9 | | 16.1 |
| Average | 29.8 | 57.8 | 42.4 | 5.4 | | 20.4 |
| Median | 23.0 | 58.1 | 38.6 | 5.0 | | 20.6 |
| Minimum | 4.6 | 41.7 | 16.3 | 2.3 | | 2.0 |
| Maximum | 92.0 | 75.4 | 95.8 | 10.4 | | 35.9 |

Service intensity measures

Definitions

Demand Density =

$$\frac{\text{Maximum Coincident System Demand (kW)}}{\text{Total Circuit Length (km)}}$$

Volume Density =

$$\frac{\text{Total Energy Delivered to ICPs (MWh)}}{\text{Total Circuit Length (km)}}$$

Connection Point Density =

$$\frac{\text{Number of Connections (ICPs)}}{\text{Total Circuit Length (km)}}$$

Energy Intensity =

$$\frac{\text{Total Energy Delivered to ICPs}}{\text{Number of Connections (ICPs)}}$$


Service intensity measures

| | Demand Density | Volume Density | Connection Point Density | Energy Intensity |
|------------------------------|----------------|----------------|--------------------------|------------------|
| | kW/km | MWh/km | ICP/km | kWh/ICP |
| Alpine Energy | 32.5 | 185.7 | 7.7 | 24,215 |
| Aurora Energy | 49.4 | 216.6 | 15.1 | 14,369 |
| Buller Electricity | 16.2 | 75.7 | 7.4 | 10,214 |
| Centralines | 12.0 | 57.8 | 4.9 | 11,706 |
| Counties Energy | 37.8 | 183.5 | 13.2 | 13,857 |
| EA Networks | 49.1 | 177.9 | 6.5 | 27,475 |
| Electra | 45.4 | 180.2 | 19.5 | 9,259 |
| Electricity Invercargill | 105.7 | 375.9 | 26.4 | 14,225 |
| Firstlight Network | 16.6 | 72.6 | 6.6 | 11,068 |
| Horizon Energy Distribution | 35.8 | 204.5 | 9.6 | 21,312 |
| MainPower New Zealand | 23.5 | 119.3 | 8.5 | 14,057 |
| Marlborough Lines | 21.4 | 110.9 | 7.6 | 14,544 |
| Nelson Electricity | 113.8 | 457.8 | 31.4 | 14,570 |
| Network Tasman | 42.8 | 175.8 | 11.4 | 15,481 |
| Network Waitaki | 34.0 | 141.8 | 7.0 | 20,272 |
| Northpower | 25.4 | 127.9 | 10.2 | 12,570 |
| Orion New Zealand | 55.0 | 283.6 | 18.3 | 15,477 |
| OtagoNet Joint Venture | 15.6 | 100.1 | 4.2 | 23,889 |
| Powerco | 33.5 | 170.5 | 12.3 | 13,909 |
| Scanpower | 15.6 | 73.6 | 6.4 | 11,436 |
| The Lines Company | 16.9 | 82.6 | 5.4 | 15,214 |
| The Power Company | 18.2 | 92.6 | 4.2 | 22,035 |
| Top Energy | 18.5 | 78.6 | 8.0 | 9,853 |
| Unison Networks | 37.6 | 179.9 | 12.7 | 14,175 |
| Vector | 90.3 | 434.7 | 31.0 | 14,017 |
| Waipa Networks | 37.0 | 182.3 | 12.7 | 14,409 |
| WEL Networks | 50.0 | 235.5 | 17.6 | 13,416 |
| Wellington Electricity Lines | 111.2 | 473.0 | 35.9 | 13,180 |
| Westpower | 17.8 | 100.8 | 6.4 | 15,630 |
| Average | 40.6 | 184.5 | 12.7 | 15,374 |
| Median | 34.0 | 175.8 | 9.6 | 14,225 |
| Minimum | 12.0 | 57.8 | 4.2 | 9,259 |
| Maximum | 113.8 | 473.0 | 35.9 | 27,475 |

Financial measures

Definitions

| | |
|---------------------------------|---|
| Line Charge Revenue = | Revenue from posted prices (net of posted discounts and gross of discretionary discounts and consumer rebates) |
| Operational Expenditure = | Operating costs that are allocated to electricity distribution services and excluding costs treated as an asset under GAAP, depreciation, tax, subvention payments, revaluations, interest expenses, and pass-through and recoverable costs |
| Capital Expenditure = | Costs incurred in the acquisition or development of an asset that is, or is intended to be, included in the value of assets commissioned in the regulatory asset base |
| Closing Regulatory Asset Base = | The regulatory values of assets used to supply electricity lines services at disclosure year end |

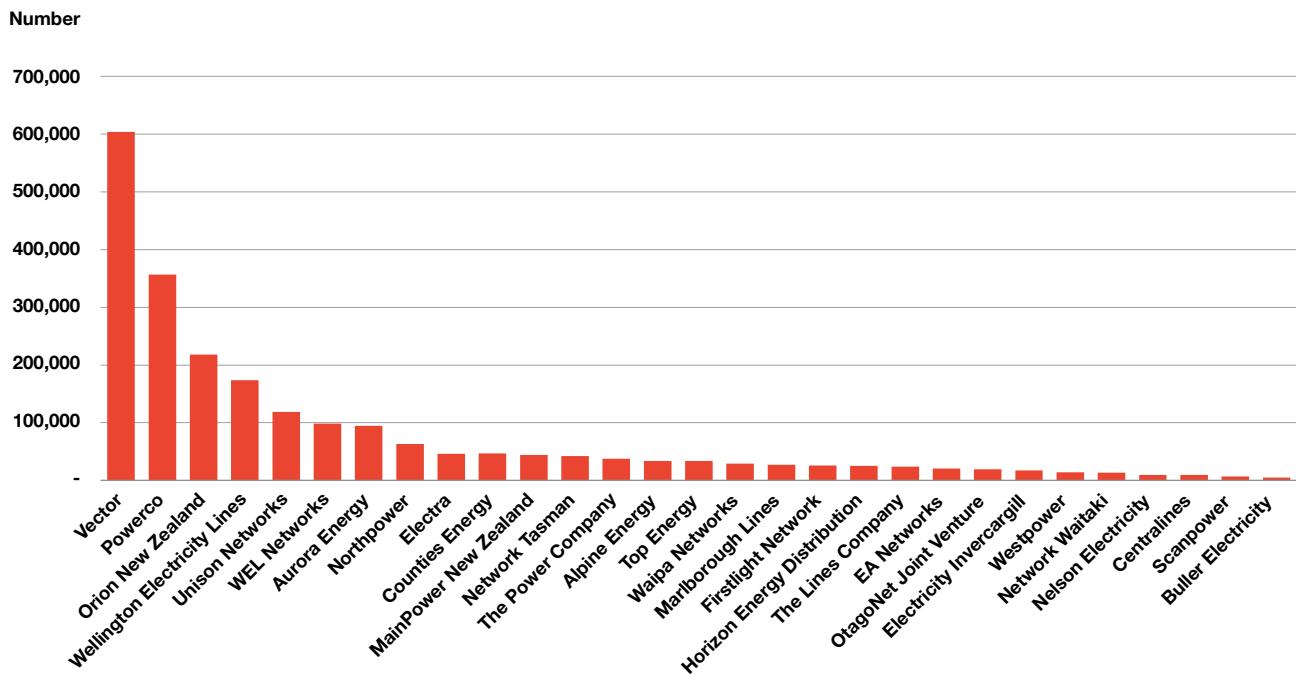


Financial measures

| | Line Charge Revenue \$000 | Operational Expenditure \$000 | Capital Expenditure \$000 | Closing Regulatory Asset Base \$000 |
|------------------------------|---|---|---|---|
| Alpine Energy | 56,404 | 24,894 | 20,674 | 293,278 |
| Aurora Energy | 123,153 | 48,271 | 86,616 | 736,088 |
| Buller Electricity | 7,841 | 4,114 | 2,815 | 35,266 |
| Centralines | 13,759 | 6,346 | 9,698 | 88,898 |
| Counties Energy | 61,787 | 24,472 | 39,072 | 427,054 |
| EA Networks | 41,854 | 15,449 | 12,703 | 343,290 |
| Electra | 41,691 | 17,109 | 13,759 | 241,685 |
| Electricity Invercargill | 18,439 | 5,586 | 4,881 | 107,300 |
| Firstlight Network | 29,963 | 12,894 | 15,224 | 209,446 |
| Horizon Energy Distribution | 32,486 | 11,278 | 7,739 | 161,216 |
| MainPower New Zealand | 55,535 | 20,875 | 22,504 | 306,284 |
| Marlborough Lines | 38,277 | 19,979 | 11,900 | 264,231 |
| Nelson Electricity | 8,576 | 2,351 | 1,818 | 49,284 |
| Network Tasman | 37,891 | 13,000 | 14,615 | 209,789 |
| Network Waitaki | 21,964 | 10,725 | 7,021 | 120,992 |
| Northpower | 65,767 | 36,529 | 22,478 | 353,169 |
| Orion New Zealand | 230,137 | 71,706 | 117,289 | 1,450,079 |
| OtagoNet Joint Venture | 32,674 | 10,030 | 18,085 | 263,617 |
| Powerco | 390,730 | 111,324 | 239,700 | 2,589,537 |
| Scanpower | 8,753 | 3,804 | 3,016 | 53,996 |
| The Lines Company | 42,295 | 15,935 | 12,252 | 263,264 |
| The Power Company | 59,970 | 17,864 | 22,462 | 491,373 |
| Top Energy | 42,287 | 23,749 | 11,833 | 339,121 |
| Unison Networks | 146,080 | 50,436 | 73,426 | 805,807 |
| Vector | 612,823 | 145,942 | 207,179 | 3,891,833 |
| Waipa Networks | 30,730 | 13,522 | 13,851 | 162,242 |
| WEL Networks | 101,687 | 35,879 | 64,632 | 706,476 |
| Wellington Electricity Lines | 157,515 | 36,335 | 42,959 | 803,430 |
| Westpower | 21,685 | 11,345 | 4,349 | 116,341 |
| Average | 87,336 | 28,336 | 38,778 | 547,737 |
| Median | 41,854 | 17,109 | 14,615 | 264,231 |
| Minimum | 7,841 | 2,351 | 1,818 | 35,266 |
| Maximum | 612,823 | 145,942 | 239,700 | 3,891,833 |
| Industry Total | 2,532,751 | 821,744 | 1,124,549 | 15,884,387 |

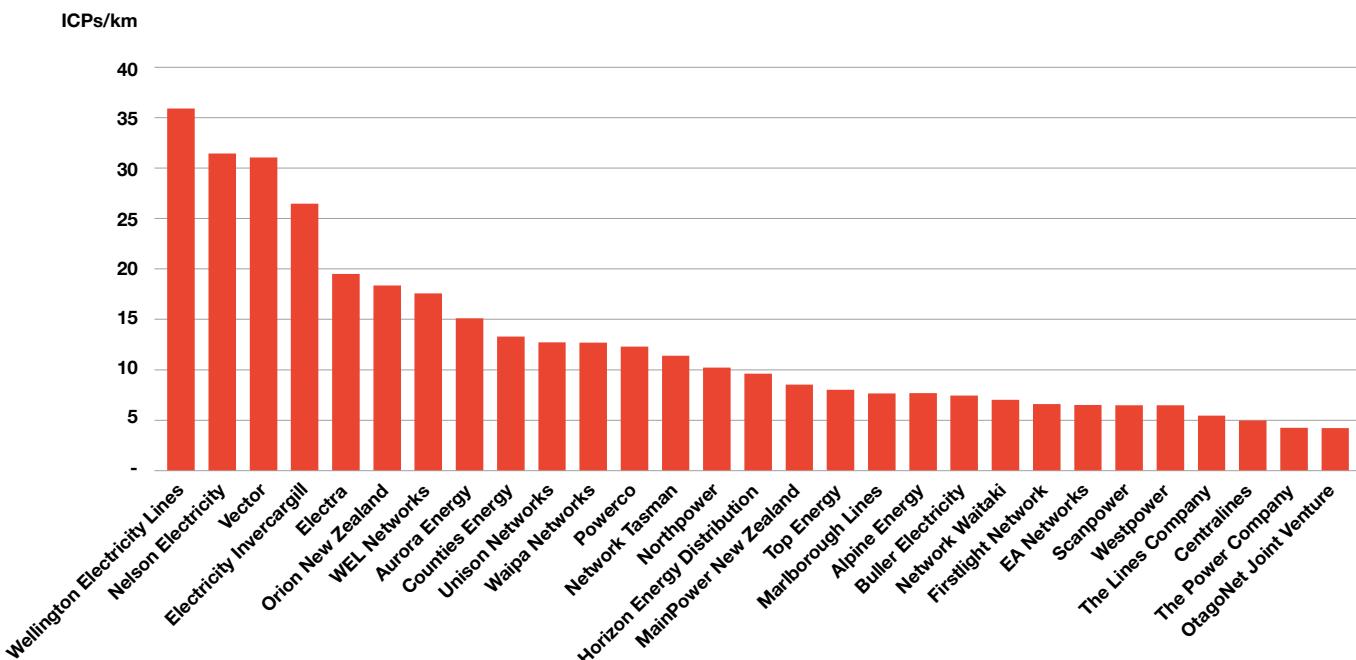
ICPs

The graph below illustrates the spread of ICPs for the electricity distribution sector. The top two distribution businesses accounted for 43% of the total number of connections at 31 March 2023. Vector, the largest distribution business, accounted for 27%.



Connection Point Density

The density graph below reflects the urban/rural nature of electricity distribution networks with 15 of the 29 line businesses with connection point density less than 10 ICPs per kilometre.



4. Ownership

The table below shows the ownership profile of each electricity distribution business at 31 March 2023 and summarises the form of distributions to consumers and shareholders. The method via which distributions to consumers and shareholders are made may impact on the performance measures set out later in this document.

| | Ownership | Distributions to Consumers and Shareholders |
|------------------------------|---|---|
| Alpine Energy | Local Authority/Trust | dividend |
| Aurora Energy | Local Authority | dividend |
| Buller Electricity | Trust | dividend |
| Centralines | Trust | discount/dividend |
| Counties Energy | Trust | discount/dividend |
| EA Networks | Co-operative | discount |
| Electra | Trust | discount/dividend |
| Electricity Invercargill | Local Authority | dividend |
| Firstlight Network | Clarus | dividend |
| Horizon Energy Distribution | Trust | dividend |
| MainPower New Zealand | Trust | rebate |
| Marlborough Lines | Trust | discount/dividend |
| Nelson Electricity | Marlborough Lines/Network Tasman | dividend |
| Network Tasman | Trust | discount/dividend |
| Network Waitaki | Trust | discount/dividend |
| Northpower | Trust | discount/dividend |
| Orion New Zealand | Local Authority | dividend |
| OtagoNet Joint Venture | Electricity Invercargill/The Power Company | dividend |
| Powerco | AMP Capital/Queensland Investment Corporation | dividend |
| Scanpower | Trust | discount/dividend |
| The Lines Company | Trust | discount/dividend |
| The Power Company | Trust | discount |
| Top Energy | Trust | discount/dividend |
| Unison Networks | Trust | dividend |
| Vector | Trust/Public | dividend |
| Waipa Networks | Trust | discount |
| WEL Networks | Trust | discount/dividend |
| Wellington Electricity Lines | CK Infrastructure Limited and Power Assets Holdings Limited | dividend |
| Westpower | Trust | discount/dividend |



5. Regulatory profit

Regulatory profit measures

Definitions

Regulatory Profit Including Financial Incentives and Wash-Ups =

Total Regulatory Income – Operational Expenditure – Pass Through and Recoverable Costs Excluding Financial Incentives and Wash-Ups – Total Depreciation + Total Revaluations – Term Credit Spread Differential Allowance – Regulatory Tax Allowance

ROI Comparable to Vanilla WACC Reflecting All Revenue Earned =

$(1 + \text{Half-Yearly IRR})^2 - 1$

Where:

Half-yearly IRR is the internal rate of return calculated using:

- The negative of opening Regulatory Investment Value (Year-Start)
- Notional net cash flows (Mid-Year)
- The closing Regulatory Investment Value less Term Credit Spread Differential Allowance (Year-End)

ROI Comparable to Vanilla WACC Excluding Revenue Earned from Financial Incentives =

$(1 + \text{Half-Yearly IRR})^2 - 1$

Where:

Half-yearly IRR is the internal rate of return calculated using

- The negative of opening Regulatory Investment Value (Year-Start)
- Notional net cash flows (Mid-Year), less Financial Incentives multiplied by the corporate tax rate
- The closing Regulatory Investment Value less Term Credit Spread Differential Allowance (Year-End)

ROI Comparable to Vanilla WACC Excluding Revenue Earned from Financial Incentives and Wash-Ups =

$(1 + \text{Half-Yearly IRR})^2 - 1$

Where:

Half-yearly IRR is the internal rate of return calculated using:

- The negative of opening Regulatory Investment Value (Year-Start)
- Notional net cash flows (Mid-Year), less Financial Incentives and Wash-Ups multiplied by the corporate tax rate
- The closing Regulatory Investment Value less Term Credit Spread Differential Allowance (Year-End)

| | |
|--|---|
| ROI Comparable to Post Tax WACC Reflecting All Revenue Earned = | ROI Comparable to Vanilla WACC Reflecting All Revenue Earned – (Leverage × Cost of Debt × Corporate Tax Rate) |
| ROI Comparable to Post Tax WACC Excluding Revenue Earned from Financial Incentives = | ROI Comparable to Vanilla WACC Excluding Revenue Earned from Financial Incentives – (Leverage × Cost of Debt × Corporate Tax Rate) |
| ROI Comparable to Post Tax WACC Excluding Revenue Earned from Financial Incentives and Wash-Ups = | ROI Comparable to Vanilla WACC Excluding Revenue Earned from Financial Incentives and Wash-Ups – (Leverage × Cost of Debt × Corporate Tax Rate) |
| Year-End ROI Excluding Revenue Earned from Financial Incentives and Wash-Ups (Comparable to Vanilla WACC) = | <p style="text-align: center;">Regulatory Profit Including Financial Incentives and Wash-Ups -Financial Incentives and Wash-Ups</p> <hr/> <p>Total Opening Regulatory Asset Base + opening deferred tax + 0.5 × Assets Commissioned</p> |
| Year-End ROI Excluding Revenue Earned from Financial Incentives and Wash-Ups (Comparable to Post-Tax WACC) = | Year-End ROI Excluding Revenue Earned from Financial Incentives and Wash-Ups (Comparable to Vanilla WACC) – (Leverage × Cost of Debt × Corporate Tax Rate) |
| WACC Mid-Point = | The mid-point estimate of regulatory WACC for the 5 year period commencing on the first day of the disclosure year |
| WACC 25th Percentile = | The 25th percentile of the mid-point estimate of regulatory WACC for the 5 year period commencing on the first day of the disclosure year |
| WACC 75th Percentile = | The 75th percentile of the mid-point estimate of regulatory WACC for the 5 year period commencing on the first day of the disclosure year |

Regulatory profit measures

| 5 Regulatory profit | Regulatory Profit Including Financial Incentives and Wash-Ups | | | ROI - Comparable to Vanilla WACC | | | |
|------------------------------|---|-------------------------------|-------|----------------------------------|--|---|--|
| | | As a % of Line Charge Revenue | | Reflecting All Revenue Earned | Excluding Revenue Earned from Financial Incentives | Excluding Revenue Earned from Financial Incentives and Wash-Ups | |
| | \$000 | % | c/kWh | % | % | % | |
| Alpine Energy | 21,595 | 38.29 | 2.66 | 8.43 | 8.34 | 8.38 | |
| Aurora Energy | 55,890 | 45.38 | 4.12 | 8.71 | 7.38 | 7.47 | |
| Buller Electricity | 3,163 | 40.34 | 6.43 | 9.97 | 9.97 | 9.97 | |
| Centralines | 6,477 | 47.07 | 6.01 | 9.17 | 9.17 | 9.17 | |
| Counties Energy | 32,946 | 53.32 | 5.06 | 8.98 | 8.98 | 8.98 | |
| EA Networks | 27,273 | 65.16 | 4.83 | 8.91 | 9.28 | 9.15 | |
| Electra | 19,065 | 45.73 | 4.44 | 8.77 | 8.77 | 8.77 | |
| Electricity Invercargill | 8,859 | 48.04 | 3.55 | 9.28 | 9.11 | 9.21 | |
| Firstlight Network | 14,986 | 50.01 | 5.23 | 8.27 | 8.27 | 8.30 | |
| Horizon Energy Distribution | 16,041 | 49.38 | 2.99 | 10.62 | 9.91 | 9.84 | |
| MainPower New Zealand | 21,012 | 37.84 | 3.39 | 7.47 | 7.47 | 7.47 | |
| Marlborough Lines | 16,441 | 42.95 | 4.21 | 6.66 | 6.66 | 6.66 | |
| Nelson Electricity | 4,217 | 49.18 | 3.11 | 9.55 | 9.57 | 9.54 | |
| Network Tasman | 15,915 | 42.00 | 2.43 | 8.29 | 8.06 | 8.15 | |
| Network Waitaki | 8,680 | 39.52 | 3.21 | 8.03 | 8.03 | 8.03 | |
| Northpower | 20,680 | 31.44 | 2.61 | 6.43 | 6.43 | 6.43 | |
| Orion New Zealand | 116,332 | 50.55 | 3.44 | 9.13 | 9.05 | 9.01 | |
| OtagoNet Joint Venture | 19,311 | 59.10 | 4.18 | 8.67 | 9.44 | 9.52 | |
| Powerco | 201,980 | 51.69 | 4.07 | 8.88 | 8.92 | 8.94 | |
| Scanpower | 4,441 | 50.74 | 5.74 | 9.21 | 9.21 | 9.21 | |
| The Lines Company | 22,166 | 52.41 | 6.07 | 9.67 | 10.23 | 10.29 | |
| The Power Company | 37,655 | 62.79 | 4.58 | 8.66 | 8.66 | 8.66 | |
| Top Energy | 23,007 | 54.41 | 6.92 | 7.57 | 7.56 | 7.72 | |
| Unison Networks | 67,599 | 46.28 | 4.03 | 9.51 | 8.64 | 8.64 | |
| Vector | 313,288 | 51.12 | 3.70 | 8.88 | 8.85 | 8.84 | |
| Waipa Networks | 9,972 | 32.45 | 2.38 | 6.90 | 6.90 | 6.90 | |
| WEL Networks | 51,425 | 50.57 | 3.89 | 8.35 | 8.35 | 8.35 | |
| Wellington Electricity Lines | 71,221 | 45.22 | 3.11 | 10.10 | 10.01 | 10.04 | |
| Westpower | 8,527 | 39.32 | 3.86 | 7.41 | 7.41 | 7.41 | |
| Average | 42,764 | 47.32 | 4.15 | 8.64 | 8.57 | 8.59 | |
| Median | 20,680 | 48.04 | 4.03 | 8.77 | 8.77 | 8.77 | |
| Minimum | 3,163 | 31.44 | 2.38 | 6.43 | 6.43 | 6.43 | |
| Maximum | 313,288 | 65.16 | 6.92 | 10.62 | 10.23 | 10.29 | |
| WACC 25th Percentile | | | | 4.71% | | | |
| WACC Mid-Point | | | | 5.39% | | | |
| WACC 75th Percentile | | | | 6.07% | | | |

| ROI – Comparable to Post Tax WACC | | | Year-End ROI Excluding Revenue Earned from Financial Incentives and Wash-Ups | |
|-----------------------------------|--|---|--|-------------------------------|
| Reflecting All Revenue Earned % | Excluding Revenue Earned from Financial Incentives % | Excluding Revenue Earned from Financial Incentives and Wash-Ups % | Comparable to Vanilla WACC % | Comparable to Post Tax WACC % |
| 7.92 | 7.83 | 7.86 | 8.27 | 7.75 |
| 8.19 | 6.87 | 6.96 | 6.91 | 6.40 |
| 9.46 | 9.46 | 9.46 | 9.70 | 9.18 |
| 8.65 | 8.65 | 8.65 | 8.98 | 8.47 |
| 8.46 | 8.46 | 8.46 | 8.82 | 8.30 |
| 8.40 | 8.76 | 8.64 | 9.07 | 8.55 |
| 8.26 | 8.26 | 8.26 | 8.60 | 8.09 |
| 8.77 | 8.59 | 8.70 | 9.04 | 8.53 |
| 7.97 | 7.97 | 8.01 | 8.15 | 7.85 |
| 10.62 | 9.91 | 9.84 | 9.63 | 9.63 |
| 6.95 | 6.95 | 6.95 | 7.32 | 6.81 |
| 6.14 | 6.14 | 6.14 | 6.58 | 6.07 |
| 9.04 | 9.06 | 9.02 | 9.38 | 8.86 |
| 7.77 | 7.55 | 7.63 | 7.99 | 7.47 |
| 7.52 | 7.52 | 7.52 | 7.95 | 7.43 |
| 5.91 | 5.91 | 5.91 | 6.42 | 5.91 |
| 8.61 | 8.53 | 8.49 | 8.80 | 8.29 |
| 8.16 | 8.92 | 9.00 | 9.60 | 9.09 |
| 8.37 | 8.41 | 8.43 | 8.76 | 8.25 |
| 8.69 | 8.69 | 8.69 | 9.01 | 8.50 |
| 9.15 | 9.71 | 9.78 | 10.30 | 9.79 |
| 8.15 | 8.15 | 8.15 | 8.50 | 7.98 |
| 7.06 | 7.04 | 7.21 | 7.68 | 7.16 |
| 9.00 | 8.12 | 8.12 | 8.16 | 7.64 |
| 8.37 | 8.34 | 8.33 | 8.67 | 8.15 |
| 6.39 | 6.39 | 6.39 | 6.87 | 6.35 |
| 7.84 | 7.84 | 7.84 | 8.23 | 7.72 |
| 9.59 | 9.49 | 9.52 | 9.83 | 9.32 |
| 6.90 | 6.90 | 6.90 | 7.32 | 6.80 |
| 8.15 | 8.08 | 8.10 | 8.43 | 7.94 |
| 8.26 | 8.26 | 8.26 | 8.60 | 8.09 |
| 5.91 | 5.91 | 5.91 | 6.42 | 5.91 |
| 10.62 | 9.91 | 9.84 | 10.30 | 9.79 |
| 4.20% | | | | |
| 4.88% | | | | |
| 5.56% | | | | |



Components of regulatory profit

Definitions

| | |
|--|---|
| Total Regulatory Income = | Line Charge Revenue + Gains / (Losses) on Asset Disposals + Other Regulated Income |
| Operational Expenditure = | Operating costs that are allocated to electricity distribution services and excluding costs treated as an asset under GAAP, depreciation, tax, subvention payments, revaluations, interest expenses, and pass-through and recoverable costs |
| Pass-Through and Recoverable Costs Excluding Financial Incentives and Wash-Ups = | Pass-Through Costs + Recoverable Costs – Financial Incentives and Wash-Ups |
| Operating Surplus = | Total Regulatory Income – Operational Expenditure – Pass Through and Recoverable Costs Excluding Financial Incentives and Wash-Ups |
| Total Depreciation = | The sum of: <hr style="width: 20%; margin-left: 0; border: 0.5px solid black;"/> <p style="text-align: center;">Opening Regulatory Asset Base _____ or Remaining Life for Assets</p> |
| | Opening Regulatory Asset Base, for assets that have a closing remaining life of nil (excluding land, non-fixed life easements and network spares) |
| Total Revaluations = | The sum of CPI × Opening Regulatory Asset Base (Excluding assets that are fully depreciated, disposed of or lost in the disclosure year) |
| Regulatory Profit Before Tax & Term Credit Spread Differential Allowance = | Operating Surplus – Total Depreciation + Total Revaluations |
| Term Credit Spread Differential Allowance = | An adjustment to regulatory profit which compensates for the difference in term yields on qualifying debt held and the notional 5 year bond yield assumed in the regulatory WACC |
| Regulatory Tax Allowance = | (Regulatory Net Taxable Income – Utilised Tax Losses) × Corporate Tax Rate |
| Regulatory Profit Including Financial Incentives and Wash-Ups = | Regulatory Profit Before Tax & Term Credit Spread Differential Allowance – Term Credit Spread Differential Allowance – Regulatory Tax Allowance |

Components of regulatory profit

| | Total Regulatory Income | Operational Expenditure | Pass-Through and Recoverable Costs Excluding Financial Incentives and Wash-Ups | Operating Surplus | Total Depreciation |
|------------------------------|-------------------------|-------------------------|--|-------------------|--------------------|
| | \$000 | \$000 | \$000 | \$000 | \$000 |
| Alpine Energy | 56,492 | 24,894 | 15,190 | 16,408 | 11,082 |
| Aurora Energy | 121,374 | 48,271 | 29,931 | 43,172 | 25,779 |
| Buller Electricity | 7,918 | 4,114 | 504 | 3,300 | 1,816 |
| Centralines | 14,418 | 6,346 | 2,791 | 5,281 | 2,236 |
| Counties Energy | 61,425 | 24,472 | 12,823 | 24,130 | 13,441 |
| EA Networks | 41,884 | 15,449 | 8,375 | 18,060 | 11,591 |
| Electra | 44,018 | 17,109 | 10,288 | 16,621 | 10,351 |
| Electricity Invercargill | 18,514 | 5,586 | 6,058 | 6,870 | 3,729 |
| Firstlight Network | 30,310 | 12,894 | 6,492 | 10,924 | 7,106 |
| Horizon Energy Distribution | 32,080 | 11,278 | 7,583 | 13,220 | 7,153 |
| MainPower New Zealand | 55,174 | 20,875 | 12,251 | 22,047 | 18,671 |
| Marlborough Lines | 39,162 | 19,979 | 7,049 | 12,134 | 11,449 |
| Nelson Electricity | 8,576 | 2,351 | 2,821 | 3,403 | 1,699 |
| Network Tasman | 37,519 | 13,000 | 12,507 | 12,012 | 7,189 |
| Network Waitaki | 21,964 | 10,725 | 4,907 | 6,332 | 4,589 |
| Northpower | 66,479 | 36,529 | 18,819 | 11,131 | 12,204 |
| Orion New Zealand | 234,825 | 71,706 | 69,704 | 93,415 | 50,427 |
| OtagoNet Joint Venture | 32,591 | 10,030 | 8,683 | 13,878 | 9,688 |
| Powerco | 393,491 | 111,324 | 110,598 | 171,569 | 103,563 |
| Scanpower | 9,948 | 3,804 | 2,314 | 3,830 | 2,258 |
| The Lines Company | 42,340 | 15,935 | 6,874 | 19,530 | 11,155 |
| The Power Company | 60,288 | 17,864 | 13,429 | 28,995 | 17,599 |
| Top Energy | 42,665 | 23,749 | 4,381 | 14,536 | 11,964 |
| Unison Networks | 146,531 | 50,436 | 37,410 | 58,684 | 33,162 |
| Vector | 599,321 | 145,942 | 205,188 | 248,191 | 145,856 |
| Waipa Networks | 30,599 | 13,522 | 8,903 | 8,174 | 6,151 |
| WEL Networks | 101,806 | 35,879 | 29,244 | 36,683 | 24,551 |
| Wellington Electricity Lines | 158,407 | 36,335 | 61,637 | 60,434 | 30,305 |
| Westpower | 22,177 | 11,345 | 3,851 | 6,981 | 5,831 |
| Average | 87,321 | 28,336 | 24,848 | 34,136 | 20,779 |
| Median | 42,340 | 17,109 | 8,903 | 14,536 | 11,155 |
| Minimum | 7,918 | 2,351 | 504 | 3,300 | 1,699 |
| Maximum | 599,321 | 145,942 | 205,188 | 248,191 | 145,856 |
| Industry Total | 2,532,297 | 821,744 | 720,606 | 989,947 | 602,594 |

| | Total Revaluations | Regulatory Profit Before Tax & Term Credit Spread Differential Allowance | Term Credit Spread Differential Allowance | Regulatory Tax Allowance | Regulatory Profit Including Financial Incentives and Wash-Ups |
|--|--------------------|--|---|--------------------------|---|
| | \$000 | \$000 | \$000 | \$000 | \$000 |
| | 17,777 | 23,103 | 0 | 1,508 | 21,595 |
| | 42,563 | 59,956 | 0 | 4,066 | 55,890 |
| | 2,161 | 3,645 | 0 | 482 | 3,163 |
| | 4,452 | 7,497 | 0 | 1,020 | 6,477 |
| | 24,806 | 35,494 | 0 | 2,548 | 32,946 |
| | 21,377 | 27,846 | 0 | 573 | 27,273 |
| | 14,961 | 21,230 | 118 | 2,047 | 19,065 |
| | 6,645 | 9,785 | 0 | 927 | 8,859 |
| | 12,500 | 16,319 | 0 | 1,333 | 14,986 |
| | 9,975 | 16,041 | 0 | 0 | 16,041 |
| | 18,788 | 22,165 | 0 | 1,153 | 21,012 |
| | 16,499 | 17,184 | 0 | 744 | 16,441 |
| | 3,079 | 4,783 | 0 | 565 | 4,217 |
| | 12,699 | 17,523 | 0 | 1,608 | 15,915 |
| | 7,366 | 9,110 | 0 | 430 | 8,680 |
| | 21,787 | 20,714 | 0 | 35 | 20,680 |
| | 86,682 | 129,670 | 861 | 12,478 | 116,332 |
| | 15,995 | 20,185 | 0 | 874 | 19,311 |
| | 151,386 | 219,392 | 2,509 | 14,903 | 201,980 |
| | 3,319 | 4,892 | 0 | 450 | 4,441 |
| | 16,669 | 25,044 | 0 | 2,879 | 22,166 |
| | 30,336 | 41,733 | 431 | 3,648 | 37,655 |
| | 21,280 | 23,852 | 0 | 845 | 23,007 |
| | 49,031 | 74,554 | 467 | 6,488 | 67,599 |
| | 241,014 | 343,349 | 3,171 | 26,890 | 313,288 |
| | 9,671 | 11,694 | 0 | 1,722 | 9,972 |
| | 42,790 | 54,922 | 0 | 3,496 | 51,425 |
| | 49,410 | 79,539 | 356 | 7,961 | 71,221 |
| | 7,377 | 8,527 | 0 | 0 | 8,527 |
| | 33,186 | 46,543 | 273 | 3,506 | 42,764 |
| | 16,669 | 21,230 | 0 | 1,333 | 20,680 |
| | 2,161 | 3,645 | 0 | 0 | 3,163 |
| | 241,014 | 343,349 | 3,171 | 26,890 | 313,288 |
| | 962,397 | 1,349,747 | 7,913 | 101,674 | 1,240,161 |

6. Revenue

Composition of total regulatory income

Definitions

Line Charge Revenue =

Revenue from posted prices (net of posted discounts and gross of discretionary discounts and consumer rebates)

Standard Contract =

Any contract where the electricity line services to be provided under the contract are determined solely by reference to a schedule of prescribed terms and conditions; and at least four people have such contracts

Non-Standard Contract =

A contract for electricity lines services that is not a standard contract

Distribution Line
Charge Revenue =

Line charge revenue that is not transmission line charge revenue

Transmission Line
Charge Revenue =

Line charge revenue relating to recovery of transmission charges

Gains / (Losses)
on Asset Disposals =

Sale price of an asset – Asset Disposals

Other Regulatory Income =

Income associated with the supply of electricity distribution services other than through prices, investment-related income, capital contributions or vested assets

Total Regulatory Income =

Line Charge Revenue + Gains / (Losses) on Asset Disposals
+ Other Regulated Income

Composition of total regulatory income

| | Line Charge Revenue | | | | | |
|------------------------------|---------------------------|---------------------------|-----------|---------------------------|---------------------------|---------|
| | Standard Contracts | | | Non-Standard Contracts | | |
| | Distribution ¹ | Transmission ¹ | Total | Distribution ¹ | Transmission ¹ | Total |
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| Alpine Energy | 39,116 | 12,163 | 51,278 | 2,967 | 2,158 | 5,126 |
| Aurora Energy | 73,766 | 36,479 | 110,245 | 10,178 | 2,730 | 12,907 |
| Buller Electricity | - | - | 7,841 | - | - | - |
| Centralines | - | - | 13,759 | - | - | - |
| Counties Energy | - | - | 58,074 | - | - | 3,713 |
| EA Networks | 33,633 | 8,221 | 41,854 | - | - | - |
| Electra | - | - | 41,691 | - | - | - |
| Electricity Invercargill | 12,677 | 5,762 | 18,439 | - | - | - |
| Firstlight Network | 23,735 | 6,228 | 29,963 | - | - | - |
| Horizon Energy Distribution | 22,802 | 5,539 | 28,341 | 974 | 3,171 | 4,145 |
| MainPower New Zealand | 42,330 | 11,726 | 54,056 | 295 | 1,183 | 1,478 |
| Marlborough Lines | - | - | 38,199 | - | - | 78 |
| Nelson Electricity | - | - | 7,913 | - | - | 663 |
| Network Tasman | 23,752 | 10,252 | 34,004 | 1,940 | 1,948 | 3,887 |
| Network Waitaki | 14,196 | 4,428 | 18,623 | 2,072 | 1,268 | 3,340 |
| Northpower | - | - | 55,499 | - | - | 10,268 |
| Orion New Zealand | 164,492 | 62,116 | 226,608 | 2,098 | 1,432 | 3,529 |
| OtagoNet Joint Venture | 23,929 | 5,431 | 29,360 | 409 | 2,904 | 3,314 |
| Powerco | 238,224 | 82,540 | 320,764 | 42,139 | 27,827 | 69,965 |
| Scanpower | - | - | 8,753 | - | - | - |
| The Lines Company | 31,209 | 4,732 | 35,941 | 4,595 | 1,758 | 6,354 |
| The Power Company | 43,587 | 10,476 | 54,063 | 3,525 | 2,382 | 5,907 |
| Top Energy | 36,447 | 3,226 | 39,672 | 2,128 | 487 | 2,615 |
| Unison Networks | - | - | 143,027 | - | - | 3,053 |
| Vector | 427,207 | 168,184 | 595,353 | 10,296 | 7,136 | 17,470 |
| Waipa Networks | - | - | 28,630 | - | - | 2,099 |
| WEL Networks | - | - | 100,571 | - | - | 1,116 |
| Wellington Electricity Lines | 91,812 | 63,363 | 155,175 | 1,384 | 955 | 2,339 |
| Westpower | 17,836 | 3,850 | 21,685 | - | - | - |
| Average | 75,597 | 28,040 | 81,703 | 6,071 | 4,096 | 7,779 |
| Median | 35,040 | 9,237 | 39,672 | 2,113 | 2,053 | 3,529 |
| Minimum | | | 7,841 | | | 78 |
| Maximum | | | 595,353 | | | 69,965 |
| Industry Total | | | 2,369,385 | | | 163,367 |

1 Allocation of line charge revenue between distribution and transmission components is optional under the IDD.

Composition of total regulatory income continued

| | Line Charge Revenue | | | Gains / (Losses) on Asset Disposals \$000 | Other Regulatory Income \$000 | Total Regulatory Income \$000 | | | |
|------------------------------|------------------------------------|------------------------------------|----------------|--|----------------------------------|----------------------------------|--|--|--|
| | Total | | | | | | | | |
| | Distribution ¹ \$000 | Transmission ¹ \$000 | Total \$000 | | | | | | |
| Alpine Energy | 42,083 | 14,321 | 56,404 | 21 | 67 | 56,492 | | | |
| Aurora Energy | 83,944 | 39,209 | 123,153 | -2,445 | 666 | 121,374 | | | |
| Buller Electricity | - | - | 7,841 | -115 | 192 | 7,918 | | | |
| Centralines | - | - | 13,759 | 208 | 451 | 14,418 | | | |
| Counties Energy | - | - | 61,787 | -448 | 86 | 61,425 | | | |
| EA Networks | 33,633 | 8,221 | 41,854 | -361 | 391 | 41,884 | | | |
| Electra | - | - | 41,691 | -1,127 | 3,455 | 44,018 | | | |
| Electricity Invercargill | 12,677 | 5,762 | 18,439 | 12 | 63 | 18,514 | | | |
| Firstlight Network | 23,735 | 6,228 | 29,963 | 5 | 342 | 30,310 | | | |
| Horizon Energy Distribution | 23,776 | 8,710 | 32,486 | -649 | 243 | 32,080 | | | |
| MainPower New Zealand | 42,626 | 12,909 | 55,535 | -501 | 140 | 55,174 | | | |
| Marlborough Lines | - | - | 38,277 | -745 | 1,630 | 39,162 | | | |
| Nelson Electricity | - | - | 8,576 | 0 | 0 | 8,576 | | | |
| Network Tasman | 25,691 | 12,200 | 37,891 | -589 | 217 | 37,519 | | | |
| Network Waitaki | 16,268 | 5,696 | 21,964 | 0 | 0 | 21,964 | | | |
| Northpower | - | - | 65,767 | 0 | 713 | 66,479 | | | |
| Orion New Zealand | 166,590 | 63,548 | 230,137 | -133 | 4,821 | 234,825 | | | |
| OtagoNet Joint Venture | 24,339 | 8,335 | 32,674 | -83 | 0 | 32,591 | | | |
| Powerco | 280,363 | 110,367 | 390,730 | 1,100 | 1,661 | 393,491 | | | |
| Scanpower | - | - | 8,753 | -126 | 1,321 | 9,948 | | | |
| The Lines Company | 35,805 | 6,491 | 42,295 | 44 | 0 | 42,340 | | | |
| The Power Company | 47,112 | 12,858 | 59,970 | -791 | 1,109 | 60,288 | | | |
| Top Energy | 38,574 | 3,713 | 42,287 | -337 | 715 | 42,665 | | | |
| Unison Networks | - | - | 146,080 | -1,446 | 1,897 | 146,531 | | | |
| Vector | 437,503 | 175,320 | 612,823 | -13,502 | 0 | 599,321 | | | |
| Waipa Networks | - | - | 30,730 | -130 | 0 | 30,599 | | | |
| WEL Networks | - | - | 101,687 | -492 | 611 | 101,806 | | | |
| Wellington Electricity Lines | 93,196 | 64,319 | 157,515 | 0 | 892 | 158,407 | | | |
| Westpower | 17,836 | 3,850 | 21,685 | -56 | 548 | 22,177 | | | |
| Average | 80,319 | 31,225 | 87,336 | -782 | 767 | 87,321 | | | |
| Median | 37,189 | 10,455 | 41,854 | -130 | 391 | 42,340 | | | |
| Minimum | | | 7,841 | -13,502 | 0 | 7,918 | | | |
| Maximum | | | 612,823 | 1,100 | 4,821 | 599,321 | | | |
| Industry Total | | | 2,532,751 | -22,685 | 22,232 | 2,532,297 | | | |

¹ Allocation of line charge revenue between distribution and transmission components is optional under the IDD.

Pass-through and recoverable costs

Definitions

| | |
|---|--|
| Pass-Through Costs = | Local authority rates on system fixed assets and statutory levies paid or payable in association with the supply of electricity distribution services |
| Recoverable Costs = | Transpower Charges + Distributed Generation Allowance + Purchased Assets Avoided Transmission Charge + Other Recoverable Costs Including Financial Incentives and Wash-Ups |
| Recoverable Costs – Transpower Charges = | Charges payable to Transpower for electricity lines services (including new investment contracts and system operator charges) in respect of the transmission system |
| Recoverable Costs – Distributed Generation Allowance = | Transpower charges avoided arising from distributed generation, including embedded or notionally embedded generation, consistent with Part 6 of the Electricity Industry Participation Code 2010 |
| Recoverable Costs – Purchased Assets Avoided Transmission Charge = | Transpower charges avoided as a result of the purchase of transmission assets from Transpower |
| Recoverable Costs – Other Recoverable Costs Including Financial Incentives and Wash-Ups = | Adjustments resulting from extended reserves allowance, FENZ levy, and other recoverable costs excluding financial incentives and wash-ups + Financial Incentives and Wash-Ups |
| Financial Incentives and Wash-Ups = | Adjustments resulting from incremental rolling incentive scheme, quality incentive adjustment, claw back under a price-quality path determination, fees and other costs incurred in relation to a CPP application, catastrophic event allowance, capex wash-up adjustment, transmission asset wash-up adjustment, reconsideration event allowance, urgent project allowance, innovation project allowance draw-down, and other financial incentives and wash-ups |

Pass-through and recoverable costs

| | Pass-Through Costs | Recoverable Costs | | | | | Total Recoverable Costs | Total Pass-Through and Recoverable Costs Including Financial Incentives and Wash-Ups |
|------------------------------|--------------------|--------------------|----------------------------------|--|---|---------|-------------------------|--|
| | | Transpower Charges | Distributed Generation Allowance | Purchased Assets – Avoided Transmission Charge | Other Recoverable Costs Including Financial Incentives and Wash-Ups | \$000 | | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| Alpine Energy | 439 | 14,751 | 0 | 0 | 178 | 14,929 | 15,367 | |
| Aurora Energy | 1,762 | 23,180 | 4,955 | 0 | 10,745 | 38,880 | 40,642 | |
| Buller Electricity | 58 | 446 | 0 | 0 | 0 | 446 | 504 | |
| Centralines | 101 | 2,690 | 0 | 0 | 0 | 2,690 | 2,791 | |
| Counties Energy | 1,022 | 11,250 | 551 | 0 | 0 | 11,801 | 12,823 | |
| EA Networks | 473 | 7,902 | 0 | 0 | -984 | 6,918 | 7,391 | |
| Electra | 387 | 8,686 | 0 | 0 | 1,215 | 9,901 | 10,288 | |
| Electricity Invercargill | 296 | 5,762 | 0 | 0 | 91 | 5,853 | 6,149 | |
| Firstlight Network | 408 | 5,657 | 402 | 0 | -70 | 5,989 | 6,397 | |
| Horizon Energy Distribution | 446 | 3,640 | 3,449 | 738 | 438 | 8,265 | 8,712 | |
| MainPower New Zealand | 627 | 11,624 | 0 | 0 | 0 | 11,624 | 12,251 | |
| Marlborough Lines | 246 | 6,803 | 0 | 0 | 0 | 6,803 | 7,049 | |
| Nelson Electricity | 100 | 2,691 | 0 | 0 | 42 | 2,733 | 2,832 | |
| Network Tasman | 408 | 10,274 | 1,825 | 0 | 365 | 12,464 | 12,872 | |
| Network Waitaki | 177 | 4,730 | 0 | 0 | 0 | 4,730 | 4,907 | |
| Northpower | 477 | 17,929 | 413 | 0 | 0 | 18,342 | 18,819 | |
| Orion New Zealand | 6,147 | 63,426 | 0 | 310 | 1,882 | 65,618 | 71,766 | |
| OtagoNet Joint Venture | 371 | 7,398 | 914 | 0 | -2,514 | 5,798 | 6,169 | |
| Powerco | 4,329 | 101,130 | 5,138 | 0 | -1,715 | 104,554 | 108,883 | |
| Scanpower | 88 | 2,226 | 0 | 0 | 0 | 2,226 | 2,314 | |
| The Lines Company | 531 | 5,252 | 1,075 | 0 | -1,902 | 4,426 | 4,956 | |
| The Power Company | 571 | 12,858 | 0 | 0 | 0 | 12,858 | 13,429 | |
| Top Energy | 288 | 1,684 | 2,409 | 0 | -617 | 3,475 | 3,763 | |
| Unison Networks | 1,743 | 31,900 | 3,767 | 0 | 8,390 | 44,058 | 45,800 | |
| Vector | 21,639 | 181,978 | 1,033 | 0 | 2,254 | 185,265 | 206,904 | |
| Waipa Networks | 240 | 8,663 | 0 | 0 | 0 | 8,663 | 8,903 | |
| WEL Networks | 1,508 | 22,377 | 5,359 | 0 | 0 | 27,736 | 29,244 | |
| Wellington Electricity Lines | 3,985 | 55,547 | 2,052 | 0 | 687 | 58,287 | 62,272 | |
| Westpower | 279 | 1,415 | 2,157 | 0 | 0 | 3,571 | 3,851 | |
| Average | 1,695 | 21,858 | 1,224 | 36 | 637 | 23,755 | 25,450 | |
| Median | 439 | 8,663 | 402 | 0 | 0 | 8,663 | 8,903 | |
| Minimum | 58 | 446 | 0 | 0 | -2,514 | 446 | 504 | |
| Maximum | 21,639 | 181,978 | 5,359 | 738 | 10,745 | 185,265 | 206,904 | |
| Industry Total | 49,146 | 633,870 | 35,500 | 1,048 | 18,484 | 688,902 | 738,048 | |

Unit line charge revenue

| | Total Line Charge Revenue per kWh Energy Delivered to ICPs | | | | | | | | | |
|------------------------------|--|--------------------------------|-------|--------------------------------|--------------------------------|--------|--------------------------------|--------------------------------|-------|--|
| | Standard Contracts | | | Non-Standard Contracts | | | Total | | | |
| | Distri -bution ¹ | Trans -mission ¹ | Total | Distri -bution ¹ | Trans -mission ¹ | Total | Distri -bution ¹ | Trans -mission ¹ | Total | |
| | c/kWh | c/kWh | c/kWh | c/kWh | c/kWh | c/kWh | c/kWh | c/kWh | c/kWh | |
| Alpine Energy | 6.59 | 2.05 | 8.63 | 1.36 | 0.99 | 2.35 | 5.18 | 1.76 | 6.94 | |
| Aurora Energy | 5.48 | 2.71 | 8.19 | 106.65 | 28.61 | 135.25 | 6.19 | 2.89 | 9.09 | |
| Buller Electricity | - | - | 15.94 | - | - | - | - | - | 15.94 | |
| Centralines | - | - | 12.76 | - | - | - | - | - | 12.76 | |
| Counties Energy | - | - | 10.52 | - | - | 3.77 | - | - | 9.49 | |
| EA Networks | 5.96 | 1.46 | 7.42 | - | - | - | 5.96 | 1.46 | 7.42 | |
| Electra | - | - | 9.72 | - | - | - | - | - | 9.72 | |
| Electricity Invercargill | 5.07 | 2.31 | 7.38 | - | - | - | 5.07 | 2.31 | 7.38 | |
| Firstlight Network | 8.29 | 2.17 | 10.46 | - | - | - | 8.29 | 2.17 | 10.46 | |
| Horizon Energy Distribution | 8.60 | 2.09 | 10.69 | 0.36 | 1.17 | 1.53 | 4.43 | 1.62 | 6.05 | |
| MainPower New Zealand | 7.42 | 2.05 | 9.47 | 0.60 | 2.40 | 3.01 | 6.87 | 2.08 | 8.96 | |
| Marlborough Lines | - | - | 9.79 | - | - | - | - | - | 9.81 | |
| Nelson Electricity | - | - | 6.27 | - | - | 7.14 | - | - | 6.33 | |
| Network Tasman | 4.38 | 1.89 | 6.26 | 1.75 | 1.76 | 3.51 | 3.93 | 1.87 | 5.80 | |
| Network Waitaki | 7.33 | 2.29 | 9.62 | 2.70 | 1.65 | 4.34 | 6.01 | 2.11 | 8.12 | |
| Northpower | - | - | 9.57 | - | - | 4.84 | - | - | 8.30 | |
| Orion New Zealand | 5.09 | 1.92 | 7.01 | 1.43 | 0.97 | 2.40 | 4.93 | 1.88 | 6.81 | |
| OtagoNet Joint Venture | 9.06 | 2.06 | 11.12 | 0.21 | 1.46 | 1.67 | 5.26 | 1.80 | 7.06 | |
| Powerco | 7.84 | 2.72 | 10.55 | 2.19 | 1.45 | 3.64 | 5.65 | 2.22 | 7.88 | |
| Scanpower | - | - | 11.30 | - | - | - | - | - | 11.30 | |
| The Lines Company | 12.04 | 1.83 | 13.86 | 4.33 | 1.66 | 5.99 | 9.80 | 1.78 | 11.58 | |
| The Power Company | 6.74 | 1.62 | 8.36 | 2.01 | 1.36 | 3.36 | 5.73 | 1.56 | 7.29 | |
| Top Energy | 12.78 | 1.13 | 13.91 | 4.50 | 1.03 | 5.53 | 11.60 | 1.12 | 12.72 | |
| Unison Networks | - | - | 8.74 | - | - | 7.18 | - | - | 8.70 | |
| Vector | 5.44 | 2.14 | 7.59 | 1.68 | 1.16 | 2.84 | 5.17 | 2.07 | 7.24 | |
| Waipa Networks | - | - | 8.27 | - | - | 2.86 | - | - | 7.32 | |
| WEL Networks | - | - | 7.80 | - | - | 3.39 | - | - | 7.69 | |
| Wellington Electricity Lines | 4.07 | 2.81 | 6.88 | 4.22 | 2.92 | 7.14 | 4.08 | 2.81 | 6.89 | |
| Westpower | 8.07 | 1.74 | 9.81 | - | - | - | 8.07 | 1.74 | 9.81 | |
| Average | 7.24 | 2.05 | 9.58 | 9.57 | 3.47 | 10.59 | 6.24 | 1.96 | 8.79 | |
| Median | 7.04 | 2.06 | 9.57 | 1.88 | 1.46 | 3.58 | 5.69 | 1.87 | 8.12 | |
| Minimum | | | 6.26 | | | 1.53 | | | 5.80 | |
| Maximum | | | 15.94 | | | 135.25 | | | 15.94 | |

¹ Allocation of line charge revenue between distribution and transmission components is optional under the IDD.

Unit line charge revenue continued

| | Total Line Charge Revenue per ICP | | | | | | | | | |
|------------------------------|-----------------------------------|--------------------------------|--------|--------------------------------|--------------------------------|-----------|--------------------------------|--------------------------------|--------|--|
| | Standard Contracts | | | Non-Standard Contracts | | | Total | | | |
| | Distri -bution ¹ | Trans -mission ¹ | Total | Distri -bution ¹ | Trans -mission ¹ | Total | Distri -bution ¹ | Trans -mission ¹ | Total | |
| | \$/ICP | \$/ICP | \$/ICP | \$/ICP | \$/ICP | \$/ICP | \$/ICP | \$/ICP | \$/ICP | |
| Alpine Energy | 1,167 | 363 | 1,529 | 247,289 | 179,869 | 427,158 | 1,255 | 427 | 1,682 | |
| Aurora Energy | 782 | 387 | 1,169 | 715,625 | 191,947 | 907,572 | 890 | 416 | 1,306 | |
| Buller Electricity | - | - | 1,628 | - | - | - | - | - | 1,628 | |
| Centralines | - | - | 1,494 | - | - | - | - | - | 1,494 | |
| Counties Energy | - | - | 1,237 | - | - | 412,523 | - | - | 1,316 | |
| EA Networks | 1,638 | 400 | 2,038 | - | - | - | 1,638 | 400 | 2,038 | |
| Electra | - | - | 900 | - | - | - | - | - | 900 | |
| Electricity Invercargill | 722 | 328 | 1,050 | - | - | - | 722 | 328 | 1,050 | |
| Firstlight Network | 917 | 241 | 1,158 | - | - | - | 917 | 241 | 1,158 | |
| Horizon Energy Distribution | 906 | 220 | 1,127 | 42,359 | 137,864 | 180,223 | 944 | 346 | 1,290 | |
| MainPower New Zealand | 960 | 266 | 1,226 | 295,485 | 1,182,847 | 1,478,332 | 966 | 293 | 1,259 | |
| Marlborough Lines | - | - | 1,424 | 77,938 | 0 | 77,938 | - | - | 1,427 | |
| Nelson Electricity | - | - | 851 | - | - | 331,319 | - | - | 922 | |
| Network Tasman | 563 | 243 | 805 | 484,876 | 486,875 | 971,751 | 608 | 289 | 897 | |
| Network Waitaki | 1,071 | 334 | 1,404 | 24,672 | 15,095 | 39,767 | 1,219 | 427 | 1,646 | |
| Northpower | - | - | 881 | - | - | 1,283,451 | - | - | 1,044 | |
| Orion New Zealand | 754 | 285 | 1,038 | 139,847 | 95,445 | 235,293 | 763 | 291 | 1,055 | |
| OtagoNet Joint Venture | 1,236 | 281 | 1,517 | 136,491 | 968,141 | 1,104,633 | 1,257 | 431 | 1,688 | |
| Powerco | 669 | 232 | 901 | 61,159 | 40,387 | 101,546 | 786 | 309 | 1,096 | |
| Scanpower | - | - | 1,293 | - | - | - | - | - | 1,293 | |
| The Lines Company | 1,302 | 197 | 1,500 | 88,374 | 33,815 | 122,189 | 1,491 | 270 | 1,761 | |
| The Power Company | 1,168 | 281 | 1,449 | 587,481 | 396,976 | 984,457 | 1,262 | 344 | 1,607 | |
| Top Energy | 1,087 | 96 | 1,183 | 10,430 | 2,387 | 12,817 | 1,143 | 110 | 1,253 | |
| Unison Networks | - | - | 1,208 | - | - | 95,402 | - | - | 1,233 | |
| Vector | 708 | 279 | 986 | 355,034 | 246,069 | 602,414 | 725 | 290 | 1,015 | |
| Waipa Networks | - | - | 983 | - | - | 699,783 | - | - | 1,055 | |
| WEL Networks | - | - | 1,020 | - | - | 279,008 | - | - | 1,031 | |
| Wellington Electricity Lines | 529 | 365 | 894 | 81,419 | 56,191 | 137,610 | 537 | 371 | 908 | |
| Westpower | 1,261 | 272 | 1,533 | - | - | - | 1,261 | 272 | 1,533 | |
| Average | 969 | 282 | 1,222 | 223,232 | 268,927 | 499,295 | 1,021 | 325 | 1,296 | |
| Median | 939 | 280 | 1,183 | 136,491 | 137,864 | 331,319 | 955 | 319 | 1,259 | |
| Minimum | | | 805 | | | 12,817 | | | 897 | |
| Maximum | | | 2,038 | | | 1,478,332 | | | 2,038 | |

¹ Allocation of line charge revenue between distribution and transmission components is optional under the IDD.

7. Operational expenditure

Definitions

Operational Expenditure =

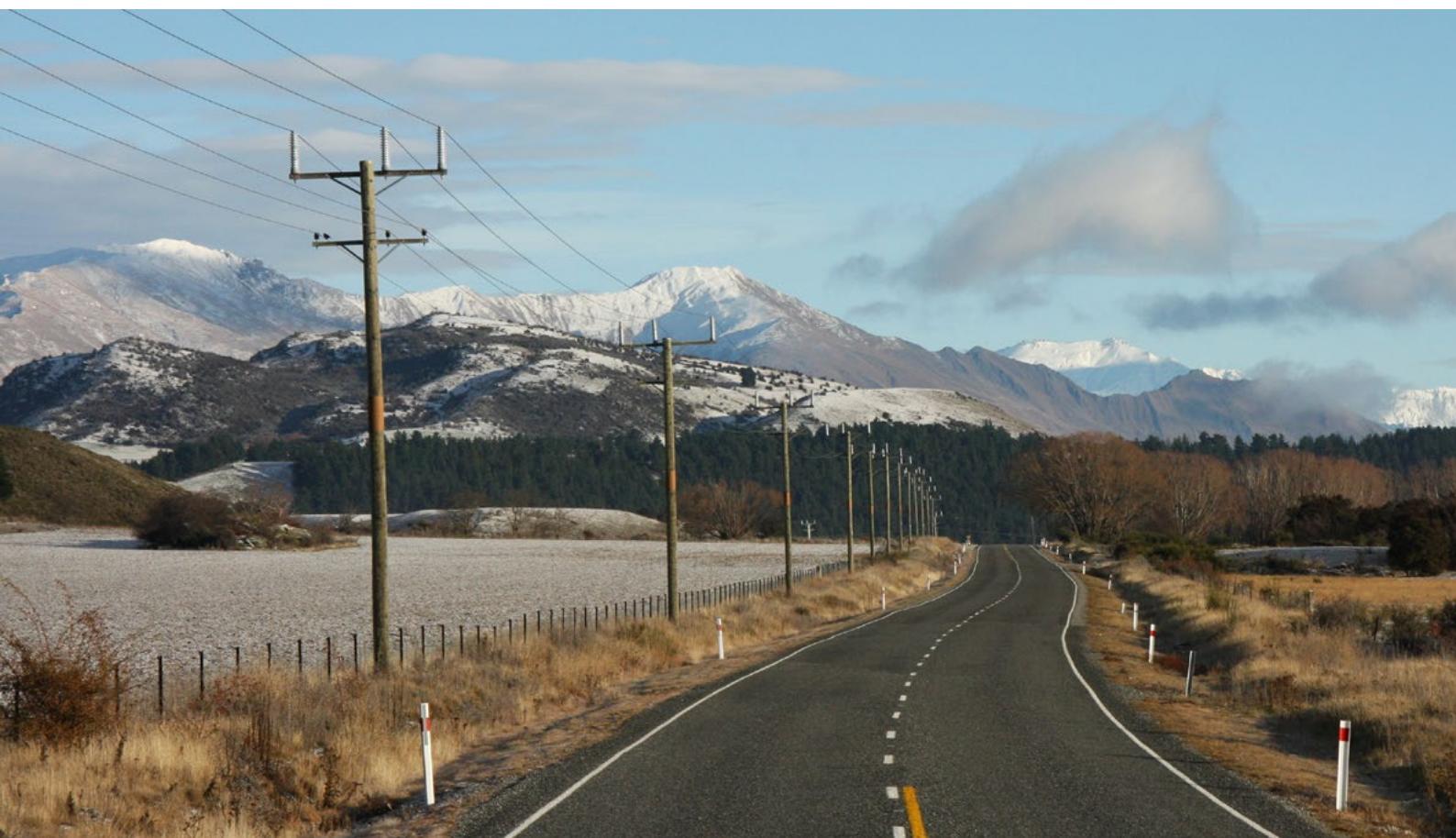
Operating costs that are allocated to electricity distribution services excluding costs treated as an asset under GAAP, depreciation, tax, subvention payments, revaluations, interest expenses, and pass-through and recoverable costs

Network Operational Expenditure =

Operational expenditure relating to service interruptions and emergencies, vegetation management, routine and corrective maintenance and inspection, and asset replacement and renewal

Non-Network Operational Expenditure =

Operational expenditure relating to system operations and network support, and business support



Operational expenditure ratios

| | Operating Expenditure per Energy Delivered to ICPs | | | Operating Expenditure per Connection | | | |
|------------------------------|--|-------------|--------|--------------------------------------|-------------|--------|--|
| | Network | Non-Network | Total | Network | Non-Network | Total | |
| | \$/GWh | \$/GWh | \$/GWh | \$/ICP | \$/ICP | \$/ICP | |
| Alpine Energy | 6,819 | 23,833 | 30,652 | 165 | 577 | 742 | |
| Aurora Energy | 15,224 | 20,392 | 35,615 | 219 | 293 | 512 | |
| Buller Electricity | 26,293 | 57,351 | 83,644 | 269 | 586 | 854 | |
| Centralines | 24,769 | 34,080 | 58,849 | 290 | 399 | 689 | |
| Counties Energy | 13,283 | 24,323 | 37,606 | 184 | 337 | 521 | |
| EA Networks | 7,035 | 20,343 | 27,378 | 193 | 559 | 752 | |
| Electra | 15,081 | 24,802 | 39,883 | 140 | 230 | 369 | |
| Electricity Invercargill | 8,327 | 14,033 | 22,360 | 118 | 200 | 318 | |
| Firstlight Network | 21,520 | 23,509 | 45,029 | 238 | 260 | 498 | |
| Horizon Energy Distribution | 7,392 | 13,624 | 21,016 | 158 | 290 | 448 | |
| MainPower New Zealand | 9,736 | 23,931 | 33,667 | 137 | 336 | 473 | |
| Marlborough Lines | 25,078 | 26,121 | 51,200 | 365 | 380 | 745 | |
| Nelson Electricity | 6,681 | 10,675 | 17,356 | 97 | 156 | 253 | |
| Network Tasman | 10,412 | 9,476 | 19,888 | 161 | 147 | 308 | |
| Network Waitaki | 11,876 | 27,770 | 39,645 | 241 | 563 | 804 | |
| Northpower | 24,179 | 21,946 | 46,125 | 304 | 276 | 580 | |
| Orion New Zealand | 8,395 | 12,836 | 21,231 | 130 | 199 | 329 | |
| OtagoNet Joint Venture | 13,429 | 8,257 | 21,686 | 321 | 197 | 518 | |
| Powerco | 10,478 | 11,965 | 22,442 | 146 | 166 | 312 | |
| Scanpower | 18,668 | 30,454 | 49,122 | 213 | 348 | 562 | |
| The Lines Company | 17,225 | 26,387 | 43,613 | 262 | 401 | 664 | |
| The Power Company | 13,185 | 8,534 | 21,719 | 291 | 188 | 479 | |
| Top Energy | 27,666 | 43,771 | 71,437 | 273 | 431 | 704 | |
| Unison Networks | 10,476 | 19,564 | 30,040 | 148 | 277 | 426 | |
| Vector | 6,844 | 10,402 | 17,246 | 96 | 146 | 242 | |
| Waipa Networks | 12,738 | 19,480 | 32,218 | 184 | 281 | 464 | |
| WEL Networks | 8,329 | 18,794 | 27,123 | 112 | 252 | 364 | |
| Wellington Electricity Lines | 7,179 | 8,709 | 15,888 | 95 | 115 | 209 | |
| Westpower | 28,082 | 23,238 | 51,319 | 439 | 363 | 802 | |
| Average | 14,359 | 21,331 | 35,690 | 206 | 309 | 515 | |
| Median | 12,738 | 20,392 | 32,218 | 184 | 281 | 498 | |
| Minimum | 6,681 | 8,257 | 15,888 | 95 | 115 | 209 | |
| Maximum | 28,082 | 57,351 | 83,644 | 439 | 586 | 854 | |

| | Operating Expenditure per Maximum Coincident System Demand | | | Operating Expenditure per Circuit Length | | | Operating Expenditure per Distribution Transformer Capacity | | |
|---------|--|-------------|-------|--|-------------|--------|---|-------------|--------|
| | Network | Non-Network | Total | Network | Non-Network | Total | Network | Non-Network | Total |
| | \$/MW | \$/MW | \$/MW | \$/km | \$/km | \$/km | \$/MVA | \$/MVA | \$/MVA |
| 38,978 | 136,238 | 175,216 | 1,266 | 4,425 | 5,691 | 8,468 | 29,597 | 38,065 | |
| 66,841 | 89,534 | 156,376 | 3,298 | 4,418 | 7,716 | 21,561 | 28,881 | 50,442 | |
| 123,058 | 268,416 | 391,474 | 1,990 | 4,341 | 6,331 | 34,247 | 74,701 | 108,948 | |
| 119,722 | 164,724 | 284,446 | 1,433 | 1,971 | 3,404 | 24,963 | 34,346 | 59,308 | |
| 64,507 | 118,119 | 182,627 | 2,438 | 4,464 | 6,903 | 19,826 | 36,303 | 56,128 | |
| 25,493 | 73,713 | 99,206 | 1,252 | 3,619 | 4,870 | 6,637 | 19,191 | 25,829 | |
| 59,774 | 98,302 | 158,076 | 2,719 | 4,471 | 7,190 | 19,272 | 31,693 | 50,965 | |
| 29,003 | 48,874 | 77,877 | 3,131 | 5,275 | 8,406 | 13,332 | 22,467 | 35,799 | |
| 94,238 | 102,952 | 197,191 | 1,562 | 1,706 | 3,268 | 27,699 | 30,260 | 57,959 | |
| 42,267 | 77,900 | 120,167 | 1,512 | 2,786 | 4,298 | 14,530 | 26,780 | 41,310 | |
| 49,320 | 121,228 | 170,548 | 1,161 | 2,854 | 4,016 | 10,249 | 25,192 | 35,442 | |
| 129,729 | 135,125 | 264,854 | 2,781 | 2,897 | 5,677 | 27,131 | 28,259 | 55,390 | |
| 26,866 | 42,927 | 69,793 | 3,059 | 4,887 | 7,946 | 9,058 | 14,472 | 23,530 | |
| 52,811 | 48,062 | 100,874 | 1,830 | 1,666 | 3,496 | 14,450 | 13,151 | 27,601 | |
| 49,548 | 115,862 | 165,410 | 1,684 | 3,938 | 5,621 | 13,837 | 32,355 | 46,192 | |
| 121,583 | 110,356 | 231,939 | 3,093 | 2,808 | 5,901 | 31,937 | 28,988 | 60,925 | |
| 43,296 | 66,203 | 109,499 | 2,381 | 3,641 | 6,022 | 12,262 | 18,750 | 31,012 | |
| 85,186 | 52,379 | 137,564 | 1,345 | 827 | 2,172 | 26,303 | 16,173 | 42,476 | |
| 53,361 | 60,935 | 114,296 | 1,787 | 2,040 | 3,827 | 14,658 | 16,738 | 31,396 | |
| 88,137 | 143,784 | 231,922 | 1,374 | 2,242 | 3,616 | 19,273 | 31,441 | 50,714 | |
| 84,027 | 128,721 | 212,749 | 1,422 | 2,178 | 3,600 | 24,208 | 37,084 | 61,292 | |
| 67,810 | 43,889 | 111,700 | 1,221 | 790 | 2,011 | 22,709 | 14,698 | 37,407 | |
| 117,777 | 186,341 | 304,118 | 2,175 | 3,442 | 5,617 | 30,871 | 48,843 | 79,714 | |
| 50,131 | 93,622 | 143,753 | 1,884 | 3,519 | 5,403 | 13,893 | 25,946 | 39,839 | |
| 32,935 | 50,055 | 82,989 | 2,975 | 4,521 | 7,497 | 11,666 | 17,730 | 29,396 | |
| 62,733 | 95,942 | 158,675 | 2,322 | 3,551 | 5,874 | 18,057 | 27,616 | 45,673 | |
| 39,210 | 88,473 | 127,683 | 1,962 | 4,426 | 6,388 | 11,347 | 25,604 | 36,951 | |
| 30,526 | 37,032 | 67,558 | 3,396 | 4,119 | 7,515 | 10,965 | 13,302 | 24,267 | |
| 159,002 | 131,575 | 290,577 | 2,831 | 2,343 | 5,174 | 40,470 | 33,489 | 73,959 | |
| 69,237 | 101,079 | 170,316 | 2,113 | 3,247 | 5,360 | 19,099 | 27,726 | 46,825 | |
| 59,774 | 95,942 | 158,076 | 1,962 | 3,519 | 5,621 | 18,057 | 27,616 | 42,476 | |
| 25,493 | 37,032 | 67,558 | 1,161 | 790 | 2,011 | 6,637 | 13,151 | 23,530 | |
| 159,002 | 268,416 | 391,474 | 3,396 | 5,275 | 8,406 | 40,470 | 74,701 | 108,948 | |

Composition of operational expenditure

Definitions

| | |
|--|---|
| Service Interruptions and Emergencies = | Operational expenditure where the primary driver is an immediate response to an unplanned instantaneous event or incident that impairs the normal operation of network assets |
| Vegetation Management = | Operational expenditure where the primary driver is the need to physically fell, remove or trim vegetation (including root management) that is in the proximity of overhead lines or cables |
| Routine and Corrective Maintenance and Inspection = | Operational expenditure where the primary driver is planned or programmed inspection, testing and maintenance |
| Asset Replacement and Renewal = | Operational expenditure where the primary driver is the need to maintain network asset integrity so as to maintain current security and/or quality of supply standards |
| System Operations and Network Support = | Operational expenditure where the primary driver is the management of the network including control centre and office-based system operations |
| Business Support = | Operational expenditure associated with day to day corporate activities, including human resources, finance and regulation, management, legal and consulting services, property management, IT and communications, pricing and billing, and stakeholder management |
| Energy Efficiency and Demand Side Management, Reduction of Energy Losses = | Operational expenditure where the primary driver is to improve the efficient provision of electricity line services by improving energy efficiency, encouraging demand side management, implementing initiatives that reduce electricity losses and reactive power flows on the network |
| Direct Billing = | Operational expenditure associated with directly billing end consumers and recovering payments due |
| Research and Development = | Operational expenditure where the primary driver for the expenditure relates to increasing the efficient provision of electricity lines services |
| Insurance = | Operational expenditure associated with contracts of insurance as defined in the Insurance (Prudential Supervision) Act 2010 |

Operational expenditure categories

| | Network Operational Expenditure | | | | | Total \$000 |
|------------------------------|---------------------------------------|-----------------------|---|-------------------------------|---------|----------------|
| | Service Interruptions and Emergencies | Vegetation Management | Routine and Corrective Maintenance and Inspection | Asset Replacement and Renewal | | |
| | \$000 | \$000 | \$000 | \$000 | | |
| Alpine Energy | 2,113 | 707 | 2,550 | 168 | 5,538 | |
| Aurora Energy | 2,882 | 5,466 | 12,285 | 0 | 20,633 | |
| Buller Electricity | 440 | 441 | 340 | 72 | 1,293 | |
| Centralines | 721 | 792 | 40 | 1,118 | 2,671 | |
| Counties Energy | 2,801 | 2,422 | 2,525 | 896 | 8,644 | |
| EA Networks | 586 | 568 | 1,441 | 1,375 | 3,970 | |
| Electra | 2,842 | 1,557 | 1,164 | 907 | 6,470 | |
| Electricity Invercargill | 505 | 0 | 1,365 | 210 | 2,080 | |
| Firstlight Network | 3,015 | 1,021 | 1,554 | 573 | 6,162 | |
| Horizon Energy Distribution | 1,370 | 987 | 1,343 | 267 | 3,967 | |
| MainPower New Zealand | 969 | 983 | 4,083 | 2 | 6,037 | |
| Marlborough Lines | 1,998 | 2,617 | 4,229 | 942 | 9,786 | |
| Nelson Electricity | 266 | 28 | 526 | 85 | 905 | |
| Network Tasman | 1,444 | 1,224 | 2,593 | 1,545 | 6,806 | |
| Network Waitaki | 787 | 727 | 1,117 | 582 | 3,213 | |
| Northpower | 6,971 | 2,874 | 4,001 | 5,303 | 19,149 | |
| Orion New Zealand | 10,680 | 4,507 | 12,281 | 884 | 28,352 | |
| OtagoNet Joint Venture | 2,292 | 906 | 2,833 | 180 | 6,211 | |
| Powerco | 9,568 | 10,283 | 16,342 | 15,781 | 51,973 | |
| Scarpa | 255 | 744 | 159 | 288 | 1,445 | |
| The Lines Company | 2,661 | 1,563 | 1,698 | 372 | 6,294 | |
| The Power Company | 4,367 | 1,380 | 4,456 | 642 | 10,845 | |
| Top Energy | 3,116 | 1,936 | 2,303 | 1,842 | 9,197 | |
| Unison Networks | 5,687 | 2,577 | 6,051 | 3,273 | 17,589 | |
| Vector | 21,262 | 6,046 | 20,603 | 10,007 | 57,918 | |
| Waipa Networks | 2,411 | 1,541 | 593 | 801 | 5,346 | |
| WEL Networks | 5,378 | 1,664 | 2,000 | 1,976 | 11,018 | |
| Wellington Electricity Lines | 4,321 | 1,952 | 8,944 | 1,201 | 16,418 | |
| Westpower | 814 | 1,084 | 4,097 | 213 | 6,208 | |
| Average | 3,535 | 2,021 | 4,259 | 1,776 | 11,591 | |
| Median | 2,411 | 1,380 | 2,525 | 801 | 6,294 | |
| Minimum | 255 | 0 | 40 | 0 | 905 | |
| Maximum | 21,262 | 10,283 | 20,603 | 15,781 | 57,918 | |
| Industry Total | 102,520 | 58,598 | 123,517 | 51,505 | 336,139 | |

Operational expenditure categories continued

| | Non-Network Operational Expenditure | | | Total Operational Expenditure | Subcomponents ¹ | | | | |
|------------------------------|--|---------------------------|----------------|-------------------------------|---|-------------------------|-----------------------------------|--------------------|--|
| | System Operations and Network Support \$000 | Business Support \$000 | Total \$000 | | Energy Efficiency and Demand Side Management, Reduction of Energy Losses \$000 | Direct Billing \$000 | Research and Development \$000 | Insurance \$000 | |
| | | | | | \$000 | \$000 | \$000 | \$000 | |
| Alpine Energy | 8,912 | 10,444 | 19,356 | 24,894 | 0 | 0 | 0 | 284 | |
| Aurora Energy | 13,864 | 13,774 | 27,638 | 48,271 | 0 | 0 | 0 | 501 | |
| Buller Electricity | 241 | 2,580 | 2,821 | 4,114 | 0 | 0 | 0 | 234 | |
| Centralines | 354 | 3,321 | 3,675 | 6,346 | 0 | 0 | 0 | 204 | |
| Counties Energy | 4,106 | 11,722 | 15,828 | 24,472 | 0 | 0 | 0 | 583 | |
| EA Networks | 4,236 | 7,243 | 11,479 | 15,449 | 7 | 0 | 1 | 347 | |
| Electra | 4,834 | 5,805 | 10,640 | 17,109 | 0 | 0 | 0 | 740 | |
| Electricity Invercargill | 1,116 | 2,390 | 3,506 | 5,586 | 63 | 0 | 0 | 164 | |
| Firstlight Network | 2,053 | 4,679 | 6,732 | 12,894 | 0 | 0 | 0 | 469 | |
| Horizon Energy Distribution | 3,253 | 4,058 | 7,311 | 11,278 | 0 | 0 | 0 | 0 | |
| MainPower New Zealand | 10,497 | 4,341 | 14,838 | 20,875 | 0 | 0 | 0 | 836 | |
| Marlborough Lines | 4,737 | 5,456 | 10,193 | 19,979 | 0 | 0 | 0 | 446 | |
| Nelson Electricity | 389 | 1,057 | 1,446 | 2,351 | 0 | 0 | 0 | 232 | |
| Network Tasman | 3,467 | 2,727 | 6,194 | 13,000 | 85 | 0 | 0 | 411 | |
| Network Waitaki | 3,415 | 4,097 | 7,512 | 10,725 | 0 | 0 | 0 | 626 | |
| Northpower | 4,398 | 12,983 | 17,381 | 36,529 | 0 | 0 | 0 | 0 | |
| Orion New Zealand | 24,054 | 19,299 | 43,354 | 71,706 | 0 | 0 | 0 | 2,841 | |
| OtagoNet Joint Venture | 1,389 | 2,430 | 3,819 | 10,030 | 0 | 0 | 0 | 222 | |
| Powerco | 21,886 | 37,465 | 59,351 | 111,324 | 250 | 0 | 16 | 1,770 | |
| Scanpower | 686 | 1,672 | 2,358 | 3,804 | 0 | 0 | 0 | 0 | |
| The Lines Company | 4,577 | 5,064 | 9,641 | 15,935 | 20 | 0 | 0 | 398 | |
| The Power Company | 2,986 | 4,033 | 7,019 | 17,864 | 63 | 0 | 0 | 425 | |
| Top Energy | 6,946 | 7,605 | 14,551 | 23,749 | 0 | 0 | 0 | 701 | |
| Unison Networks | 8,616 | 24,231 | 32,848 | 50,436 | 0 | 0 | 0 | 2,144 | |
| Vector | 41,914 | 46,110 | 88,024 | 145,942 | 0 | 0 | 0 | 4,124 | |
| Waipa Networks | 3,840 | 4,336 | 8,176 | 13,522 | 0 | 0 | 0 | 0 | |
| WEL Networks | 9,673 | 15,188 | 24,861 | 35,879 | 387 | 0 | 0 | 738 | |
| Wellington Electricity Lines | 8,848 | 11,070 | 19,917 | 36,335 | 0 | 0 | 0 | 2,375 | |
| Westpower | 3,387 | 1,750 | 5,137 | 11,345 | 0 | 0 | 0 | 165 | |
| Average | 7,196 | 9,549 | 16,745 | 28,336 | 30 | 0 | 1 | 758 | |
| Median | 4,236 | 5,064 | 10,193 | 17,109 | 0 | 0 | 0 | 425 | |
| Minimum | 241 | 1,057 | 1,446 | 2,351 | 0 | 0 | 0 | 0 | |
| Maximum | 41,914 | 46,110 | 88,024 | 145,942 | 387 | 0 | 16 | 4,124 | |
| Industry Total | 208,674 | 276,932 | 485,606 | 821,744 | 875 | 0 | 17 | 21,981 | |

¹ Subcomponents are only disclosed where known.

Operating cost allocations

Definitions

| | |
|------------------------------|--|
| Directly Attributable = | Operating costs that are wholly and solely incurred in relation to the supply of electricity lines services |
| Not Directly Attributable = | Operating costs that are not Directly Attributable |
| Arm's Length Deduction = | An amount of operating costs that is not Directly Attributable that have been recouped in an arm's-length transaction |
| OVABAA Allocation Increase = | Optional variation to accounting-based allocation approach which provides for an adjustment to allocations of operating costs which are Not Directly Attributable to a regulated service, to ensure the unregulated service is not unduly deterred |



Operating cost allocations

| | Directly Attributable | | | Not Directly Attributable | | | Arm's Length Deduction | OVABAA Allocation Increase |
|------------------------------|-----------------------|-------------|---------|---------------------------|-------------|---------|------------------------|----------------------------|
| | Network | Non-Network | Total | Network | Non-Network | Total | | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| Alpine Energy | 5,539 | 9,197 | 14,736 | 0 | 10,160 | 10,160 | 0 | 0 |
| Aurora Energy | 20,633 | 27,638 | 48,271 | 0 | 0 | 0 | 0 | 0 |
| Buller Electricity | 1,293 | 2,821 | 4,114 | 0 | 0 | 0 | 0 | 0 |
| Centralines | 2,671 | 3,335 | 6,006 | 0 | 340 | 340 | 0 | 0 |
| Counties Energy | 8,644 | 4,704 | 13,348 | 0 | 11,124 | 11,124 | 0 | 0 |
| EA Networks | 3,970 | 5,341 | 9,311 | 0 | 6,138 | 6,138 | 0 | 0 |
| Electra | 6,470 | 7,817 | 14,287 | 0 | 2,823 | 2,823 | 0 | 0 |
| Electricity Invercargill | 2,080 | 3,003 | 5,084 | 0 | 502 | 502 | 0 | 0 |
| Firstlight Network | 6,162 | 6,732 | 12,894 | 0 | 0 | 0 | 0 | 0 |
| Horizon Energy Distribution | 3,967 | 6,895 | 10,861 | 0 | 416 | 416 | 0 | 0 |
| MainPower New Zealand | 6,037 | 5,668 | 11,705 | 0 | 9,170 | 9,170 | 0 | 0 |
| Marlborough Lines | 8,372 | 9,930 | 18,302 | 1,414 | 263 | 1,677 | 0 | 0 |
| Nelson Electricity | 905 | 1,446 | 2,351 | 0 | 0 | 0 | 0 | 0 |
| Network Tasman | 6,806 | 4,208 | 11,014 | 0 | 1,985 | 1,985 | 0 | 0 |
| Network Waitaki | 3,213 | 3,713 | 6,926 | 0 | 3,799 | 3,799 | 0 | 0 |
| Northpower | 19,149 | 12,288 | 31,436 | 0 | 5,093 | 5,093 | 0 | 0 |
| Orion New Zealand | 28,352 | 43,354 | 71,706 | 0 | 274 | 274 | 0 | 0 |
| OtagoNet Joint Venture | 6,211 | 3,819 | 10,030 | 0 | 0 | 0 | 0 | 0 |
| Powerco | 51,973 | 21,798 | 73,772 | 0 | 37,553 | 37,553 | 0 | 0 |
| Scanpower | 1,445 | 916 | 2,361 | 0 | 1,442 | 1,442 | 0 | 0 |
| The Lines Company | 6,294 | 5,599 | 11,893 | 0 | 4,042 | 4,042 | 0 | 0 |
| The Power Company | 10,845 | 6,281 | 17,126 | 0 | 739 | 739 | 0 | 0 |
| Top Energy | 9,197 | 7,997 | 17,195 | 0 | 6,554 | 6,554 | 0 | 0 |
| Unison Networks | 17,589 | 17,403 | 34,992 | 0 | 15,444 | 15,444 | 0 | 601 |
| Vector | 57,918 | 37,496 | 95,414 | 0 | 50,528 | 50,528 | 0 | 0 |
| Waipa Networks | 5,346 | 4,092 | 9,438 | 0 | 4,084 | 4,084 | 0 | 0 |
| WEL Networks | 11,018 | 9,673 | 20,691 | 0 | 15,188 | 15,188 | 0 | 0 |
| Wellington Electricity Lines | 14,897 | 19,184 | 34,081 | 1,522 | 733 | 2,255 | 0 | 0 |
| Westpower | 6,208 | 3,768 | 9,976 | 0 | 1,370 | 1,370 | 0 | 0 |
| Average | 11,490 | 10,211 | 21,701 | 101 | 6,544 | 6,645 | 0 | 21 |
| Median | 6,294 | 6,281 | 12,894 | 0 | 1,985 | 2,255 | 0 | 0 |
| Minimum | 905 | 916 | 2,351 | 0 | 0 | 0 | 0 | 0 |
| Maximum | 57,918 | 43,354 | 95,414 | 1,522 | 50,528 | 50,528 | 0 | 601 |
| Industry Total | 333,205 | 296,115 | 629,319 | 2,936 | 189,765 | 192,700 | 0 | 601 |

Forecast real operational expenditure by category (RY24-RY33 in constant prices)

| | Network Operational Expenditure | | | | | Total \$000 |
|------------------------------|--|--------------------------------|--|--|--|----------------|
| | Service Interruptions and Emergencies \$000 | Vegetation Management \$000 | Routine and Corrective Maintenance and Inspection \$000 | Asset Replacement and Renewal \$000 | | |
| | | | | | | |
| Alpine Energy | 21,000 | 12,500 | 33,200 | 3,420 | | 70,120 |
| Aurora Energy | 31,750 | 37,302 | 114,105 | 0 | | 183,157 |
| Buller Electricity | 2,775 | 3,372 | 2,974 | 833 | | 9,954 |
| Centralines | 4,150 | 7,542 | 1,903 | 8,940 | | 22,535 |
| Counties Energy | 29,531 | 23,000 | 29,469 | 9,416 | | 91,416 |
| EA Networks | 15,040 | 8,314 | 10,280 | 13,312 | | 46,947 |
| Electra | 21,351 | 17,240 | 16,618 | 21,131 | | 76,344 |
| Electricity Invercargill | 5,498 | 23 | 14,834 | 1,787 | | 22,142 |
| Firstlight Network | 30,318 | 16,506 | 28,738 | 6,453 | | 82,015 |
| Horizon Energy Distribution | 13,448 | 10,059 | 16,523 | 4,187 | | 44,217 |
| MainPower New Zealand | 10,000 | 11,220 | 44,646 | 0 | | 65,866 |
| Marlborough Lines | 13,000 | 21,800 | 42,050 | 7,500 | | 84,350 |
| Nelson Electricity | 1,683 | 414 | 890 | 3,713 | | 6,700 |
| Network Tasman | 20,297 | 13,246 | 26,234 | 21,416 | | 81,193 |
| Network Waitaki | 4,636 | 7,116 | 13,267 | 2,255 | | 27,274 |
| Northpower | 27,990 | 28,198 | 47,879 | 29,714 | | 133,775 |
| Orion New Zealand | 100,084 | 97,266 | 277,559 | 28,314 | | 503,223 |
| OtagoNet Joint Venture | 21,083 | 10,760 | 26,976 | 1,776 | | 60,595 |
| Powerco | 79,887 | 124,790 | 231,174 | 109,958 | | 545,809 |
| Scanpower | 3,869 | 6,555 | 2,420 | 4,370 | | 17,214 |
| The Lines Company | 19,702 | 16,524 | 18,152 | 5,846 | | 60,225 |
| The Power Company | 40,846 | 12,247 | 47,799 | 9,684 | | 110,576 |
| Top Energy | 14,120 | 23,262 | 22,472 | 16,842 | | 76,696 |
| Unison Networks | 27,589 | 31,763 | 37,016 | 50,601 | | 146,970 |
| Vector | 160,395 | 66,625 | 231,404 | 127,988 | | 586,413 |
| Waipa Networks | 14,260 | 15,323 | 7,775 | 7,241 | | 44,599 |
| WEL Networks | 35,263 | 17,120 | 20,394 | 30,389 | | 103,166 |
| Wellington Electricity Lines | 51,452 | 21,415 | 97,712 | 13,098 | | 183,678 |
| Westpower | 6,031 | 9,900 | 38,826 | 2,610 | | 57,367 |
| Average | 28,519 | 23,152 | 51,838 | 18,717 | | 122,225 |
| Median | 20,297 | 15,323 | 26,976 | 7,500 | | 76,344 |
| Minimum | 1,683 | 23 | 890 | 0 | | 6,700 |
| Maximum | 160,395 | 124,790 | 277,559 | 127,988 | | 586,413 |
| Industry Total | 827,047 | 671,403 | 1,503,289 | 542,797 | | 3,544,534 |

Forecast real operational expenditure by category (RY24-RY33 in constant prices) continued

| | Non-Network Operational Expenditure | | | Total Operational Expenditure \$000 |
|------------------------------|--|---------------------------|----------------|--|
| | System Operations and Network Support \$000 | Business Support \$000 | Total \$000 | |
| | | | | |
| Alpine Energy | 101,431 | 125,619 | 227,050 | 297,170 |
| Aurora Energy | 149,411 | 137,064 | 286,475 | 469,632 |
| Buller Electricity | 3,653 | 26,906 | 30,559 | 40,513 |
| Centralines | 3,200 | 32,190 | 35,390 | 57,925 |
| Counties Energy | 47,378 | 115,959 | 163,338 | 254,753 |
| EA Networks | 72,660 | 82,020 | 154,680 | 201,627 |
| Electra | 86,490 | 57,729 | 144,219 | 220,567 |
| Electricity Invercargill | 12,547 | 21,829 | 34,376 | 56,517 |
| Firstlight Network | 29,197 | 40,922 | 70,119 | 152,134 |
| Horizon Energy Distribution | 41,522 | 40,020 | 81,542 | 125,758 |
| MainPower New Zealand | 106,700 | 49,300 | 156,000 | 221,866 |
| Marlborough Lines | 52,200 | 53,000 | 105,200 | 189,550 |
| Nelson Electricity | 2,800 | 12,900 | 15,700 | 22,400 |
| Network Tasman | 37,721 | 29,310 | 67,031 | 148,224 |
| Network Waitaki | 45,957 | 45,885 | 91,842 | 119,116 |
| Northpower | 49,327 | 156,264 | 205,592 | 339,368 |
| Orion New Zealand | 301,503 | 433,112 | 734,615 | 1,237,838 |
| OtagoNet Joint Venture | 19,931 | 20,268 | 40,199 | 100,794 |
| Powerco | 281,610 | 457,720 | 739,330 | 1,285,139 |
| Scanpower | 11,423 | 19,074 | 30,497 | 47,711 |
| The Lines Company | 30,272 | 68,196 | 98,468 | 158,693 |
| The Power Company | 37,320 | 43,834 | 81,154 | 191,729 |
| Top Energy | 76,547 | 77,331 | 153,878 | 230,574 |
| Unison Networks | 97,068 | 251,222 | 348,290 | 495,259 |
| Vector | 536,118 | 474,227 | 1,010,345 | 1,596,760 |
| Waipa Networks | 36,016 | 85,570 | 121,586 | 166,185 |
| WEL Networks | 97,839 | 175,280 | 273,119 | 376,285 |
| Wellington Electricity Lines | 90,684 | 146,343 | 237,027 | 420,705 |
| Westpower | 43,910 | 22,648 | 66,557 | 123,924 |
| Average | 86,291 | 113,853 | 200,144 | 322,370 |
| Median | 47,378 | 57,729 | 121,586 | 191,729 |
| Minimum | 2,800 | 12,900 | 15,700 | 22,400 |
| Maximum | 536,118 | 474,227 | 1,010,345 | 1,596,760 |
| Industry Total | 2,502,434 | 3,301,741 | 5,804,176 | 9,348,717 |

Forecast nominal operational expenditure by category (RY24-RY33)

| | Network Operational Expenditure | | | | | Total \$000 |
|------------------------------|--|--------------------------------|--|--|--|----------------|
| | Service Interruptions and Emergencies \$000 | Vegetation Management \$000 | Routine and Corrective Maintenance and Inspection \$000 | Asset Replacement and Renewal \$000 | | |
| | | | | | | |
| Alpine Energy | 23,335 | 13,938 | 36,837 | 3,800 | | 77,910 |
| Aurora Energy | 37,069 | 43,552 | 132,327 | 0 | | 212,949 |
| Buller Electricity | 3,089 | 3,753 | 3,306 | 927 | | 11,075 |
| Centralines | 4,748 | 8,624 | 2,185 | 10,168 | | 25,725 |
| Counties Energy | 33,913 | 26,198 | 33,931 | 10,708 | | 104,750 |
| EA Networks | 17,389 | 9,609 | 11,872 | 15,377 | | 54,247 |
| Electra | 24,450 | 19,723 | 18,891 | 25,102 | | 88,168 |
| Electricity Invercargill | 6,229 | 26 | 16,804 | 2,011 | | 25,070 |
| Firstlight Network | 37,442 | 20,333 | 35,345 | 7,713 | | 100,833 |
| Horizon Energy Distribution | 14,763 | 11,043 | 18,194 | 4,597 | | 48,597 |
| MainPower New Zealand | 11,963 | 13,419 | 53,237 | 0 | | 78,619 |
| Marlborough Lines | 14,828 | 24,777 | 47,896 | 8,555 | | 96,056 |
| Nelson Electricity | 1,892 | 465 | 1,001 | 4,175 | | 7,532 |
| Network Tasman | 22,661 | 14,790 | 29,275 | 23,909 | | 90,635 |
| Network Waitaki | 5,250 | 8,064 | 15,030 | 2,539 | | 30,883 |
| Northpower | 31,725 | 31,899 | 54,328 | 33,652 | | 151,604 |
| Orion New Zealand | 111,606 | 110,695 | 313,917 | 31,587 | | 567,805 |
| OtagoNet Joint Venture | 23,784 | 12,103 | 30,552 | 1,992 | | 68,431 |
| Powerco | 94,613 | 147,199 | 276,003 | 130,558 | | 648,373 |
| Scanpower | 4,237 | 7,177 | 2,650 | 4,786 | | 18,849 |
| The Lines Company | 22,111 | 18,544 | 20,371 | 6,561 | | 67,587 |
| The Power Company | 46,079 | 13,816 | 53,908 | 10,910 | | 124,714 |
| Top Energy | 16,016 | 26,391 | 25,490 | 19,104 | | 87,000 |
| Unison Networks | 31,507 | 36,350 | 42,362 | 57,909 | | 168,128 |
| Vector | 185,119 | 77,136 | 267,035 | 146,325 | | 675,617 |
| Waipa Networks | 15,614 | 16,778 | 8,512 | 7,902 | | 48,807 |
| WEL Networks | 38,778 | 18,796 | 22,453 | 33,438 | | 113,466 |
| Wellington Electricity Lines | 60,178 | 24,983 | 113,944 | 15,364 | | 214,469 |
| Westpower | 6,912 | 11,333 | 44,504 | 2,962 | | 65,711 |
| Average | 32,666 | 26,604 | 59,730 | 21,470 | | 140,469 |
| Median | 22,661 | 16,778 | 30,552 | 8,555 | | 87,000 |
| Minimum | 1,892 | 26 | 1,001 | 0 | | 7,532 |
| Maximum | 185,119 | 147,199 | 313,917 | 146,325 | | 675,617 |
| Industry Total | 947,300 | 771,516 | 1,732,158 | 622,632 | | 4,073,610 |

Forecast nominal operational expenditure by category (RY24-RY33) continued

| | Non-Network Operational Expenditure | | | Total Operational Expenditure \$000 |
|------------------------------|--|---------------------------|----------------|--|
| | System Operations and Network Support \$000 | Business Support \$000 | Total \$000 | |
| Alpine Energy | 112,743 | 139,705 | 252,448 | 330,358 |
| Aurora Energy | 175,119 | 159,800 | 334,919 | 547,868 |
| Buller Electricity | 4,063 | 29,132 | 33,195 | 44,270 |
| Centralines | 3,661 | 36,806 | 40,467 | 66,192 |
| Counties Energy | 54,610 | 132,882 | 187,492 | 292,242 |
| EA Networks | 83,799 | 94,789 | 178,588 | 232,835 |
| Electra | 102,819 | 68,777 | 171,594 | 259,763 |
| Electricity Invercargill | 14,216 | 24,738 | 38,955 | 64,025 |
| Firstlight Network | 36,684 | 51,186 | 87,870 | 188,703 |
| Horizon Energy Distribution | 45,561 | 43,934 | 89,495 | 138,092 |
| MainPower New Zealand | 127,641 | 58,976 | 186,617 | 265,235 |
| Marlborough Lines | 59,569 | 60,453 | 120,023 | 216,079 |
| Nelson Electricity | 3,066 | 14,125 | 17,191 | 24,723 |
| Network Tasman | 42,011 | 32,638 | 74,649 | 165,284 |
| Network Waitaki | 51,591 | 53,311 | 104,902 | 135,785 |
| Northpower | 55,098 | 175,766 | 230,863 | 382,467 |
| Orion New Zealand | 348,625 | 500,249 | 848,874 | 1,416,679 |
| OtagoNet Joint Venture | 22,485 | 22,860 | 45,345 | 113,776 |
| Powerco | 317,377 | 511,655 | 829,032 | 1,477,405 |
| Scanpower | 12,507 | 20,885 | 33,393 | 52,242 |
| The Lines Company | 34,006 | 76,522 | 110,528 | 178,116 |
| The Power Company | 42,137 | 49,482 | 91,619 | 216,332 |
| Top Energy | 86,805 | 87,625 | 174,430 | 261,430 |
| Unison Networks | 111,143 | 287,650 | 398,793 | 566,922 |
| Vector | 619,234 | 546,876 | 1,166,110 | 1,841,726 |
| Waipa Networks | 39,421 | 93,697 | 133,118 | 181,924 |
| WEL Networks | 107,417 | 192,440 | 299,857 | 413,323 |
| Wellington Electricity Lines | 105,920 | 170,931 | 276,851 | 491,320 |
| Westpower | 50,338 | 26,193 | 76,531 | 142,242 |
| Average | 98,954 | 129,796 | 228,750 | 369,219 |
| Median | 54,610 | 68,777 | 133,118 | 216,332 |
| Minimum | 3,066 | 14,125 | 17,191 | 24,723 |
| Maximum | 619,234 | 546,876 | 1,166,110 | 1,841,726 |
| Industry Total | 2,869,667 | 3,764,082 | 6,633,746 | 10,707,357 |

8. Capital expenditure

Definitions

Capital Expenditure =

Costs incurred in the acquisition or development of an asset that is, or is intended to be, included in the value of assets commissioned in the regulatory asset base

Expenditure on Assets =

Capital Expenditure – Cost of Financing + Value of Capital Contributions – Value of Vested Assets

Network Expenditure
on Assets =

Expenditure on Assets related to the provision of electricity lines services that is directly related to any network asset

Non-Network Expenditure
on Assets =

Expenditure on Assets related to the provision of electricity lines services that is not directly related to any network asset

8

Capital expenditure



Expenditure on Asset ratios

| | Expenditure on Assets Per Energy Delivered to ICPs | | | Expenditure on Assets Per Connection | | | |
|------------------------------|--|-------------|---------|--------------------------------------|-------------|--------|--|
| | Network | Non-Network | Total | Network | Non-Network | Total | |
| | \$/GWh | \$/GWh | \$/GWh | \$/ICP | \$/ICP | \$/ICP | |
| Alpine Energy | 32,591 | 1,403 | 33,994 | 789 | 34 | 823 | |
| Aurora Energy | 69,665 | 2,018 | 71,683 | 1,001 | 29 | 1,030 | |
| Buller Electricity | 46,026 | 19,562 | 65,588 | 470 | 200 | 670 | |
| Centralines | 66,741 | 37,094 | 103,835 | 781 | 434 | 1,215 | |
| Counties Energy | 82,355 | 12,572 | 94,926 | 1,141 | 174 | 1,315 | |
| EA Networks | 24,509 | 668 | 25,177 | 673 | 18 | 692 | |
| Electra | 26,952 | 4,730 | 31,682 | 250 | 44 | 293 | |
| Electricity Invercargill | 21,193 | 0 | 21,193 | 301 | 0 | 301 | |
| Firstlight Network | 52,941 | 223 | 53,165 | 586 | 2 | 588 | |
| Horizon Energy Distribution | 13,868 | 360 | 14,228 | 296 | 8 | 303 | |
| MainPower New Zealand | 43,264 | 4,243 | 47,507 | 608 | 60 | 668 | |
| Marlborough Lines | 26,634 | 4,618 | 31,252 | 387 | 67 | 455 | |
| Nelson Electricity | 13,312 | 110 | 13,422 | 194 | 2 | 196 | |
| Network Tasman | 20,416 | 737 | 21,153 | 316 | 11 | 327 | |
| Network Waitaki | 32,745 | 1,398 | 34,143 | 664 | 28 | 692 | |
| Northpower | 35,892 | 1,025 | 36,917 | 451 | 13 | 464 | |
| Orion New Zealand | 34,517 | 1,192 | 35,709 | 534 | 18 | 553 | |
| OtagoNet Joint Venture | 43,569 | 0 | 43,569 | 1,041 | 0 | 1,041 | |
| Powerco | 56,450 | 2,347 | 58,797 | 785 | 33 | 818 | |
| Scanpower | 33,282 | 5,664 | 38,945 | 381 | 65 | 445 | |
| The Lines Company | 36,889 | 1,574 | 38,463 | 561 | 24 | 585 | |
| The Power Company | 39,197 | 0 | 39,197 | 864 | 0 | 864 | |
| Top Energy | 45,129 | 3,166 | 48,295 | 445 | 31 | 476 | |
| Unison Networks | 44,076 | 5,909 | 49,985 | 625 | 84 | 709 | |
| Vector | 41,223 | 2,627 | 43,850 | 578 | 37 | 615 | |
| Waipa Networks | 32,674 | 13,281 | 45,955 | 471 | 191 | 662 | |
| WEL Networks | 50,225 | 8,873 | 59,098 | 674 | 119 | 793 | |
| Wellington Electricity Lines | 22,616 | 727 | 23,344 | 298 | 10 | 308 | |
| Westpower | 19,228 | 442 | 19,670 | 301 | 7 | 307 | |
| Average | 38,213 | 4,709 | 42,922 | 568 | 60 | 628 | |
| Median | 35,892 | 1,574 | 38,945 | 561 | 29 | 615 | |
| Minimum | 13,312 | 0 | 13,422 | 194 | 0 | 196 | |
| Maximum | 82,355 | 37,094 | 103,835 | 1,141 | 434 | 1,315 | |

| | Expenditure on Assets Per Maximum Coincident System Demand | | | Expenditure on Assets Per Circuit Length | | |
|---------|--|-------------|--------|--|-------------|-------|
| | Network | Non-Network | Total | Network | Non-Network | Total |
| | \$/MW | \$/MW | \$/MW | \$/km | \$/km | \$/km |
| 186,301 | 8,017 | 194,318 | 6,051 | 260 | 6,312 | |
| 305,878 | 8,860 | 314,738 | 15,093 | 437 | 15,530 | |
| 215,412 | 91,553 | 306,965 | 3,483 | 1,481 | 4,964 | |
| 322,591 | 179,292 | 501,883 | 3,860 | 2,145 | 6,006 | |
| 399,940 | 61,052 | 460,993 | 15,116 | 2,308 | 17,424 | |
| 88,810 | 2,421 | 91,231 | 4,360 | 119 | 4,479 | |
| 107,056 | 18,787 | 125,843 | 4,858 | 853 | 5,711 | |
| 73,813 | 0 | 73,813 | 7,967 | 0 | 7,967 | |
| 231,841 | 978 | 232,820 | 3,843 | 16 | 3,859 | |
| 79,294 | 2,061 | 81,356 | 2,836 | 74 | 2,910 | |
| 219,167 | 21,495 | 240,662 | 5,161 | 506 | 5,667 | |
| 137,776 | 23,888 | 161,665 | 2,953 | 512 | 3,465 | |
| 53,530 | 442 | 53,972 | 6,094 | 50 | 6,144 | |
| 103,551 | 3,740 | 107,291 | 3,589 | 130 | 3,718 | |
| 136,620 | 5,832 | 142,452 | 4,643 | 198 | 4,841 | |
| 180,482 | 5,155 | 185,637 | 4,592 | 131 | 4,723 | |
| 178,019 | 6,148 | 184,167 | 9,790 | 338 | 10,129 | |
| 276,376 | 0 | 276,376 | 4,363 | 0 | 4,363 | |
| 287,490 | 11,954 | 299,445 | 9,627 | 400 | 10,027 | |
| 157,134 | 26,739 | 183,874 | 2,450 | 417 | 2,866 | |
| 179,949 | 7,679 | 187,628 | 3,045 | 130 | 3,175 | |
| 201,584 | 0 | 201,584 | 3,630 | 0 | 3,630 | |
| 192,123 | 13,477 | 205,599 | 3,549 | 249 | 3,798 | |
| 210,921 | 28,277 | 239,198 | 7,928 | 1,063 | 8,991 | |
| 198,364 | 12,642 | 211,006 | 17,918 | 1,142 | 19,060 | |
| 160,921 | 65,409 | 226,330 | 5,957 | 2,421 | 8,378 | |
| 236,438 | 41,772 | 278,211 | 11,828 | 2,090 | 13,918 | |
| 96,165 | 3,092 | 99,258 | 10,697 | 344 | 11,041 | |
| 108,871 | 2,504 | 111,375 | 1,938 | 45 | 1,983 | |
| 183,670 | 22,527 | 206,196 | 6,456 | 616 | 7,072 | |
| 180,482 | 8,017 | 194,318 | 4,643 | 338 | 5,667 | |
| 53,530 | 0 | 53,972 | 1,938 | 0 | 1,983 | |
| 399,940 | 179,292 | 501,883 | 17,918 | 2,421 | 19,060 | |

Expenditure on Assets ratios continued

| | Expenditure on Assets Per Distribution Transformer Capacity (EDB Owned) | | |
|------------------------------|--|-------------|---------|
| | Network | Non-Network | Total |
| | \$/MVA | \$/MVA | \$/MVA |
| Alpine Energy | 40,473 | 1,742 | 42,215 |
| Aurora Energy | 98,667 | 2,858 | 101,525 |
| Buller Electricity | 59,950 | 25,479 | 85,429 |
| Centralines | 67,262 | 37,383 | 104,645 |
| Counties Energy | 122,917 | 18,764 | 141,681 |
| EA Networks | 23,122 | 630 | 23,752 |
| Electra | 34,411 | 6,039 | 40,449 |
| Electricity Invercargill | 33,931 | 0 | 33,931 |
| Firstlight Network | 68,143 | 288 | 68,431 |
| Horizon Energy Distribution | 27,259 | 709 | 27,968 |
| MainPower New Zealand | 45,545 | 4,467 | 50,012 |
| Marlborough Lines | 28,813 | 4,996 | 33,809 |
| Nelson Electricity | 18,047 | 149 | 18,196 |
| Network Tasman | 28,333 | 1,023 | 29,357 |
| Network Waitaki | 38,152 | 1,628 | 39,781 |
| Northpower | 47,408 | 1,354 | 48,763 |
| Orion New Zealand | 50,418 | 1,741 | 52,159 |
| OtagoNet Joint Venture | 85,337 | 0 | 85,337 |
| Powerco | 78,971 | 3,284 | 82,255 |
| Scanpower | 34,360 | 5,847 | 40,207 |
| The Lines Company | 51,842 | 2,212 | 54,054 |
| The Power Company | 67,508 | 0 | 67,508 |
| Top Energy | 50,358 | 3,532 | 53,890 |
| Unison Networks | 58,454 | 7,837 | 66,290 |
| Vector | 70,264 | 4,478 | 74,742 |
| Waipa Networks | 46,320 | 18,827 | 65,147 |
| WEL Networks | 68,423 | 12,089 | 80,512 |
| Wellington Electricity Lines | 34,542 | 1,111 | 35,653 |
| Westpower | 27,710 | 637 | 28,348 |
| Average | 51,964 | 5,831 | 57,795 |
| Median | 47,408 | 2,212 | 52,159 |
| Minimum | 18,047 | 0 | 18,196 |
| Maximum | 122,917 | 37,383 | 141,681 |

Composition of capital expenditure

Definitions

| | |
|--|---|
| Consumer Connection = | Expenditure on Assets where the primary driver is the establishment of a new customer connection point or alterations to an existing customer connection point |
| System Growth = | Expenditure on Assets where the primary driver is a change in demand or generation on a part of the network which results in a requirement for either additional capacity to meet this demand or additional investment to maintain current security and/or quality of supply standards due to the increased demand |
| Asset Replacement and Renewal = | Expenditure on Assets where the primary driver is the need to maintain network asset integrity so as to maintain current security and/or quality of supply standards and includes expenditure to replace or renew assets due to physical deterioration, obsolescence, preventative replacement, or the need to ensure ongoing physical security |
| Asset Relocations = | Expenditure on Assets where the primary driver is the need to relocate assets due to third party requests, such as for the purpose of road widening |
| Reliability, Safety and Environment (Quality of Supply) = | Expenditure on Assets where the primary driver is the need to meet improved security and/or quality of supply standards |
| Reliability, Safety and Environment (Legislative and Regulatory) = | Expenditure on Assets where the primary driver is a new regulatory or legal requirement that results in the creation of, or modification to, network assets |
| Reliability, Safety and Environment (Other) = | Expenditure on Assets where the primary driver is to improve network reliability or safety or to mitigate the environmental impacts of the network |
| Cost of Financing = | The cost of financing incurred by and accumulated during the construction phase of a project that creates a new network asset |
| Value of Capital Contributions = | The value of capital contributions received or expected to be received in respect of the cost of new network assets |
| Value of Vested Assets = | The consideration incurred or expected to be incurred in respect of vested assets that create new network assets |

Capital expenditure categories

| | Network Expenditure on Assets | | | | | | |
|------------------------------|-------------------------------|---------------|-------------------------------|-------------------|---|--|--|
| | Consumer Connection | System Growth | Asset Replacement and Renewal | Asset Relocations | Reliability, Safety and Environment (Quality of Supply) | Reliability, Safety and Environment (Legislative and Regulatory) | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | |
| Alpine Energy | 7,156 | 3,485 | 14,477 | 1 | 0 | 0 | |
| Aurora Energy | 15,246 | 17,514 | 54,604 | 3,728 | 1,172 | 0 | |
| Buller Electricity | 425 | 121 | 902 | 12 | 14 | 114 | |
| Centralines | 2,151 | 543 | 4,492 | 11 | 0 | 0 | |
| Counties Energy | 23,064 | 912 | 28,964 | 169 | 483 | 0 | |
| EA Networks | 4,835 | 1,140 | 6,010 | 202 | 1,173 | 0 | |
| Electra | 0 | 396 | 8,544 | 0 | 1,773 | 423 | |
| Electricity Invercargill | 704 | 0 | 3,821 | 6 | 307 | 0 | |
| Firstlight Network | 82 | 2,690 | 11,670 | 0 | 705 | 4 | |
| Horizon Energy Distribution | 235 | 112 | 6,169 | 0 | 379 | 10 | |
| MainPower New Zealand | 12,845 | 1,692 | 10,668 | 0 | 236 | 54 | |
| Marlborough Lines | 425 | 530 | 4,450 | 481 | 4,070 | 0 | |
| Nelson Electricity | 8 | 45 | 1,100 | 255 | 249 | 0 | |
| Network Tasman | 1,141 | 3,416 | 6,091 | 0 | 2,095 | 0 | |
| Network Waitaki | 1,766 | 1,046 | 4,812 | 1 | 965 | 268 | |
| Northpower | 5,821 | 2,670 | 17,501 | 514 | 358 | 60 | |
| Orion New Zealand | 45,521 | 5,636 | 33,441 | 957 | 22,780 | 0 | |
| OtagoNet Joint Venture | 7,426 | 1,020 | 10,405 | 383 | 195 | 0 | |
| Powerco | 76,847 | 85,401 | 96,181 | 8,704 | 8,167 | 106 | |
| Scanpower | 145 | 145 | 2,121 | 0 | 166 | 0 | |
| The Lines Company | 2,702 | 195 | 8,308 | 0 | 803 | 0 | |
| The Power Company | 13,101 | 3,278 | 11,263 | 285 | 576 | 0 | |
| Top Energy | 5,130 | 860 | 7,129 | 0 | 0 | 0 | |
| Unison Networks | 26,825 | 1,047 | 40,306 | 4,207 | 1,209 | 0 | |
| Vector | 129,468 | 45,442 | 145,389 | 25,548 | 26 | 6 | |
| Waipa Networks | 8,141 | 2,281 | 2,102 | 492 | 446 | 0 | |
| WEL Networks | 32,212 | 6,795 | 18,162 | 3,834 | 384 | 357 | |
| Wellington Electricity Lines | 16,483 | 4,230 | 26,281 | 2,260 | 1,522 | 0 | |
| Westpower | 494 | 578 | 1,676 | 0 | 311 | 0 | |
| Average | 15,186 | 6,663 | 20,243 | 1,795 | 1,744 | 48 | |
| Median | 5,130 | 1,047 | 8,544 | 169 | 446 | 0 | |
| Minimum | 0 | 0 | 902 | 0 | 0 | 0 | |
| Maximum | 129,468 | 85,401 | 145,389 | 25,548 | 22,780 | 423 | |
| Industry Total | 440,399 | 193,221 | 587,041 | 52,051 | 50,563 | 1,402 | |

| | Network Expenditure on Assets | | Non-Network Expenditure on Assets | Total Expenditure on Assets | Cost of Financing | Value of Capital Contributions | Value of Vested Assets | Capital Expenditure |
|--|--|-----------|---|-----------------------------------|----------------------|--------------------------------------|---------------------------|------------------------|
| | Reliability, Safety and Environment (Other) | Total | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| | 1,350 | 26,469 | 1,139 | 27,608 | 0 | 6,935 | 0 | 20,674 |
| | 2,156 | 94,420 | 2,735 | 97,155 | 400 | 10,939 | 0 | 86,616 |
| | 676 | 2,264 | 962 | 3,226 | 0 | 509 | 99 | 2,815 |
| | 0 | 7,197 | 4,000 | 11,197 | 0 | 1,499 | 0 | 9,698 |
| | 0 | 53,592 | 8,181 | 61,773 | 397 | 23,098 | 0 | 39,072 |
| | 470 | 13,830 | 377 | 14,207 | 0 | 1,504 | 0 | 12,703 |
| | 426 | 11,562 | 2,029 | 13,591 | 109 | 0 | 58 | 13,759 |
| | 456 | 5,294 | 0 | 5,294 | 0 | 413 | 0 | 4,881 |
| | 9 | 15,160 | 64 | 15,224 | 0 | 0 | 0 | 15,224 |
| | 537 | 7,442 | 193 | 7,635 | 104 | 0 | 0 | 7,739 |
| | 1,332 | 26,826 | 2,631 | 29,457 | 0 | 6,953 | 0 | 22,504 |
| | 437 | 10,393 | 1,802 | 12,195 | 0 | 295 | 0 | 11,900 |
| | 146 | 1,803 | 15 | 1,818 | 0 | 0 | 0 | 1,818 |
| | 602 | 13,345 | 482 | 13,827 | 0 | 31 | 819 | 14,615 |
| | 0 | 8,858 | 378 | 9,236 | 0 | 2,215 | 0 | 7,021 |
| | 1,500 | 28,425 | 812 | 29,237 | 633 | 7,392 | 0 | 22,478 |
| | 8,243 | 116,577 | 4,026 | 120,603 | 0 | 3,314 | 0 | 117,289 |
| | 722 | 20,151 | 0 | 20,151 | 0 | 2,066 | 0 | 18,085 |
| | 4,609 | 280,015 | 11,644 | 291,659 | 2,276 | 54,235 | 0 | 239,700 |
| | 0 | 2,577 | 439 | 3,016 | 0 | 0 | 0 | 3,016 |
| | 1,471 | 13,479 | 575 | 14,054 | 34 | 1,836 | 0 | 12,252 |
| | 3,735 | 32,239 | 0 | 32,239 | 0 | 9,778 | 0 | 22,462 |
| | 1,883 | 15,003 | 1,052 | 16,055 | 58 | 4,280 | 0 | 11,833 |
| | 407 | 74,003 | 9,921 | 83,924 | 862 | 11,360 | 0 | 73,426 |
| | 2,956 | 348,835 | 22,232 | 371,067 | -117 | 163,771 | 0 | 207,179 |
| | 252 | 13,713 | 5,574 | 19,287 | 0 | 5,437 | 0 | 13,851 |
| | 4,695 | 66,439 | 11,738 | 78,177 | 0 | 13,545 | 0 | 64,632 |
| | 946 | 51,722 | 1,663 | 53,385 | 377 | 10,804 | 0 | 42,959 |
| | 1,192 | 4,251 | 98 | 4,349 | 0 | 0 | 0 | 4,349 |
| | 1,421 | 47,099 | 3,268 | 50,367 | 177 | 11,800 | 34 | 38,778 |
| | 676 | 15,003 | 1,052 | 16,055 | 0 | 2,215 | 0 | 14,615 |
| | 0 | 1,803 | 0 | 1,818 | -117 | 0 | 0 | 1,818 |
| | 8,243 | 348,835 | 22,232 | 371,067 | 2,276 | 163,771 | 819 | 239,700 |
| | 41,208 | 1,365,884 | 94,762 | 1,460,646 | 5,133 | 342,207 | 976 | 1,124,549 |

Subcomponents of capital expenditure

Definitions

Energy Efficiency and Demand Side Management, Reduction of Energy Losses =

Expenditure where the primary driver is to improve the efficient provision of electricity line services by improving energy efficiency, encouraging demand side management, implementing initiatives that reduce electricity losses and reactive power flows on the network

Overhead to Underground Conversion =

Expenditure on assets incurred in developing underground circuits in circumstances where these primarily replace equivalent existing overhead circuits

Research and Development =

Expenditure where the primary driver for the expenditure relates to increasing the efficient provision of electricity lines services



Subcomponents of capital expenditure

| | Subcomponents | | |
|------------------------------|---|---|---------------------------------|
| | Energy Efficiency and Demand Side Management, Reduction of Energy Losses | Overhead to Underground Conversion | Research and Development |
| | | \$000 | \$000 |
| Alpine Energy | 0 | 245 | 0 |
| Aurora Energy | 0 | 0 | 0 |
| Buller Electricity | 0 | 0 | 0 |
| Centralines | 0 | 0 | 0 |
| Counties Energy | 0 | 601 | 0 |
| EA Networks | 0 | 2,754 | 0 |
| Electra | 0 | 0 | 0 |
| Electricity Invercargill | 0 | 0 | 0 |
| Firstlight Network | 0 | 0 | 0 |
| Horizon Energy Distribution | 0 | 0 | 0 |
| MainPower New Zealand | 0 | 0 | 0 |
| Marlborough Lines | 0 | 0 | 0 |
| Nelson Electricity | 0 | 0 | 0 |
| Network Tasman | 0 | 0 | 0 |
| Network Waitaki | 0 | 0 | 0 |
| Northpower | 0 | 0 | 0 |
| Orion New Zealand | 0 | 0 | 0 |
| OtagoNet Joint Venture | 0 | 0 | 0 |
| Powerco | 59 | 1,736 | 727 |
| Scanpower | 0 | 0 | 0 |
| The Lines Company | 0 | 0 | 0 |
| The Power Company | 0 | 0 | 0 |
| Top Energy | 0 | 0 | 0 |
| Unison Networks | 0 | 1,973 | 0 |
| Vector | 0 | 11,133 | 8,835 |
| Waipa Networks | 0 | 1,109 | 0 |
| WEL Networks | 1,015 | 0 | 0 |
| Wellington Electricity Lines | 244 | 778 | 0 |
| Westpower | 0 | 0 | 0 |
| Average | 45 | 701 | 330 |
| Median | 0 | 0 | 0 |
| Minimum | 0 | 0 | 0 |
| Maximum | 1,015 | 11,133 | 8,835 |
| Industry Total | 1,318 | 20,329 | 9,562 |

Forecast real expenditure on assets by category (RY24-RY33 in constant prices)

| | Network Expenditure on Assets | | | | | |
|------------------------------|-------------------------------|------------------------|--|----------------------------|--|---------|
| | Consumer Connection \$000 | System Growth \$000 | Asset Replacement and Renewal \$000 | Asset Relocations \$000 | Reliability, Safety and Environment (Quality of Supply) \$000 | |
| | | | | | | |
| Alpine Energy | 54,000 | 44,885 | 158,472 | 4,450 | | 2,100 |
| Aurora Energy | 141,992 | 95,499 | 528,445 | 33,989 | | 7,823 |
| Buller Electricity | 1,209 | 296 | 12,227 | 0 | | 305 |
| Centralines | 23,162 | 14,285 | 19,300 | 0 | | 6,510 |
| Counties Energy | 96,500 | 81,740 | 195,648 | 3,031 | | 16,183 |
| EA Networks | 38,083 | 36,545 | 39,320 | 0 | | 7,668 |
| Electra | 4,430 | 48,840 | 110,991 | 0 | | 43,807 |
| Electricity Invercargill | 7,992 | 2,736 | 51,551 | 70 | | 2,635 |
| Firstlight Network | 1,248 | 30,267 | 103,367 | 513 | | 7,720 |
| Horizon Energy Distribution | 3,140 | 32,570 | 69,326 | 312 | | 4,410 |
| MainPower New Zealand | 60,000 | 57,887 | 98,397 | 0 | | 19,798 |
| Marlborough Lines | 2,245 | 29,899 | 122,959 | 5,889 | | 7,524 |
| Nelson Electricity | 1,255 | 2,725 | 10,785 | 210 | | 2,770 |
| Network Tasman | 11,750 | 90,080 | 54,410 | 5,000 | | 9,655 |
| Network Waitaki | 15,090 | 55,199 | 62,220 | 221 | | 4,853 |
| Northpower | 58,030 | 64,387 | 288,466 | 3,340 | | 3,020 |
| Orion New Zealand | 762,656 | 1,025,441 | 787,026 | 95,891 | | 155,181 |
| OtagoNet Joint Venture | 58,447 | 20,216 | 123,407 | 2,162 | | 3,767 |
| Powerco | 1,028,464 | 1,030,358 | 1,078,806 | 28,849 | | 182,389 |
| Scanpower | 250 | 23,957 | 12,705 | 0 | | 120 |
| The Lines Company | 24,009 | 34,600 | 118,332 | 953 | | 10,766 |
| The Power Company | 72,862 | 39,509 | 166,334 | 1,301 | | 6,516 |
| Top Energy | 28,194 | 33,748 | 83,066 | 0 | | 28,023 |
| Unison Networks | 179,731 | 236,028 | 368,539 | 10,514 | | 10,075 |
| Vector | 948,922 | 900,900 | 1,162,917 | 334,529 | | 0 |
| Waipa Networks | 67,223 | 37,155 | 29,693 | 1,890 | | 1,755 |
| WEL Networks | 196,209 | 165,908 | 227,441 | 38,275 | | 14,441 |
| Wellington Electricity Lines | 219,662 | 555,225 | 334,008 | 8,133 | | 25,521 |
| Westpower | 2,600 | 2,400 | 10,504 | 0 | | 7,660 |
| Average | 141,702 | 165,286 | 221,678 | 19,984 | | 20,448 |
| Median | 38,083 | 39,509 | 110,991 | 1,301 | | 7,660 |
| Minimum | 250 | 296 | 10,504 | 0 | | 0 |
| Maximum | 1,028,464 | 1,030,358 | 1,162,917 | 334,529 | | 182,389 |
| Industry Total | 4,109,353 | 4,793,286 | 6,428,663 | 579,523 | | 592,995 |

| Network Expenditure on Assets | | | Non-Network Expenditure on Assets | Total Expenditure on Assets |
|--|---|------------|--------------------------------------|--------------------------------|
| Reliability, Safety and Environment (Legislative and Regulatory) | Reliability, Safety and Environment (Other) | Total | | |
| \$000 | \$000 | \$000 | \$000 | \$000 |
| 0 | 12,770 | 276,677 | 26,680 | 303,357 |
| 0 | 0 | 807,749 | 26,125 | 833,874 |
| 433 | 1,309 | 15,778 | 10,159 | 25,937 |
| 0 | 1,785 | 65,042 | 6,813 | 71,855 |
| 300 | 4,035 | 397,437 | 50,709 | 448,146 |
| 325 | 4,188 | 126,128 | 5,072 | 131,200 |
| 2,519 | 3,701 | 214,288 | 30,681 | 244,967 |
| 0 | 7,611 | 72,595 | 0 | 72,595 |
| 573 | 4,127 | 147,814 | 2,943 | 150,758 |
| 1,519 | 8,355 | 119,631 | 3,303 | 122,934 |
| 0 | 9,514 | 245,596 | 5,225 | 250,821 |
| 0 | 14,682 | 183,199 | 26,855 | 210,054 |
| 0 | 1,550 | 19,295 | 460 | 19,755 |
| 0 | 5,715 | 176,610 | 11,018 | 187,628 |
| 0 | 0 | 137,583 | 11,949 | 149,532 |
| 0 | 8,388 | 425,629 | 10,708 | 436,337 |
| 0 | 45,801 | 2,871,997 | 111,604 | 2,983,601 |
| 0 | 9,958 | 217,956 | 27 | 217,983 |
| 9,313 | 71,860 | 3,430,039 | 106,938 | 3,536,977 |
| 0 | 200 | 37,232 | 2,080 | 39,312 |
| 0 | 11,313 | 199,973 | 18,769 | 218,742 |
| 0 | 26,747 | 313,268 | 15 | 313,283 |
| 0 | 0 | 173,031 | 12,242 | 185,273 |
| 0 | 46,431 | 851,319 | 115,377 | 966,696 |
| 0 | 608,447 | 3,955,715 | 323,928 | 4,279,643 |
| 0 | 10,180 | 147,896 | 19,403 | 167,299 |
| 5,258 | 44,218 | 691,750 | 71,287 | 763,037 |
| 1,300 | 2,420 | 1,146,269 | 38,237 | 1,184,506 |
| 225 | 4,710 | 28,099 | 0 | 28,099 |
| 751 | 33,449 | 603,296 | 36,159 | 639,455 |
| 0 | 7,611 | 199,973 | 11,949 | 217,983 |
| 0 | 0 | 15,778 | 0 | 19,755 |
| 9,313 | 608,447 | 3,955,715 | 323,928 | 4,279,643 |
| 21,766 | 970,014 | 17,495,597 | 1,048,606 | 18,544,201 |

Forecast nominal expenditure on assets by category (RY24-RY33)

| | Network Expenditure on Assets | | | | | |
|------------------------------|-------------------------------|---------------|-------------------------------|-------------------|---|--|
| | Consumer Connection | System Growth | Asset Replacement and Renewal | Asset Relocations | Reliability, Safety and Environment (Quality of Supply) | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | |
| Alpine Energy | 60,070 | 49,335 | 175,750 | 4,951 | 2,301 | |
| Aurora Energy | 166,981 | 108,101 | 592,054 | 39,461 | 9,082 | |
| Buller Electricity | 1,299 | 330 | 13,621 | 0 | 330 | |
| Centralines | 26,499 | 16,439 | 21,734 | 0 | 7,374 | |
| Counties Energy | 109,766 | 90,540 | 223,457 | 3,475 | 16,835 | |
| EA Networks | 43,764 | 42,374 | 44,170 | 0 | 8,587 | |
| Electra | 5,079 | 57,286 | 127,526 | 0 | 50,120 | |
| Electricity Invercargill | 8,760 | 3,108 | 59,461 | 77 | 2,876 | |
| Firstlight Network | 1,540 | 37,953 | 125,970 | 632 | 9,039 | |
| Horizon Energy Distribution | 3,458 | 35,373 | 76,630 | 341 | 4,983 | |
| MainPower New Zealand | 71,776 | 68,467 | 118,309 | 0 | 23,665 | |
| Marlborough Lines | 2,554 | 32,670 | 139,604 | 6,641 | 8,189 | |
| Nelson Electricity | 1,459 | 3,205 | 12,752 | 234 | 3,260 | |
| Network Tasman | 13,084 | 100,938 | 60,322 | 5,567 | 10,089 | |
| Network Waitaki | 17,100 | 62,453 | 70,336 | 232 | 5,366 | |
| Northpower | 65,780 | 71,045 | 329,617 | 3,788 | 3,192 | |
| Orion New Zealand | 887,102 | 1,197,734 | 903,068 | 107,428 | 172,972 | |
| OtagoNet Joint Venture | 66,131 | 23,205 | 140,592 | 2,208 | 4,139 | |
| Powerco | 1,189,288 | 1,226,018 | 1,285,430 | 32,514 | 219,722 | |
| Scanpower | 274 | 25,670 | 14,257 | 0 | 142 | |
| The Lines Company | 25,880 | 38,469 | 132,727 | 1,054 | 11,908 | |
| The Power Company | 79,935 | 44,967 | 187,613 | 1,468 | 7,229 | |
| Top Energy | 31,310 | 39,319 | 92,206 | 0 | 30,784 | |
| Unison Networks | 204,285 | 272,827 | 423,220 | 11,754 | 11,264 | |
| Vector | 1,170,219 | 1,131,150 | 1,453,984 | 420,351 | 0 | |
| Waipa Networks | 74,326 | 38,259 | 32,155 | 2,075 | 1,882 | |
| WEL Networks | 217,083 | 184,217 | 250,500 | 41,990 | 15,750 | |
| Wellington Electricity Lines | 253,351 | 650,075 | 390,378 | 9,500 | 29,868 | |
| Westpower | 2,937 | 2,751 | 11,620 | 0 | 8,208 | |
| Average | 165,555 | 194,975 | 258,933 | 23,991 | 23,419 | |
| Median | 43,764 | 44,967 | 127,526 | 1,468 | 8,208 | |
| Minimum | 274 | 330 | 11,620 | 0 | 0 | |
| Maximum | 1,189,288 | 1,226,018 | 1,453,984 | 420,351 | 219,722 | |
| Industry Total | 4,801,089 | 5,654,278 | 7,509,065 | 695,741 | 679,155 | |

| | Network Expenditure on Assets | | | Non-Network \$000 | Total \$000 |
|--------|---|--|----------------|----------------------|----------------|
| | Reliability, Safety and Environment (Legislative and Regulatory) \$000 | Reliability, Safety and Environment (Other) \$000 | Total \$000 | | |
| 0 | 14,044 | 306,451 | 31,295 | 337,746 | |
| 0 | 0 | 915,679 | 30,482 | 946,161 | |
| 461 | 1,443 | 17,483 | 11,248 | 28,730 | |
| 0 | 1,927 | 73,972 | 7,675 | 81,647 | |
| 300 | 4,554 | 448,926 | 57,458 | 506,384 | |
| 343 | 4,830 | 144,069 | 5,072 | 149,141 | |
| 2,668 | 4,105 | 246,781 | 33,058 | 279,840 | |
| 0 | 8,113 | 82,395 | 0 | 82,395 | |
| 635 | 5,235 | 181,005 | 3,576 | 184,581 | |
| 1,638 | 9,107 | 131,530 | 3,434 | 134,964 | |
| 0 | 11,253 | 293,470 | 6,187 | 299,657 | |
| 0 | 17,574 | 207,233 | 30,248 | 237,482 | |
| 0 | 1,824 | 22,734 | 538 | 23,272 | |
| 0 | 6,352 | 196,352 | 12,089 | 208,441 | |
| 0 | 0 | 155,487 | 12,216 | 167,703 | |
| 0 | 9,589 | 483,007 | 11,942 | 494,949 | |
| 0 | 48,516 | 3,316,820 | 125,638 | 3,442,458 | |
| 0 | 11,032 | 247,307 | 27 | 247,333 | |
| 10,028 | 85,253 | 4,048,253 | 117,816 | 4,166,069 | |
| 0 | 237 | 40,580 | 2,224 | 42,804 | |
| 0 | 12,158 | 222,196 | 18,769 | 240,965 | |
| 0 | 29,969 | 351,180 | 15 | 351,195 | |
| 0 | 0 | 193,620 | 13,615 | 207,235 | |
| 0 | 54,269 | 977,619 | 130,947 | 1,108,566 | |
| 0 | 775,421 | 4,951,125 | 400,776 | 5,351,901 | |
| 0 | 11,121 | 159,818 | 20,863 | 180,681 | |
| 5,437 | 48,081 | 763,058 | 77,423 | 840,481 | |
| 1,439 | 2,636 | 1,337,247 | 42,796 | 1,380,043 | |
| 50 | 5,134 | 30,700 | 0 | 30,700 | |
| 793 | 40,820 | 708,486 | 41,635 | 750,122 | |
| 0 | 8,113 | 222,196 | 12,216 | 240,965 | |
| 0 | 0 | 17,483 | 0 | 23,272 | |
| 10,028 | 775,421 | 4,951,125 | 400,776 | 5,351,901 | |
| 23,000 | 1,183,776 | 20,546,097 | 1,207,426 | 21,753,524 | |

9. Regulatory asset base

Definitions

Regulatory Asset Base
Roll Forward =

Total Opening Regulatory Asset Base – Total Depreciation
+ Total Revaluations + Assets Commissioned – Asset
Disposals + Lost and Found Assets Adjustment
+ Adjustment Resulting from Asset Allocation

Opening Regulatory Asset Base =

The sum of regulatory asset values for assets included
in the total opening regulatory asset base value

Depreciation (Standard) =

Depreciation based on standard physical lives

Depreciation (No Standard
Life Assets) =

Depreciation for assets with no standard lives

Depreciation (Modified Life Assets) =

Depreciation based on modified lives

Depreciation (Alternative
Depreciation in Accordance
with CPP) =

Depreciation calculated in accordance with
a CPP determination



Regulatory asset base – opening and depreciation

| | Opening Regulatory Asset Base | Depreciation | | | | | Total |
|------------------------------|-------------------------------------|--------------|----------------------------|-------------------------|--|-------|---------|
| | | Standard | No-Standard Life Assets | Modified Life Assets | Alternative Depreciation in Accordance with CPP | | |
| | | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| Alpine Energy | 267,127 | 9,322 | 1,761 | 0 | 0 | 0 | 11,082 |
| Aurora Energy | 645,301 | 23,643 | 2,136 | 0 | 0 | 0 | 25,779 |
| Buller Electricity | 33,068 | 1,816 | 0 | 0 | 0 | 0 | 1,816 |
| Centralines | 67,163 | 2,236 | 0 | 0 | 0 | 0 | 2,236 |
| Counties Energy | 374,478 | 10,691 | 2,750 | 0 | 0 | 0 | 13,441 |
| EA Networks | 321,934 | 10,242 | 1,349 | 0 | 0 | 0 | 11,591 |
| Electra | 226,821 | 10,351 | 0 | 0 | 0 | 0 | 10,351 |
| Electricity Invercargill | 99,905 | 3,729 | 0 | 0 | 0 | 0 | 3,729 |
| Firstlight Network | 188,035 | 7,106 | 0 | 0 | 0 | 0 | 7,106 |
| Horizon Energy Distribution | 150,720 | 6,501 | 652 | 0 | 0 | 0 | 7,153 |
| MainPower New Zealand | 282,321 | 14,246 | 4,425 | 0 | 0 | 0 | 18,671 |
| Marlborough Lines | 248,723 | 11,449 | 0 | 0 | 0 | 0 | 11,449 |
| Nelson Electricity | 46,261 | 1,699 | 0 | 0 | 0 | 0 | 1,699 |
| Network Tasman | 191,545 | 6,854 | 335 | 0 | 0 | 0 | 7,189 |
| Network Waitaki | 110,927 | 4,057 | 532 | 0 | 0 | 0 | 4,589 |
| Northpower | 328,448 | 11,584 | 620 | 0 | 0 | 0 | 12,204 |
| Orion New Zealand | 1,307,972 | 44,711 | 5,716 | 0 | 0 | 0 | 50,427 |
| OtagoNet Joint Venture | 240,495 | 9,688 | 0 | 0 | 0 | 0 | 9,688 |
| Powerco | 2,285,796 | 72,277 | 31,286 | 0 | 0 | 0 | 103,563 |
| Scanpower | 49,990 | 1,375 | 883 | 0 | 0 | 0 | 2,258 |
| The Lines Company | 250,864 | 9,779 | 1,375 | 0 | 0 | 0 | 11,155 |
| The Power Company | 457,373 | 17,599 | 0 | 0 | 0 | 0 | 17,599 |
| Top Energy | 320,021 | 11,964 | 0 | 0 | 0 | 0 | 11,964 |
| Unison Networks | 740,115 | 33,162 | 0 | 0 | 0 | 0 | 33,162 |
| Vector | 3,641,987 | 93,337 | 52,519 | 0 | 0 | 0 | 145,856 |
| Waipa Networks | 145,410 | 4,639 | 1,512 | 0 | 0 | 0 | 6,151 |
| WEL Networks | 644,346 | 19,194 | 5,357 | 0 | 0 | 0 | 24,551 |
| Wellington Electricity Lines | 743,607 | 25,793 | 4,512 | 0 | 0 | 0 | 30,305 |
| Westpower | 110,847 | 5,110 | 721 | 0 | 0 | 0 | 5,831 |
| Average | 500,745 | 16,695 | 4,084 | 0 | 0 | 0 | 20,779 |
| Median | 250,864 | 10,242 | 652 | 0 | 0 | 0 | 11,155 |
| Minimum | 33,068 | 1,375 | 0 | 0 | 0 | 0 | 1,699 |
| Maximum | 3,641,987 | 93,337 | 52,519 | 0 | 0 | 0 | 145,856 |
| Industry Total | 14,521,603 | 484,154 | 118,441 | 0 | 0 | 0 | 602,594 |

Regulatory asset base – revaluations, commissioned assets, disposals, adjustments and closing

Definitions

| | |
|---|---|
| Revaluations = | CPI x Opening Regulatory Asset Base (excluding assets that are fully depreciated, disposed of or lost in the disclosure year) |
| Assets Commissioned = | The value of assets commissioned by the EDB during the disclosure year for use in providing electricity distribution services |
| Assets Commissioned (Assets Acquired from a Regulated Supplier) = | The value of assets commissioned that are acquired from a regulated supplier |
| Assets Commissioned (Assets Acquired from a Related Party) = | The value of assets commissioned that are acquired from a related party |
| Assets Commissioned (Other) = | Assets commissioned other than Assets Acquired from a Regulated Supplier and Assets Acquired from a Related Party |
| Asset Disposals (To a Regulated Supplier) = | Assets disposed of to a regulated supplier |
| Asset Disposals (To a Related Party) = | Assets disposed of to a related party |
| Asset Disposals (Other) = | Asset disposals other than Asset Disposals to a Regulated Supplier and Asset Disposals to a Related Party |
| Lost and Found Assets Adjustment = | The value of found assets less the value of lost assets |
| Adjustment Resulting from Asset Allocation = | Adjustment to Closing Regulatory Asset Base resulting from the reapplication of the cost allocation input methodologies |
| Closing Regulatory Asset Base = | The regulatory values of assets used to supply electricity lines services at disclosure year end |

Regulatory asset base – revaluations and commissioned assets

| | Revaluations | Assets Commissioned | | | | |
|------------------------------|--------------|------------------------------------|-------------------------------|---------|-----------|--|
| | | Acquired from a Regulated Supplier | Acquired from a Related Party | Other | Total | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | |
| Alpine Energy | 17,777 | 0 | 8,572 | 10,893 | 19,465 | |
| Aurora Energy | 42,563 | 0 | 32,787 | 44,086 | 76,873 | |
| Buller Electricity | 2,161 | 0 | 0 | 2,287 | 2,288 | |
| Centralines | 4,452 | 0 | 3,200 | 16,456 | 19,656 | |
| Counties Energy | 24,806 | 0 | 0 | 41,748 | 41,748 | |
| EA Networks | 21,377 | 0 | 4,566 | 7,483 | 12,049 | |
| Electra | 14,961 | 0 | 0 | 11,471 | 11,471 | |
| Electricity Invercargill | 6,645 | 0 | 4,522 | 0 | 4,522 | |
| Firstlight Network | 12,500 | 0 | 0 | 16,078 | 16,078 | |
| Horizon Energy Distribution | 9,975 | 0 | 8,083 | 140 | 8,223 | |
| MainPower New Zealand | 18,788 | 0 | 0 | 24,095 | 24,095 | |
| Marlborough Lines | 16,499 | 0 | 0 | 11,297 | 11,297 | |
| Nelson Electricity | 3,079 | 0 | 0 | 1,644 | 1,644 | |
| Network Tasman | 12,699 | 0 | 0 | 13,863 | 13,863 | |
| Network Waitaki | 7,366 | 0 | 488 | 6,831 | 7,319 | |
| Northpower | 21,787 | 0 | 13,372 | 2,295 | 15,667 | |
| Orion New Zealand | 86,682 | 0 | 45,349 | 60,871 | 106,220 | |
| OtagoNet Joint Venture | 15,995 | 0 | 16,920 | 0 | 16,920 | |
| Powerco | 151,386 | 0 | 535 | 255,212 | 255,747 | |
| Scanpower | 3,319 | 0 | 0 | 3,014 | 3,014 | |
| The Lines Company | 16,669 | 0 | 0 | 6,934 | 6,934 | |
| The Power Company | 30,336 | 0 | 22,097 | 0 | 22,097 | |
| Top Energy | 21,280 | 0 | 0 | 9,801 | 9,801 | |
| Unison Networks | 49,031 | 0 | 47,078 | 7,547 | 54,625 | |
| Vector | 241,014 | 0 | 2,259 | 167,028 | 169,287 | |
| Waipa Networks | 9,671 | 0 | 7,881 | 5,561 | 13,442 | |
| WEL Networks | 42,790 | 0 | 8,632 | 36,090 | 44,722 | |
| Wellington Electricity Lines | 49,410 | 0 | 0 | 41,143 | 41,143 | |
| Westpower | 7,377 | 0 | 3,609 | 395 | 4,004 | |
| Average | 33,186 | 0 | 7,929 | 27,733 | 35,663 | |
| Median | 16,669 | 0 | 2,259 | 9,801 | 15,667 | |
| Minimum | 2,161 | 0 | 0 | 0 | 1,644 | |
| Maximum | 241,014 | 0 | 47,078 | 255,212 | 255,747 | |
| Industry Total | 962,396 | 0 | 229,948 | 804,265 | 1,034,213 | |

Regulatory asset base – disposals, adjustments and closing

| | Asset Disposals | | | | Lost and Found Asset Adjustment | Adjustment Resulting from Asset Allocation | Closing Regulatory Asset Base |
|------------------------------|-------------------------|--------------------|--------|--------|---------------------------------|--|-------------------------------|
| | To a Regulated Supplier | To a Related Party | Other | Total | | | |
| | \$000 | \$000 | \$000 | \$000 | | | |
| Alpine Energy | 0 | 0 | 7 | 7 | 0 | 0 | 293,278 |
| Aurora Energy | 505 | 0 | 2,366 | 2,871 | 0 | 0 | 736,088 |
| Buller Electricity | 0 | 0 | 434 | 434 | 0 | -1 | 35,266 |
| Centralines | 0 | 0 | 138 | 138 | 0 | 0 | 88,898 |
| Counties Energy | 0 | 0 | 537 | 537 | 0 | 0 | 427,054 |
| EA Networks | 0 | 46 | 476 | 522 | 0 | 43 | 343,290 |
| Electra | 0 | 0 | 1,215 | 1,215 | 0 | 0 | 241,685 |
| Electricity Invercargill | 0 | 0 | 43 | 43 | 0 | 0 | 107,300 |
| Firstlight Network | 0 | 0 | 24 | 24 | -38 | 0 | 209,446 |
| Horizon Energy Distribution | 0 | 0 | 549 | 549 | 0 | 0 | 161,216 |
| MainPower New Zealand | 0 | 0 | 10 | 10 | 0 | -239 | 306,284 |
| Marlborough Lines | 0 | 0 | 839 | 839 | 0 | 0 | 264,231 |
| Nelson Electricity | 0 | 0 | 0 | 0 | 0 | 0 | 49,284 |
| Network Tasman | 0 | 0 | 1,120 | 1,120 | 0 | -9 | 209,789 |
| Network Waitaki | 0 | 0 | 0 | 0 | -5 | -26 | 120,992 |
| Northpower | 0 | 0 | 151 | 151 | 0 | -379 | 353,169 |
| Orion New Zealand | 0 | 0 | 368 | 368 | 0 | 0 | 1,450,079 |
| OtagoNet Joint Venture | 0 | 0 | 105 | 105 | 0 | 0 | 263,617 |
| Powerco | 0 | 0 | -745 | -745 | 0 | -574 | 2,589,537 |
| Scanpower | 0 | 0 | 71 | 71 | 0 | 0 | 53,996 |
| The Lines Company | 0 | 0 | 126 | 126 | 171 | -94 | 263,264 |
| The Power Company | 0 | 0 | 834 | 834 | 0 | 0 | 491,373 |
| Top Energy | 0 | 0 | 1 | 1 | 0 | -16 | 339,121 |
| Unison Networks | 0 | 0 | 2,068 | 2,068 | -251 | -2,483 | 805,807 |
| Vector | 0 | 0 | 15,317 | 15,317 | 0 | 719 | 3,891,833 |
| Waipa Networks | 0 | 0 | 130 | 130 | 0 | 0 | 162,242 |
| WEL Networks | 0 | 0 | 831 | 831 | 0 | 0 | 706,476 |
| Wellington Electricity Lines | 0 | 0 | 0 | 0 | 0 | -425 | 803,430 |
| Westpower | 0 | 0 | 56 | 56 | 0 | 0 | 116,341 |
| Average | 17 | 2 | 933 | 952 | -4 | -120 | 547,737 |
| Median | 0 | 0 | 138 | 138 | 0 | 0 | 264,231 |
| Minimum | 0 | 0 | -745 | -745 | -251 | -2,483 | 35,266 |
| Maximum | 505 | 46 | 15,317 | 15,317 | 171 | 719 | 3,891,833 |
| Industry Total | 505 | 46 | 27,068 | 27,619 | -122 | -3,485 | 15,884,387 |

Closing regulatory asset base by asset category

Definitions

| | |
|---|--|
| Network Assets = | Fixed assets used to provide electricity lines services |
| Subtransmission Lines = | Overhead power lines operated at a subtransmission voltage |
| Subtransmission Cables = | Underground power cables operated at a subtransmission voltage |
| Zone Substations = | Transformers, switchgear, protection and control and supervisory control and data acquisition (SCADA) equipment, low voltage and station direct current systems, other secondary systems, ripple injection plant and outdoor structure installed in an electrical power substation primarily used to convert any subtransmission voltage to any distribution voltage |
| Distribution and LV Lines = | Overhead power lines operated at a distribution voltage or low voltage |
| Distribution and LV Cables = | Underground power cables operated at a distribution voltage or low voltage |
| Distribution Substations and Transformers = | Substations, including all associated pole mountings, ground pads and covers, and kiosks and components used to install transformers; and transformers used to convert between distribution voltage and low voltage |
| Distribution Switchgear = | All switchgear operated at distribution voltage |
| Other Network Assets = | Network Assets that are not Subtransmission Lines, Subtransmission Cables, Zone Substations, Distribution and LV Lines, Distribution and LV Cables, Distribution Substations and Transformers or Distribution Switchgear, and includes central facilities for SCADA and telecommunications systems |
| Non-Network Assets = | Assets related to the provision of electricity lines services that are not Network Assets |
| Closing Regulatory Asset Base = | The regulatory values of assets used to supply electricity lines services at disclosure year end |

Closing regulatory asset base by asset category

| | Network Assets | | | | | |
|------------------------------|--------------------------------|---------------------------------|---------------------------|------------------------------------|-------------------------------------|--|
| | Subtransmission Lines \$000 | Subtransmission Cables \$000 | Zone Substations \$000 | Distribution and LV Lines \$000 | Distribution and LV Cables \$000 | |
| Alpine Energy | 13,186 | 5,720 | 63,493 | 67,289 | 67,599 | |
| Aurora Energy | 40,212 | 27,907 | 119,363 | 225,618 | 176,310 | |
| Buller Electricity | 3,567 | 0 | 7,025 | 8,821 | 2,873 | |
| Centralines | 1,805 | 597 | 6,017 | 33,114 | 10,181 | |
| Counties Energy | 19,519 | 225 | 74,836 | 151,052 | 55,791 | |
| EA Networks | 16,343 | 3,854 | 30,552 | 55,256 | 96,261 | |
| Electra | 10,948 | 13,238 | 33,289 | 61,913 | 41,897 | |
| Electricity Invercargill | 1,456 | 7,408 | 23,404 | 2,850 | 47,841 | |
| Firstlight Network | 22,040 | 1,597 | 31,387 | 77,410 | 30,507 | |
| Horizon Energy Distribution | 7,517 | 1,371 | 10,512 | 27,665 | 45,920 | |
| MainPower New Zealand | 20,705 | 702 | 38,655 | 77,821 | 63,552 | |
| Marlborough Lines | 27,767 | 15,701 | 49,487 | 57,092 | 47,970 | |
| Nelson Electricity | 0 | 5,528 | 10,496 | 846 | 17,832 | |
| Network Tasman | 8,997 | 12,040 | 31,388 | 30,976 | 67,097 | |
| Network Waitaki | 13,692 | 1,642 | 19,068 | 36,500 | 10,326 | |
| Northpower | 8,458 | 10,745 | 40,155 | 143,194 | 53,718 | |
| Orion New Zealand | 81,007 | 104,129 | 178,917 | 155,607 | 468,494 | |
| OtagoNet Joint Venture | 32,243 | 3,223 | 38,982 | 118,443 | 20,907 | |
| Powerco | 104,143 | 72,080 | 207,654 | 603,370 | 435,799 | |
| Scanpower | 0 | 0 | 0 | 26,356 | 5,416 | |
| The Lines Company | 21,115 | 867 | 39,280 | 102,812 | 25,164 | |
| The Power Company | 66,724 | 5,548 | 126,181 | 168,298 | 22,230 | |
| Top Energy | 68,468 | 10,269 | 44,977 | 91,521 | 42,241 | |
| Unison Networks | 25,590 | 25,940 | 99,944 | 182,272 | 180,790 | |
| Vector | 79,923 | 386,334 | 388,304 | 600,930 | 794,740 | |
| Waipa Networks | 21,043 | 0 | 0 | 32,609 | 26,507 | |
| WEL Networks | 23,696 | 52,553 | 85,253 | 143,432 | 226,974 | |
| Wellington Electricity Lines | 4,708 | 54,912 | 71,660 | 215,197 | 239,173 | |
| Westpower | 18,018 | 0 | 27,082 | 35,014 | 5,618 | |
| Average | 26,307 | 28,418 | 65,426 | 121,837 | 114,818 | |
| Median | 19,519 | 5,548 | 38,982 | 77,410 | 47,841 | |
| Minimum | 0 | 0 | 0 | 846 | 2,873 | |
| Maximum | 104,143 | 386,334 | 388,304 | 603,370 | 794,740 | |
| Industry Total | 762,890 | 824,131 | 1,897,361 | 3,533,277 | 3,329,730 | |

| | Network Assets | | | | Non-Network Assets | All Assets |
|-----------|---|-------------------------|----------------------|---------|--------------------|------------|
| | Distribution Substations and Transformers | Distribution Switchgear | Other Network Assets | Total | | |
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| 26,056 | 21,126 | 11,689 | 276,158 | 17,121 | 293,278 | |
| 78,226 | 40,056 | 22,142 | 729,834 | 6,254 | 736,088 | |
| 3,320 | 2,773 | 2,742 | 31,121 | 4,145 | 35,266 | |
| 11,423 | 7,857 | 536 | 71,530 | 17,368 | 88,898 | |
| 47,792 | 26,057 | 7,977 | 383,249 | 43,805 | 427,054 | |
| 75,162 | 39,276 | 2,740 | 319,444 | 23,846 | 343,290 | |
| 31,182 | 19,350 | 16,262 | 228,079 | 13,606 | 241,685 | |
| 11,697 | 9,065 | 3,579 | 107,300 | 0 | 107,300 | |
| 20,479 | 10,431 | 6,575 | 200,426 | 9,020 | 209,446 | |
| 32,791 | 23,817 | 9,323 | 158,917 | 2,299 | 161,216 | |
| 43,884 | 14,075 | 18,633 | 278,028 | 28,257 | 306,284 | |
| 21,593 | 17,632 | 7,521 | 244,764 | 19,467 | 264,231 | |
| 5,941 | 4,011 | 4,260 | 48,914 | 370 | 49,284 | |
| 31,170 | 11,329 | 13,349 | 206,346 | 3,443 | 209,789 | |
| 19,150 | 13,626 | 2,746 | 116,750 | 4,242 | 120,992 | |
| 57,361 | 10,272 | 7,655 | 331,558 | 21,611 | 353,169 | |
| 166,524 | 191,658 | 42,494 | 1,388,830 | 61,249 | 1,450,079 | |
| 26,702 | 16,705 | 5,165 | 262,370 | 1,247 | 263,617 | |
| 320,222 | 202,309 | 532,506 | 2,478,083 | 111,454 | 2,589,537 | |
| 9,205 | 4,590 | 4,754 | 50,319 | 3,676 | 53,996 | |
| 37,624 | 24,154 | 9,947 | 260,964 | 2,300 | 263,264 | |
| 62,461 | 31,044 | 8,887 | 491,373 | 0 | 491,373 | |
| 37,498 | 35,254 | 5,310 | 335,537 | 3,584 | 339,121 | |
| 124,465 | 80,645 | 27,695 | 747,342 | 58,465 | 805,807 | |
| 335,921 | 359,314 | 896,540 | 3,842,006 | 49,828 | 3,891,833 | |
| 36,882 | 21,620 | 7,686 | 146,347 | 15,895 | 162,242 | |
| 75,458 | 49,299 | 14,480 | 671,145 | 35,331 | 706,476 | |
| 150,090 | 34,841 | 23,148 | 793,729 | 9,701 | 803,430 | |
| 15,344 | 6,932 | 6,663 | 114,672 | 1,669 | 116,341 | |
| 66,056 | 45,832 | 59,414 | 528,108 | 19,629 | 547,738 | |
| 36,882 | 21,126 | 7,977 | 262,370 | 9,701 | 264,231 | |
| 3,320 | 2,773 | 536 | 31,121 | 0 | 35,266 | |
| 335,921 | 359,314 | 896,540 | 3,842,006 | 111,454 | 3,891,833 | |
| 1,915,622 | 1,329,118 | 1,723,005 | 15,315,135 | 569,253 | 15,884,388 | |

Weighted average remaining life by asset category

| | Network Assets | | | | | |
|------------------------------|-----------------------|------------------------|------------------|---------------------------|----------------------------|--|
| | Subtransmission Lines | Subtransmission Cables | Zone Substations | Distribution and LV Lines | Distribution and LV Cables | |
| | years | years | years | years | years | |
| Alpine Energy | 31.7 | 37.7 | 33.0 | 34.9 | 39.8 | |
| Aurora Energy | 29.0 | 34.1 | 26.3 | 32.4 | 30.3 | |
| Buller Electricity | 30.0 | - | 26.2 | 32.0 | 37.8 | |
| Centralines | 49.8 | 42.3 | 36.2 | 46.5 | 43.8 | |
| Counties Energy | 42.8 | 23.3 | 38.5 | 44.5 | 36.1 | |
| EA Networks | 32.6 | 47.8 | 33.4 | 29.7 | 44.0 | |
| Electra | 31.6 | 41.7 | 33.2 | 36.3 | 37.5 | |
| Electricity Invercargill | 31.7 | 39.1 | 34.9 | 35.9 | 36.5 | |
| Firstlight Network | 39.6 | 38.4 | 33.1 | 41.1 | 39.9 | |
| Horizon Energy Distribution | 31.5 | 41.7 | 39.2 | 27.4 | 38.3 | |
| MainPower New Zealand | 19.1 | 19.1 | 18.8 | 15.8 | 24.9 | |
| Marlborough Lines | 44.9 | 44.9 | 33.4 | 41.0 | 33.5 | |
| Nelson Electricity | - | 30.2 | 24.6 | 24.5 | 19.5 | |
| Network Tasman | 41.6 | 52.0 | 36.8 | 63.8 | 49.9 | |
| Network Waitaki | 43.1 | 51.1 | 36.7 | 36.8 | 39.8 | |
| Northpower | 33.2 | 38.2 | 32.0 | 41.7 | 32.1 | |
| Orion New Zealand | 34.9 | 39.8 | 31.7 | 32.2 | 38.3 | |
| OtagoNet Joint Venture | 35.6 | 44.8 | 39.0 | 31.5 | 44.7 | |
| Powerco | 41.8 | 43.5 | 30.0 | 40.3 | 33.1 | |
| Scanpower | - | - | - | 43.9 | 30.1 | |
| The Lines Company | 31.7 | 41.5 | 28.8 | 36.5 | 34.9 | |
| The Power Company | 35.8 | 37.9 | 32.3 | 24.6 | 42.1 | |
| Top Energy | 43.4 | 51.8 | 24.8 | 29.2 | 24.5 | |
| Unison Networks | 36.9 | 41.4 | 34.5 | 40.8 | 40.2 | |
| Vector | 40.0 | 46.0 | 32.0 | 47.0 | 34.0 | |
| Waipa Networks | 48.2 | - | - | 25.0 | 26.4 | |
| WEL Networks | 39.6 | 40.0 | 32.1 | 42.7 | 42.7 | |
| Wellington Electricity Lines | 23.0 | 25.7 | 24.0 | 38.5 | 23.6 | |
| Westpower | 34.4 | - | 21.9 | 30.1 | 22.8 | |
| Average | 33.7 | 34.3 | 29.2 | 36.1 | 35.2 | |
| Median | 34.9 | 39.8 | 32.1 | 36.3 | 36.5 | |
| Minimum | 19.1 | 19.1 | 18.8 | 15.8 | 19.5 | |
| Maximum | 49.8 | 52.0 | 39.2 | 63.8 | 49.9 | |

| | Network Assets | | | | Non-Network Assets | All Assets ¹ |
|--|---|-------------------------------|----------------------------|-------------|--------------------|-------------------------|
| | Distribution Substations and Transformers years | Distribution Switchgear years | Other Network Assets years | Total years | years | years |
| | 25.9 | 34.4 | 32.6 | 34.5 | 23.6 | 33.8 |
| | 26.8 | 20.1 | 9.4 | 28.7 | 2.7 | 28.5 |
| | 25.8 | 23.4 | 24.9 | 28.9 | 17.1 | 27.5 |
| | 33.6 | 31.8 | 10.0 | 41.2 | 15.9 | 39.8 |
| | 31.0 | 29.1 | 8.0 | 38.4 | 13.0 | 36.0 |
| | 35.7 | 25.7 | 12.6 | 35.3 | 19.9 | 34.2 |
| | 33.4 | 30.4 | 24.9 | 34.5 | 8.5 | 32.9 |
| | 27.5 | 26.1 | 18.4 | 33.9 | - | 33.9 |
| | 31.0 | 26.3 | 15.0 | 36.8 | 14.5 | 35.7 |
| | 34.9 | 31.6 | 15.9 | 33.1 | 6.7 | 32.6 |
| | 18.3 | 10.7 | 15.7 | 18.7 | 6.4 | 17.4 |
| | 25.5 | 26.4 | 15.6 | 35.3 | 18.3 | 34.0 |
| | 26.1 | 14.2 | 18.4 | 22.2 | 1.6 | 22.1 |
| | 51.3 | 46.3 | 18.3 | 47.6 | 21.9 | 47.1 |
| | 33.2 | 29.0 | 22.9 | 36.3 | 42.7 | 36.5 |
| | 35.2 | 27.0 | 16.1 | 36.4 | 28.9 | 36.0 |
| | 34.3 | 32.0 | 25.3 | 34.9 | 26.0 | 34.5 |
| | 29.7 | 27.2 | 30.5 | 33.8 | 19.2 | 33.7 |
| | 33.2 | 29.3 | 39.5 | 36.4 | 17.6 | 35.5 |
| | 35.3 | 29.1 | 28.8 | 38.0 | 17.6 | 36.5 |
| | 27.9 | 29.8 | 15.5 | 32.1 | 8.7 | 31.8 |
| | 32.8 | 27.2 | 16.0 | 30.1 | - | 30.1 |
| | 22.4 | 29.1 | 11.3 | 30.5 | 2.5 | 30.2 |
| | 30.5 | 30.6 | 19.0 | 36.2 | 12.3 | 34.3 |
| | 34.0 | 29.0 | 40.0 | 37.8 | 6.0 | 37.3 |
| | 26.4 | 21.7 | 20.6 | 28.4 | 8.1 | 26.8 |
| | 35.3 | 33.0 | 13.9 | 38.8 | 13.1 | 37.4 |
| | 28.2 | 17.4 | 41.1 | 28.8 | 3.1 | 28.4 |
| | 28.0 | 24.2 | 11.0 | 26.7 | 10.0 | 26.5 |
| | 30.8 | 27.3 | 20.4 | 33.6 | 13.3 | 32.8 |
| | 31.0 | 29.0 | 18.3 | 34.5 | 13.0 | 33.9 |
| | 18.3 | 10.7 | 8.0 | 18.7 | 1.6 | 17.4 |
| | 51.3 | 46.3 | 41.1 | 47.6 | 42.7 | 47.1 |

¹ Weighted average asset lives for Total Network Assets and All Assets are weighted by Opening Regulatory Asset Base values for each asset category. This is consistent with the IDD.

Asset allocations

Definitions

Directly Attributable =

Regulatory service asset values wholly and solely related to an asset used in relation to the supply of electricity lines services

Not Directly Attributable =

Regulatory service asset values that are not Directly Attributable

| | Directly Attributable | | | Not Directly Attributable | | | Total \$000 |
|------------------------------|-----------------------|----------------------|----------------|---------------------------|----------------------|--|----------------|
| | Network \$000 | Non-Network \$000 | Total \$000 | Network \$000 | Non-Network \$000 | | |
| Alpine Energy | 276,158 | 1,101 | 277,258 | 0 | 16,020 | | 16,020 |
| Aurora Energy | 727,117 | 6,255 | 733,372 | 2,716 | 0 | | 2,716 |
| Buller Electricity | 31,121 | 4,145 | 35,266 | 0 | 0 | | 0 |
| Centralines | 71,530 | 17,368 | 88,898 | 0 | 0 | | 0 |
| Counties Energy | 383,249 | 31,949 | 415,198 | 0 | 11,856 | | 11,856 |
| EA Networks | 319,442 | 16,690 | 336,132 | 2 | 7,156 | | 7,158 |
| Electra | 228,079 | 13,606 | 241,685 | 0 | 0 | | 0 |
| Electricity Invercargill | 107,300 | 0 | 107,300 | 0 | 0 | | 0 |
| Firstlight Network | 200,426 | 9,020 | 209,446 | 0 | 0 | | 0 |
| Horizon Energy Distribution | 158,917 | 0 | 158,917 | 0 | 2,299 | | 2,299 |
| MainPower New Zealand | 278,027 | 0 | 278,027 | 0 | 28,257 | | 28,257 |
| Marlborough Lines | 244,764 | 19,467 | 264,231 | 0 | 0 | | 0 |
| Nelson Electricity | 48,914 | 370 | 49,284 | 0 | 0 | | 0 |
| Network Tasman | 204,391 | 1,057 | 205,448 | 1,955 | 2,386 | | 4,341 |
| Network Waitaki | 116,750 | 1,483 | 118,233 | 0 | 2,759 | | 2,759 |
| Northpower | 322,033 | 18,066 | 340,099 | 9,525 | 3,545 | | 13,070 |
| Orion New Zealand | 1,388,830 | 50,986 | 1,439,816 | 0 | 10,263 | | 10,263 |
| OtagoNet Joint Venture | 262,370 | 1,247 | 263,617 | 0 | 0 | | 0 |
| Powerco | 2,478,083 | 35,386 | 2,513,469 | 0 | 76,067 | | 76,067 |
| Scanpower | 50,321 | 3,675 | 53,996 | 0 | 0 | | 0 |
| The Lines Company | 260,964 | 887 | 261,851 | 0 | 1,413 | | 1,413 |
| The Power Company | 491,373 | 0 | 491,373 | 0 | 0 | | 0 |
| Top Energy | 335,537 | 0 | 335,537 | 0 | 3,584 | | 3,584 |
| Unison Networks | 745,106 | 23,058 | 768,164 | 2,236 | 35,407 | | 37,643 |
| Vector | 3,750,722 | 24,152 | 3,774,874 | 91,284 | 25,676 | | 116,959 |
| Waipa Networks | 146,347 | 14,803 | 161,150 | 0 | 1,092 | | 1,092 |
| WEL Networks | 668,176 | 26,196 | 694,372 | 2,969 | 9,135 | | 12,104 |
| Wellington Electricity Lines | 628,644 | 9,701 | 638,345 | 165,085 | 0 | | 165,085 |
| Westpower | 114,672 | 1,669 | 116,341 | 0 | 0 | | 0 |
| Average | 518,599 | 11,460 | 530,059 | 9,509 | 8,169 | | 17,679 |
| Median | 262,370 | 6,255 | 264,231 | 0 | 1,413 | | 2,716 |
| Minimum | 31,121 | 0 | 35,266 | 0 | 0 | | 0 |
| Maximum | 3,750,722 | 50,986 | 3,774,874 | 165,085 | 76,067 | | 165,085 |
| Industry Total | 15,039,363 | 332,337 | 15,371,700 | 275,772 | 236,915 | | 512,687 |

10. Regulatory tax

Definitions

Regulatory Profit / (Loss) Before Tax =

Total Regulatory Income – Operational Expenditure – Pass-Through and Recoverable Costs Excluding Financial Incentives and Wash-Ups – Total Depreciation + Total Revaluations

Discretionary Discounts and Customer Rebates =

Payments made or credit amounts given by an EDB in respect of the supply of electricity distribution services owing to direct or indirect ownership interest in the EDB, excluding discounts posted as part of prices

Amortisation of Initial Differences in Asset Values =

Amortisation of initial difference in regulatory asset base and regulatory tax asset values over weighted average remaining useful life of assets

Amortisation of Revaluations =

Total Depreciation - Adjusted Depreciation (calculated as RAB depreciation calculated by rolling the RAB forward from 1 April 2009 with no revaluations)

Revaluation Timing Difference =

Revaluation income included in Regulatory Profit / (Loss) Before Tax but not taxable

Other Timing Differences =

Income not included in Regulatory Profit / (Loss) Before Tax but taxable + Expenditure or loss included in Regulatory Profit / (Loss) Before Tax but not deductible – (Income included in Regulatory Profit / (Loss) Before Tax but not taxable – Revaluation Timing Difference) – Expenditure or loss not included in Regulatory Profit / (Loss) Before Tax but deductible

Notional Deductible Interest =

(Regulatory Investment Value × Cost of Debt × Leverage) + Term Credit Spread Differential Allowance / √(1+Cost of Debt)

Utilised Tax Losses =

The lesser of opening tax losses and regulatory taxable income

Regulatory Net Taxable Income =

Regulatory Profit / (Loss) Before Tax + Revaluation Timing Difference + Other Timing Differences + Amortisation of Initial Differences in Asset Values + Amortisation of Revaluations – Discretionary Discounts and Consumer Rebates – Notional Deductible Interest – Utilised Tax Losses

Regulatory Tax Allowance =

Regulatory Net Taxable Income × Corporate Tax Rate

Regulatory Investment Value =

Total Opening Regulatory Asset Base + opening deferred tax

Components of the regulatory tax allowance

| | Regulatory Profit / (Loss) Before Tax \$000 | Discretionary Discounts and Consumer Rebates \$000 | Amortisation of Initial Differences in Asset Values \$000 | Amortisation of Revaluations \$000 | Revaluations Timing Differences \$000 |
|------------------------------|--|---|--|---|--|
| Alpine Energy | 23,103 | 0 | 2,718 | 1,800 | -17,777 |
| Aurora Energy | 59,956 | 0 | 4,929 | 4,371 | -42,563 |
| Buller Electricity | 3,645 | 0 | 569 | 305 | -2,161 |
| Centralines | 7,497 | 0 | 1,255 | 465 | -4,452 |
| Counties Energy | 35,494 | 0 | 2,663 | 1,949 | -24,806 |
| EA Networks | 27,846 | 2,999 | 2,076 | 1,997 | -21,377 |
| Electra | 21,230 | 0 | 2,602 | 1,713 | -14,961 |
| Electricity Invercargill | 9,785 | 0 | 1,249 | 640 | -6,645 |
| Firstlight Network | 16,319 | 0 | 1,901 | 904 | -12,500 |
| Horizon Energy Distribution | 16,041 | 0 | 4,219 | 1,686 | -9,975 |
| MainPower New Zealand | 22,165 | 0 | 1,048 | 4,642 | -18,788 |
| Marlborough Lines | 17,184 | 0 | 3,387 | 2,955 | -16,499 |
| Nelson Electricity | 4,783 | 0 | 693 | 414 | -3,079 |
| Network Tasman | 17,523 | 0 | 3,238 | 982 | -12,699 |
| Network Waitaki | 9,110 | 0 | 1,132 | 532 | -7,366 |
| Northpower | 20,714 | 0 | 4,532 | 2,302 | -21,787 |
| Orion New Zealand | 129,670 | 0 | 15,209 | 8,721 | -86,682 |
| OtagoNet Joint Venture | 20,185 | 0 | 1,330 | 1,590 | -15,995 |
| Powerco | 219,392 | 0 | 9,489 | 14,740 | -151,386 |
| Scanpower | 4,892 | 0 | 546 | 350 | -3,319 |
| The Lines Company | 25,044 | 0 | 4,086 | 1,966 | -16,669 |
| The Power Company | 41,733 | 0 | 6,934 | 2,992 | -30,336 |
| Top Energy | 23,852 | 0 | 3,399 | 2,493 | -21,280 |
| Unison Networks | 74,554 | 0 | 5,670 | 4,947 | -49,031 |
| Vector | 343,349 | 0 | 31,571 | 24,603 | -241,014 |
| Waipa Networks | 11,694 | -32 | 1,601 | 2,107 | -9,671 |
| WEL Networks | 54,922 | 0 | 7,095 | 4,100 | -42,790 |
| Wellington Electricity Lines | 79,539 | 0 | 7,151 | 4,018 | -49,410 |
| Westpower | 8,527 | 4,978 | 1,556 | 1,195 | -7,377 |
| Average | 46,543 | 274 | 4,615 | 3,499 | -33,186 |
| Median | 21,230 | 0 | 2,718 | 1,966 | -16,669 |
| Minimum | 3,645 | -32 | 546 | 305 | -241,014 |
| Maximum | 343,349 | 4,978 | 31,571 | 24,603 | -2,161 |
| Industry Total | 1,349,747 | 7,945 | 133,846 | 101,477 | -962,396 |

| | Other Timing Differences | Notional Deductible Interest | Utilised Tax Losses | Regulatory Net Taxable Income | Regulatory Tax Allowance | Opening Regulatory Investment Value |
|--|---------------------------------|-------------------------------------|----------------------------|--------------------------------------|---------------------------------|--|
| | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| | 33 | 4,489 | 0 | 5,387 | 1,508 | 249,302 |
| | -1,096 | 11,074 | 0 | 14,523 | 4,066 | 615,014 |
| | -69 | 567 | 0 | 1,721 | 482 | 31,483 |
| | 0 | 1,121 | 0 | 3,643 | 1,020 | 62,276 |
| | 154 | 6,354 | 0 | 9,101 | 2,548 | 352,875 |
| | 6 | 5,501 | 0 | 2,048 | 573 | 305,520 |
| | 729 | 4,003 | 0 | 7,312 | 2,047 | 215,889 |
| | -15 | 1,705 | 0 | 3,310 | 927 | 94,688 |
| | 4 | 1,865 | 0 | 4,761 | 1,333 | 177,056 |
| | 52 | 2,714 | 0 | 9,309 | 0 | 150,720 |
| | 0 | 4,950 | 0 | 4,116 | 1,153 | 274,922 |
| | 23 | 4,394 | 0 | 2,656 | 744 | 244,052 |
| | 0 | 793 | 0 | 2,019 | 565 | 44,032 |
| | 81 | 3,381 | 0 | 5,743 | 1,608 | 187,789 |
| | 28 | 1,900 | 0 | 1,535 | 430 | 105,534 |
| | 22 | 5,658 | 0 | 125 | 35 | 314,238 |
| | 900 | 23,255 | 0 | 44,564 | 12,478 | 1,244,715 |
| | -48 | 3,940 | 0 | 3,122 | 874 | 218,831 |
| | 3,009 | 42,020 | 0 | 53,224 | 14,903 | 2,197,284 |
| | 0 | 860 | 0 | 1,608 | 450 | 47,767 |
| | 0 | 4,146 | 0 | 10,281 | 2,879 | 230,268 |
| | -93 | 8,203 | 0 | 13,027 | 3,648 | 432,130 |
| | 6 | 5,452 | 0 | 3,018 | 845 | 302,766 |
| | 65 | 13,032 | 0 | 23,172 | 6,488 | 698,403 |
| | 3,842 | 66,315 | 0 | 96,036 | 26,890 | 3,510,608 |
| | 2,882 | 2,494 | 0 | 6,152 | 1,722 | 138,502 |
| | 7 | 10,847 | 0 | 12,487 | 3,496 | 602,426 |
| | 42 | 12,907 | 0 | 28,433 | 7,961 | 697,429 |
| | -15 | 2,063 | 0 | 0 | 0 | 114,559 |
| | 364 | 8,828 | 0 | 12,842 | 3,506 | 477,968 |
| | 7 | 4,394 | 0 | 5,387 | 1,333 | 244,052 |
| | -1,096 | 567 | 0 | 0 | 0 | 31,483 |
| | 3,842 | 66,315 | 0 | 96,036 | 26,890 | 3,510,608 |
| | 10,549 | 256,004 | 0 | 372,431 | 101,674 | 13,861,078 |

11. Related party transactions

Definitions

Total Regulatory Income =

Line Charge Revenue + Gains/(Losses) on Asset Disposals + Other Regulated Income

Operational Expenditure =

Operating costs that are allocated to electricity distribution services; excluding costs treated as an asset under GAAP, depreciation, tax, subvention payments, revaluations, interest expenses, and Pass-Through and Recoverable Costs

Capital Expenditure =

Costs incurred in the acquisition or development of an asset that is, or is intended to be, included in the value of assets commissioned in the regulatory asset base

Market Value of Asset Disposals =

The market value of disposed assets sold or transferred to a related party

Other Related Party Transactions =

The value of related party transactions that are not disclosed as Total Regulatory Income, Operational Expenditure, Capital Expenditure or Market Value of Asset Disposals



Related party transactions

| | Total Regulatory Income \$000 | Operational Expenditure \$000 | Capital Expenditure \$000 | Market Value of Asset Disposals \$000 | Other Related Party Transactions \$000 |
|------------------------------|----------------------------------|----------------------------------|------------------------------|--|---|
| Alpine Energy | 0 | 5,138 | 12,608 | 0 | 140 |
| Aurora Energy | 0 | 17,854 | 30,205 | 0 | 911 |
| Buller Electricity | 1,680 | 787 | 0 | 0 | 0 |
| Centralines | 0 | 1,588 | 3,200 | 0 | 0 |
| Counties Energy | 0 | 0 | 0 | 0 | 0 |
| EA Networks | 183 | 2,629 | 4,566 | 40 | 867 |
| Electra | 0 | 535 | 0 | 0 | 0 |
| Electricity Invercargill | 0 | 4,257 | 5,294 | 0 | 0 |
| Firstlight Network | 734 | 3,157 | 0 | 0 | 152 |
| Horizon Energy Distribution | 0 | 3,581 | 8,234 | 0 | 0 |
| MainPower New Zealand | 0 | 0 | 0 | 0 | 0 |
| Marlborough Lines | 0 | 15 | 39 | 0 | 0 |
| Nelson Electricity | 0 | 211 | 0 | 0 | 0 |
| Network Tasman | 80 | 0 | 0 | 0 | 0 |
| Network Waitaki | 0 | 20 | 488 | 0 | 0 |
| Northpower | 0 | 18,824 | 16,356 | 0 | 0 |
| Orion New Zealand | 2,810 | 24,050 | 44,572 | 0 | 5,140 |
| OtagoNet Joint Venture | 0 | 8,947 | 20,151 | 0 | 0 |
| Powerco | 5 | 0 | 535 | 0 | 0 |
| Scanpower | 0 | 744 | 1,127 | 0 | 0 |
| The Lines Company | 0 | 900 | 0 | 0 | 0 |
| The Power Company | 38 | 16,138 | 32,239 | 0 | 0 |
| Top Energy | 0 | 1,322 | 0 | 0 | 0 |
| Unison Networks | 0 | 23,999 | 47,078 | 0 | 0 |
| Vector | 0 | 11,321 | 2,267 | 0 | 0 |
| Waipa Networks | 0 | 5,860 | 7,881 | 0 | 0 |
| WEL Networks | 2,206 | 7,540 | 8,632 | 0 | 0 |
| Wellington Electricity Lines | 0 | 12,158 | 3,706 | 0 | 0 |
| Westpower | 0 | 6,392 | 3,650 | 0 | 543 |
| Average | 267 | 6,137 | 8,718 | 1 | 267 |
| Median | 0 | 3,157 | 3,200 | 0 | 0 |
| Minimum | 0 | 0 | 0 | 0 | 0 |
| Maximum | 2,810 | 24,050 | 47,078 | 40 | 5,140 |
| Industry Total | 7,736 | 177,967 | 252,829 | 40 | 7,754 |

12. Network assets

Asset quantities by asset category

| | Subtransmission | | | Distribution | | | |
|------------------------------|-----------------|--------------|-------------|--------------|--------------|-------------|--|
| | Lines km | Cables km | Total km | Lines km | Cables km | Total km | |
| Alpine Energy | 248 | 32 | 280 | 2,895 | 462 | 3,357 | |
| Aurora Energy | 522 | 89 | 611 | 2,285 | 1,195 | 3,480 | |
| Buller Electricity | 106 | 1 | 107 | 368 | 22 | 391 | |
| Centralines | 94 | 2 | 96 | 1,407 | 43 | 1,451 | |
| Counties Energy | 120 | 1 | 121 | 1,485 | 321 | 1,806 | |
| EA Networks | 391 | 9 | 400 | 1,938 | 342 | 2,280 | |
| Electra | 186 | 31 | 217 | 848 | 263 | 1,111 | |
| Electricity Invercargill | 1 | 27 | 28 | 22 | 160 | 182 | |
| Firstlight Network | 643 | 1 | 644 | 2,387 | 142 | 2,529 | |
| Horizon Energy Distribution | 249 | 4 | 253 | 1,498 | 228 | 1,726 | |
| MainPower New Zealand | 386 | 4 | 390 | 3,433 | 373 | 3,806 | |
| Marlborough Lines | 277 | 31 | 308 | 2,134 | 204 | 2,337 | |
| Nelson Electricity | 0 | 18 | 18 | 6 | 76 | 83 | |
| Network Tasman | 281 | 41 | 322 | 1,887 | 308 | 2,195 | |
| Network Waitaki | 232 | 4 | 236 | 1,256 | 86 | 1,343 | |
| Northpower | 324 | 25 | 349 | 3,507 | 312 | 3,820 | |
| Orion New Zealand | 500 | 138 | 638 | 3,134 | 2,856 | 5,990 | |
| OtagoNet Joint Venture | 698 | 18 | 716 | 3,240 | 91 | 3,331 | |
| Powerco | 1,501 | 308 | 1,809 | 14,727 | 2,292 | 17,020 | |
| Scanpower | 0 | 0 | 0 | 841 | 19 | 860 | |
| The Lines Company | 437 | 15 | 452 | 3,093 | 202 | 3,295 | |
| The Power Company | 897 | 14 | 911 | 6,732 | 158 | 6,890 | |
| Top Energy | 387 | 23 | 410 | 2,640 | 230 | 2,870 | |
| Unison Networks | 427 | 72 | 499 | 3,888 | 881 | 4,769 | |
| Vector | 389 | 607 | 996 | 3,717 | 3,920 | 7,637 | |
| Waipa Networks | 36 | 0 | 36 | 1,233 | 171 | 1,403 | |
| WEL Networks | 178 | 268 | 446 | 1,926 | 757 | 2,683 | |
| Wellington Electricity Lines | 57 | 138 | 195 | 589 | 1,211 | 1,799 | |
| Westpower | 322 | 0 | 323 | 1,424 | 70 | 1,494 | |
| Average | 341 | 66 | 407 | 2,570 | 600 | 3,170 | |
| Median | 281 | 18 | 323 | 1,938 | 230 | 2,337 | |
| Minimum | 0 | 0 | 0 | 6 | 19 | 83 | |
| Maximum | 1,501 | 607 | 1,809 | 14,727 | 3,920 | 17,020 | |
| Industry Total | 9,889 | 1,923 | 11,812 | 74,541 | 17,397 | 91,938 | |

| | Low Voltage | | | Street Lighting km | Poles No. |
|--------|-------------|--------------|-------------|-----------------------|--------------|
| | Lines km | Cables km | Total km | | |
| 350 | 374 | 724 | 0 | 44,733 | |
| 1,028 | 1,136 | 2,163 | 1,071 | 53,655 | |
| 111 | 41 | 152 | 0 | 6,908 | |
| 202 | 116 | 317 | 73 | 19,973 | |
| 690 | 898 | 1,588 | 53 | 27,968 | |
| 58 | 434 | 492 | 341 | 27,603 | |
| 523 | 528 | 1,051 | 64 | 21,609 | |
| 30 | 425 | 454 | 170 | 940 | |
| 505 | 277 | 782 | 8 | 35,138 | |
| 258 | 387 | 645 | 245 | 20,418 | |
| 242 | 762 | 1,004 | 572 | 56,444 | |
| 409 | 390 | 799 | 71 | 30,646 | |
| 21 | 175 | 196 | 68 | 836 | |
| 486 | 712 | 1,198 | 0 | 28,450 | |
| 222 | 107 | 329 | 111 | 21,608 | |
| 1,185 | 837 | 2,022 | 418 | 54,944 | |
| 1,733 | 3,546 | 5,279 | 3,872 | 87,382 | |
| 465 | 110 | 574 | 118 | 50,462 | |
| 5,473 | 4,785 | 10,258 | 3,093 | 264,924 | |
| 111 | 81 | 192 | 0 | 11,265 | |
| 488 | 192 | 679 | 79 | 34,963 | |
| 849 | 232 | 1,082 | 363 | 110,098 | |
| 218 | 692 | 910 | 321 | 37,095 | |
| 1,174 | 2,901 | 4,075 | 1,882 | 66,312 | |
| 4,121 | 6,714 | 10,835 | 503 | 125,708 | |
| 507 | 358 | 865 | 92 | 22,292 | |
| 954 | 1,534 | 2,489 | 1,317 | 39,196 | |
| 1,072 | 1,770 | 2,842 | 1,959 | 39,968 | |
| 170 | 207 | 377 | 0 | 20,460 | |
| 816 | 1,059 | 1,875 | 582 | 46,965 | |
| 486 | 425 | 865 | 118 | 34,963 | |
| 21 | 41 | 152 | 0 | 836 | |
| 5,473 | 6,714 | 10,835 | 3,872 | 264,924 | |
| 23,652 | 30,719 | 54,371 | 16,866 | 1,361,998 | |

Asset quantities by asset category continued

| | Zone Substation | | | Distribution | | | |
|------------------------------|------------------|-------------------|---------------------|--------------------|---------------------|-------------------|--|
| | Buildings No. | Switchgear No. | Transformers No. | Substations No. | Transformers No. | Switchgear No. | |
| Alpine Energy | 25 | 330 | 27 | 0 | 6,223 | 7,693 | |
| Aurora Energy | 36 | 592 | 68 | 345 | 7,335 | 8,727 | |
| Buller Electricity | 4 | 76 | 12 | 19 | 806 | 1,055 | |
| Centralines | 3 | 64 | 7 | 13 | 2,536 | 3,676 | |
| Counties Energy | 10 | 162 | 18 | 1,029 | 4,239 | 5,602 | |
| EA Networks | 20 | 447 | 31 | 577 | 6,634 | 8,267 | |
| Electra | 10 | 207 | 19 | 0 | 2,636 | 3,247 | |
| Electricity Invercargill | 5 | 72 | 7 | 40 | 447 | 591 | |
| Firstlight Network | 30 | 167 | 36 | 0 | 3,630 | 4,838 | |
| Horizon Energy Distribution | 12 | 107 | 14 | 857 | 3,476 | 4,575 | |
| MainPower New Zealand | 15 | 177 | 25 | 880 | 8,470 | 10,521 | |
| Marlborough Lines | 16 | 278 | 31 | 0 | 4,019 | 2,922 | |
| Nelson Electricity | 1 | 36 | 3 | 193 | 197 | 309 | |
| Network Tasman | 14 | 267 | 27 | 25 | 4,693 | 1,769 | |
| Network Waitaki | 20 | 248 | 23 | 0 | 3,029 | 4,306 | |
| Northpower | 22 | 489 | 41 | 116 | 7,603 | 8,888 | |
| Orion New Zealand | 80 | 1,214 | 81 | 5,004 | 12,104 | 15,021 | |
| OtagoNet Joint Venture | 45 | 386 | 44 | 15 | 4,465 | 5,294 | |
| Powerco | 154 | 2,227 | 214 | 4,067 | 37,232 | 46,681 | |
| Scanpower | 0 | 0 | 0 | 0 | 1,509 | 2,001 | |
| The Lines Company | 25 | 414 | 47 | 0 | 5,687 | 8,351 | |
| The Power Company | 58 | 631 | 61 | 7 | 11,482 | 13,311 | |
| Top Energy | 16 | 459 | 38 | 23 | 6,381 | 2,184 | |
| Unison Networks | 40 | 658 | 61 | 101 | 10,344 | 13,171 | |
| Vector | 111 | 2,001 | 224 | 14,269 | 22,739 | 22,068 | |
| Waipa Networks | 0 | 0 | 0 | 0 | 3,758 | 5,758 | |
| WEL Networks | 26 | 195 | 49 | 0 | 6,208 | 8,015 | |
| Wellington Electricity Lines | 27 | 354 | 52 | 532 | 4,516 | 6,367 | |
| Westpower | 16 | 167 | 23 | 0 | 2,519 | 840 | |
| Average | 29 | 428 | 44 | 969 | 6,721 | 7,795 | |
| Median | 20 | 267 | 31 | 23 | 4,516 | 5,602 | |
| Minimum | 0 | 0 | 0 | 0 | 197 | 309 | |
| Maximum | 154 | 2,227 | 224 | 14,269 | 37,232 | 46,681 | |
| Industry Total | 841 | 12,425 | 1,283 | 28,112 | 194,917 | 226,048 | |

| Protection No. | Load Control | | Connections No. |
|-------------------|---------------------------|---------------|--------------------|
| | Centralised Plant Lot. | Relays No. | |
| 449 | 6 | 0 | 34,346 |
| 751 | 21 | 2,285 | 96,311 |
| 0 | 1 | 0 | 4,894 |
| 49 | 1 | 11 | 8,788 |
| 197 | 6 | 3,028 | 48,892 |
| 827 | 2 | 400 | 20,988 |
| 175 | 0 | 0 | 47,426 |
| 174 | 1 | 0 | 17,929 |
| 191 | 8 | 17,013 | 26,300 |
| 120 | 3 | 0 | 25,813 |
| 336 | 8 | 10,904 | 47,337 |
| 220 | 3 | 0 | 26,925 |
| 86 | 1 | 0 | 9,302 |
| 123 | 5 | 0 | 43,073 |
| 172 | 3 | 9,735 | 13,722 |
| 381 | 6 | 39,561 | 63,445 |
| 2,804 | 46 | 2,132 | 220,689 |
| 258 | 5 | 0 | 19,638 |
| 2,769 | 38 | 4,072 | 357,865 |
| 0 | 0 | 0 | 6,824 |
| 317 | 14 | 5,813 | 4,235 |
| 703 | 5 | 0 | 38,968 |
| 472 | 2 | 0 | 35,151 |
| 643 | 16 | 5,349 | 116,044 |
| 4,600 | 32 | 0 | 609,550 |
| 155 | 3 | 18,952 | 28,791 |
| 877 | 9 | 60,036 | 101,861 |
| 1,459 | 24 | 0 | 174,464 |
| 0 | 5 | 0 | 14,215 |
| 666 | 9 | 6,182 | 78,062 |
| 258 | 5 | 0 | 34,346 |
| 0 | 0 | 0 | 4,235 |
| 4,600 | 46 | 60,036 | 609,550 |
| 19,308 | 274 | 179,291 | 2,263,786 |

Age profile of electricity circuits

Definitions

Age Unknown = The total quantity of assets for which no installation information is known and no default date has been assigned

| | Total Km | Proportion of Circuits Installed by EDB | | | | | |
|------------------------------|-------------|---|------------------|------------------|------------------|------------------|--|
| | | Pre – 1940 % | 1940 – 1949 % | 1950 – 1959 % | 1960 – 1969 % | 1970 – 1979 % | |
| Alpine Energy | 4,361 | 0.0 | 0.0 | 20.6 | 15.0 | 13.9 | |
| Aurora Energy | 6,255 | 2.6 | 2.3 | 7.3 | 13.3 | 13.0 | |
| Buller Electricity | 650 | 0.0 | 0.2 | 1.4 | 15.9 | 17.5 | |
| Centralines | 1,864 | 0.2 | 10.4 | 18.9 | 12.8 | 9.2 | |
| Counties Energy | 3,515 | 0.8 | 1.2 | 2.0 | 6.6 | 7.2 | |
| EA Networks | 3,172 | 0.0 | 0.1 | 0.7 | 1.4 | 3.7 | |
| Electra | 2,380 | 0.0 | 3.8 | 4.1 | 14.5 | 21.7 | |
| Electricity Invercargill | 664 | 0.2 | 0.0 | 1.5 | 11.9 | 16.2 | |
| Firstlight Network | 3,942 | 1.8 | 3.3 | 20.0 | 31.4 | 16.6 | |
| Horizon Energy Distribution | 2,624 | 0.0 | 0.3 | 1.2 | 12.5 | 15.8 | |
| MainPower New Zealand | 5,200 | 0.5 | 0.1 | 0.6 | 3.9 | 15.1 | |
| Marlborough Lines | 3,444 | 1.6 | 1.4 | 4.8 | 15.6 | 21.4 | |
| Nelson Electricity | 296 | 0.4 | 0.0 | 0.6 | 13.3 | 21.8 | |
| Network Tasman | 3,715 | 1.0 | 5.3 | 19.0 | 17.4 | 8.5 | |
| Network Waitaki | 1,908 | 1.0 | 0.2 | 3.4 | 23.4 | 15.7 | |
| Northpower | 6,190 | 0.2 | 0.3 | 2.8 | 13.5 | 15.9 | |
| Orion New Zealand | 11,907 | 0.4 | 0.4 | 2.1 | 9.8 | 20.0 | |
| OtagoNet Joint Venture | 4,620 | 0.1 | 1.0 | 11.4 | 11.1 | 11.0 | |
| Powerco | 29,087 | 0.3 | 1.5 | 4.9 | 14.7 | 25.5 | |
| Scanpower | 1,052 | 0.0 | 0.0 | 0.2 | 7.9 | 11.0 | |
| The Lines Company | 4,427 | 0.1 | 2.7 | 16.7 | 21.1 | 17.0 | |
| The Power Company | 8,882 | 0.0 | 0.0 | 3.8 | 10.3 | 44.5 | |
| Top Energy | 4,190 | 0.0 | 3.3 | 4.8 | 14.4 | 19.3 | |
| Unison Networks | 9,342 | 0.3 | 0.9 | 3.9 | 14.4 | 18.7 | |
| Vector | 19,468 | 0.1 | 0.2 | 1.8 | 9.3 | 20.2 | |
| Waipa Networks | 2,305 | 0.2 | 0.0 | 0.0 | 0.3 | 3.0 | |
| WEL Networks | 5,618 | 0.0 | 0.1 | 0.1 | 3.8 | 33.0 | |
| Wellington Electricity Lines | 4,836 | 1.4 | 1.1 | 7.9 | 28.0 | 24.2 | |
| Westpower | 2,193 | 0.6 | 0.0 | 1.5 | 3.9 | 14.1 | |
| Average | 5,452 | 0.5 | 1.4 | 5.8 | 12.8 | 17.1 | |
| Median | 3,942 | 0.2 | 0.3 | 3.4 | 13.3 | 16.2 | |
| Minimum | 296 | 0.0 | 0.0 | 0.0 | 0.3 | 3.0 | |
| Maximum | 29,087 | 2.6 | 10.4 | 20.6 | 31.4 | 44.5 | |

Default Dates =

The total quantity of assets where the installation year is unknown and a default installation year has been allocated

| | Proportion of Circuits Installed by EDB | | | | | | Default Dates |
|------|---|-------------|-------------|-------------|-------------|-------------|---------------|
| | 1980 – 1989 | 1990 – 1999 | 2000 – 2009 | 2010 – 2019 | 2020 – 2023 | Age Unknown | |
| | % | % | % | % | % | % | % |
| 9.9 | 7.5 | 17.4 | 11.8 | 3.7 | 0.0 | 0.0 | 0.0 |
| 12.8 | 14.7 | 15.1 | 11.3 | 7.5 | 0.0 | 0.0 | 0.0 |
| 26.7 | 10.8 | 9.5 | 14.2 | 3.8 | 0.0 | 0.0 | 0.0 |
| 20.2 | 8.8 | 9.1 | 7.4 | 2.9 | 0.2 | 0.0 | 0.0 |
| 8.8 | 32.9 | 15.3 | 16.3 | 8.4 | 0.6 | 0.0 | 0.0 |
| 14.4 | 22.4 | 32.8 | 18.9 | 5.6 | 0.0 | 0.0 | 0.0 |
| 17.1 | 8.7 | 13.5 | 10.5 | 4.5 | 0.3 | 0.0 | 0.0 |
| 22.8 | 13.4 | 24.6 | 7.6 | 1.0 | 0.9 | 0.0 | 0.0 |
| 10.5 | 7.3 | 5.9 | 2.4 | 0.7 | 0.0 | 0.0 | 0.0 |
| 22.0 | 18.7 | 12.1 | 6.9 | 3.6 | 7.0 | 0.0 | 0.0 |
| 27.2 | 19.7 | 15.7 | 14.3 | 2.3 | 0.5 | 0.0 | 0.0 |
| 12.7 | 6.4 | 15.9 | 13.3 | 3.3 | 3.7 | 0.0 | 0.0 |
| 23.7 | 5.8 | 11.1 | 12.9 | 2.4 | 8.0 | 0.0 | 0.0 |
| 15.4 | 6.9 | 13.4 | 8.1 | 4.6 | 0.4 | 0.0 | 0.0 |
| 12.6 | 3.1 | 16.4 | 16.9 | 4.5 | 2.7 | 5.8 | |
| 21.1 | 14.8 | 16.2 | 11.6 | 3.5 | 0.0 | 5.8 | |
| 14.0 | 12.8 | 16.1 | 16.4 | 5.6 | 2.4 | 0.0 | |
| 12.0 | 11.1 | 15.7 | 16.8 | 2.8 | 6.9 | 0.0 | |
| 19.8 | 10.4 | 8.5 | 9.2 | 4.5 | 0.7 | 0.0 | |
| 25.7 | 23.3 | 22.0 | 7.9 | 1.4 | 0.7 | 0.0 | |
| 21.5 | 5.4 | 6.8 | 5.1 | 2.2 | 1.6 | 64.3 | |
| 15.0 | 5.7 | 12.4 | 6.5 | 1.1 | 0.6 | 0.0 | |
| 16.7 | 13.8 | 17.4 | 8.2 | 1.7 | 0.4 | 0.0 | |
| 24.2 | 10.6 | 12.2 | 7.7 | 4.1 | 3.1 | 0.0 | |
| 25.5 | 12.5 | 14.4 | 10.3 | 5.2 | 0.6 | 0.0 | |
| 51.4 | 27.2 | 7.7 | 7.8 | 2.3 | 0.0 | 0.0 | |
| 17.9 | 7.3 | 16.7 | 15.4 | 5.8 | 0.0 | 0.1 | |
| 12.5 | 9.0 | 7.9 | 5.6 | 2.3 | 0.0 | 0.7 | |
| 19.0 | 23.4 | 18.3 | 7.9 | 0.9 | 10.4 | 0.0 | |
| 19.1 | 12.9 | 14.5 | 10.7 | 3.5 | 1.8 | 2.6 | |
| 17.9 | 10.8 | 15.1 | 10.3 | 3.5 | 0.6 | 0.0 | |
| 8.8 | 3.1 | 5.9 | 2.4 | 0.7 | 0.0 | 0.0 | |
| 51.4 | 32.9 | 32.8 | 18.9 | 8.4 | 10.4 | 64.3 | |

Average asset condition (weighted by quantities)

Definitions

- H1 = Replacement recommended
 H2 = End of life drivers for replacement present: high asset related risk
 H3 = End of life drivers for replacement present: increasing asset related risk

| | Subtransmission Lines | Subtransmission Cables | Zone Substations | Distribution and LV Lines |
|------------------------------|-----------------------|------------------------|------------------|---------------------------|
| | Average Grade | Average Grade | Average Grade | Average Grade |
| Alpine Energy | 3.92 | 4.96 | 4.39 | 2.98 |
| Aurora Energy | 4.29 | 4.15 | 3.49 | 4.28 |
| Buller Electricity | 3.92 | 3.00 | 3.96 | 3.75 |
| Centralines | 3.59 | 5.00 | 4.53 | 3.56 |
| Counties Energy | 3.31 | 3.00 | 2.65 | 3.64 |
| EA Networks | 4.31 | 4.39 | 4.29 | 3.78 |
| Electra | 3.93 | 4.31 | 3.91 | 4.01 |
| Electricity Invercargill | 4.00 | 3.34 | 3.41 | 2.71 |
| Firstlight Network | 3.34 | 4.00 | 3.17 | 3.13 |
| Horizon Energy Distribution | 3.58 | 4.42 | 3.91 | 3.76 |
| MainPower New Zealand | 4.27 | 4.10 | 3.52 | 3.72 |
| Marlborough Lines | 3.51 | 4.87 | 4.57 | 3.24 |
| Nelson Electricity | - | 3.84 | 5.00 | 4.11 |
| Network Tasman | 3.90 | 4.18 | 4.24 | 3.68 |
| Network Waitaki | 4.37 | 4.07 | 3.85 | 3.19 |
| Northpower | 4.58 | 3.69 | 3.68 | 4.65 |
| Orion New Zealand | 4.22 | 4.57 | 4.11 | 4.29 |
| OtagoNet Joint Venture | 3.07 | 4.98 | 3.40 | 3.46 |
| Powerco | 3.96 | 4.74 | 3.81 | 3.42 |
| Scanpower | - | - | - | 3.82 |
| The Lines Company | 3.75 | 4.83 | 4.12 | 3.95 |
| The Power Company | 3.30 | 4.71 | 3.68 | 3.47 |
| Top Energy | 3.95 | 5.00 | 4.16 | 3.54 |
| Unison Networks | 3.43 | 4.23 | 4.15 | 3.43 |
| Vector | 3.14 | 4.25 | 3.94 | 3.18 |
| Waipa Networks | 4.98 | - | - | 4.02 |
| WEL Networks | 4.58 | 4.85 | 4.47 | 4.37 |
| Wellington Electricity Lines | 3.18 | 3.19 | 3.17 | 3.01 |
| Westpower | 3.77 | - | 3.61 | 3.66 |
| Average | 3.86 | 4.27 | 3.90 | 3.65 |
| Median | 3.92 | 4.28 | 3.91 | 3.66 |
| Minimum | 3.07 | 3.00 | 2.65 | 2.71 |
| Maximum | 4.98 | 5.00 | 5.00 | 4.65 |

H4 = Asset serviceable: no drivers for replacement, normal in-service deterioration

H5 = As new condition: no drivers for replacement

Unknown = Condition unknown or not yet assessed

| | Distribution and LV Cables | Poles | Distribution Substations and Transformers | Distribution Switchgear |
|--|----------------------------|---------------|---|-------------------------|
| | Average Grade | Average Grade | Average Grade | Average Grade |
| | 4.19 | 3.81 | 3.37 | 3.91 |
| | 4.49 | 4.30 | 3.96 | 4.01 |
| | 3.43 | 3.82 | 4.46 | 4.02 |
| | 4.18 | 3.93 | 4.47 | 4.01 |
| | 3.88 | 3.45 | 3.39 | 2.88 |
| | 4.57 | 4.22 | 4.21 | 4.46 |
| | 4.09 | 4.00 | 4.25 | 4.03 |
| | 3.29 | 4.05 | 3.41 | 3.40 |
| | 3.61 | 2.80 | 2.87 | 2.78 |
| | 3.88 | 3.78 | 3.70 | 3.89 |
| | 4.39 | 3.29 | 3.43 | 4.20 |
| | 4.53 | 3.77 | 3.45 | 4.30 |
| | 3.77 | 4.11 | 4.09 | 4.42 |
| | 3.91 | 3.84 | 3.84 | 3.69 |
| | 4.13 | 3.04 | 3.80 | 3.68 |
| | 4.91 | 4.81 | 3.84 | 3.72 |
| | 4.62 | 4.15 | 4.30 | 4.23 |
| | 4.87 | 3.91 | 2.96 | 3.74 |
| | 4.71 | 4.55 | 4.65 | 4.60 |
| | 4.32 | 4.30 | 3.44 | 4.02 |
| | 4.27 | 3.95 | 4.13 | 4.13 |
| | 4.25 | 3.93 | 3.47 | 3.96 |
| | 4.35 | 3.89 | 3.89 | 3.98 |
| | 3.90 | 3.97 | 3.98 | 3.59 |
| | 4.22 | 4.21 | 3.51 | 3.78 |
| | 4.52 | 4.27 | 3.49 | 3.54 |
| | 4.41 | 4.49 | 4.76 | 4.62 |
| | 3.34 | 3.92 | 3.34 | 3.34 |
| | 3.52 | 3.63 | 3.13 | 3.41 |
| | 4.16 | 3.94 | 3.78 | 3.87 |
| | 4.22 | 3.93 | 3.80 | 3.96 |
| | 3.29 | 2.80 | 2.87 | 2.78 |
| | 4.91 | 4.81 | 4.76 | 4.62 |

Proportion of assets forecast to be replaced in next five years

| | Subtransmission Lines | Subtransmission Cables | Zone Substations | Distribution and LV Lines | |
|------------------------------|-----------------------|------------------------|------------------|---------------------------|--|
| | % | % | % | % | |
| Alpine Energy | 0.0 | 0.0 | 2.1 | 2.0 | |
| Aurora Energy | 3.5 | 12.1 | 15.2 | 6.8 | |
| Buller Electricity | 0.0 | 0.0 | 0.0 | 2.3 | |
| Centralines | 0.0 | 0.0 | 12.2 | 1.0 | |
| Counties Energy | 0.0 | 0.0 | 12.3 | 6.5 | |
| EA Networks | 0.1 | 0.0 | 0.2 | 2.3 | |
| Electra | 10.0 | 0.0 | 2.5 | 6.0 | |
| Electricity Invercargill | 0.0 | 0.0 | 14.3 | 13.8 | |
| Firstlight Network | 0.0 | 0.0 | 12.0 | 1.3 | |
| Horizon Energy Distribution | 3.9 | 0.0 | 15.0 | 4.3 | |
| MainPower New Zealand | 0.0 | 0.0 | 5.8 | 1.9 | |
| Marlborough Lines | 4.0 | 0.0 | 1.9 | 5.6 | |
| Nelson Electricity | - | 0.0 | 0.0 | 0.0 | |
| Network Tasman | 0.0 | 0.0 | 1.4 | 4.2 | |
| Network Waitaki | 0.0 | 0.0 | 10.5 | 7.2 | |
| Northpower | 5.0 | 9.3 | 6.2 | 3.8 | |
| Orion New Zealand | 0.0 | 4.0 | 25.5 | 5.6 | |
| OtagoNet Joint Venture | 7.5 | 0.0 | 9.3 | 6.2 | |
| Powerco | 4.6 | 4.4 | 14.2 | 10.5 | |
| Scapower | - | - | - | 1.9 | |
| The Lines Company | 0.0 | 0.0 | 11.0 | 0.8 | |
| The Power Company | 0.6 | 0.0 | 5.5 | 2.8 | |
| Top Energy | 0.0 | 0.0 | 0.0 | 2.5 | |
| Unison Networks | 1.0 | 4.4 | 6.3 | 2.0 | |
| Vector | 0.0 | 6.0 | 10.8 | 0.7 | |
| Waipa Networks | 0.0 | - | - | 3.4 | |
| WEL Networks | 0.0 | 0.0 | 0.0 | 1.2 | |
| Wellington Electricity Lines | 0.0 | 29.0 | 4.5 | 1.7 | |
| Westpower | 0.0 | 0.0 | 0.4 | 0.0 | |
| Average | 1.5 | 2.6 | 7.4 | 3.7 | |
| Median | 0.0 | 0.0 | 6.2 | 2.5 | |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | |
| Maximum | 10.0 | 29.0 | 25.5 | 13.8 | |

| | Distribution and LV Cables | Poles | Distribution Substations and Transformers | Distribution Switchgear | Other Network Assets |
|--|-----------------------------------|--------------|--|--------------------------------|-----------------------------|
| | % | % | % | % | % |
| | 0.6 | 1.6 | 1.0 | 4.7 | 0.1 |
| | 1.0 | 12.5 | 5.3 | 12.0 | 6.2 |
| | 0.0 | 3.3 | 8.7 | 9.9 | 2.9 |
| | 0.4 | 2.1 | 2.9 | 2.1 | 0.5 |
| | 0.0 | 7.8 | 1.5 | 10.6 | 0.0 |
| | 0.2 | 1.7 | 2.2 | 0.5 | 0.0 |
| | 1.6 | 4.7 | 4.6 | 4.6 | 23.9 |
| | 2.3 | 0.6 | 10.9 | 8.3 | 0.9 |
| | 1.8 | 10.3 | 4.1 | 7.1 | 1.4 |
| | 7.2 | 1.9 | 7.2 | 2.7 | 0.1 |
| | 0.9 | 6.0 | 4.8 | 2.1 | 1.0 |
| | 0.9 | 3.7 | 2.0 | 2.3 | 0.1 |
| | 4.7 | 1.0 | 1.0 | 6.0 | 0.0 |
| | 0.8 | 2.4 | 2.5 | 7.8 | 5.0 |
| | 0.2 | 8.1 | 5.3 | 11.3 | 1.3 |
| | 0.3 | 1.4 | 3.2 | 7.6 | 0.1 |
| | 0.0 | 9.8 | 4.6 | 8.3 | 5.2 |
| | 0.0 | 3.5 | 4.0 | 8.1 | 5.3 |
| | 1.7 | 5.7 | 5.0 | 7.2 | 0.2 |
| | 0.0 | 3.5 | 6.7 | 0.0 | 10.0 |
| | 1.1 | 8.6 | 0.9 | 6.1 | 1.2 |
| | 0.0 | 2.5 | 0.7 | 17.4 | 0.2 |
| | 0.0 | 2.2 | 0.7 | 6.2 | 0.4 |
| | 0.7 | 2.2 | 7.1 | 5.7 | 1.1 |
| | 4.0 | 7.4 | 6.4 | 9.4 | 0.0 |
| | 1.3 | 2.1 | 4.3 | 3.5 | 0.8 |
| | 0.0 | 4.2 | 4.6 | 5.5 | 0.1 |
| | 0.4 | 4.8 | 6.3 | 8.8 | 0.1 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 1.1 | 4.3 | 4.1 | 6.4 | 2.4 |
| | 0.6 | 3.5 | 4.3 | 6.2 | 0.5 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 7.2 | 12.5 | 10.9 | 17.4 | 23.9 |

Circuit length by operating voltage

Definitions

Overhead = Circuits installed as overhead lines

Underground = Circuits installed as underground cables

| | Total Overhead and Underground | | | | |
|------------------------------|--------------------------------|-------|-------------|-------|-----------------------------|
| | >66kV | | 50kV & 66kV | 33kV | SWER (All SWER Voltages) |
| | km | km | km | km | km |
| Alpine Energy | 0 | 0 | | 284 | 7 |
| Aurora Energy | 0 | 130 | | 482 | 9 |
| Buller Electricity | 1 | 0 | | 106 | 0 |
| Centralines | 0 | 0 | | 96 | 0 |
| Counties Energy | 66 | 0 | | 55 | 0 |
| EA Networks | 0 | 331 | | 69 | 0 |
| Electra | 0 | 0 | | 217 | 0 |
| Electricity Invercargill | 0 | 0 | | 28 | 0 |
| Firstlight Network | 307 | 303 | | 34 | 1 |
| Horizon Energy Distribution | 0 | 71 | | 182 | 64 |
| MainPower New Zealand | 0 | 224 | | 168 | 118 |
| Marlborough Lines | 0 | 0 | | 308 | 536 |
| Nelson Electricity | 0 | 0 | | 18 | 0 |
| Network Tasman | 0 | 158 | | 164 | 0 |
| Network Waitaki | 0 | 0 | | 236 | 0 |
| Northpower | 28 | 75 | | 246 | 0 |
| Orion New Zealand | 0 | 354 | | 284 | 88 |
| OtagoNet Joint Venture | 0 | 74 | | 642 | 895 |
| Powerco | 13 | 169 | | 1,628 | 85 |
| Scanpower | 0 | 0 | | 0 | 0 |
| The Lines Company | 0 | 0 | | 452 | 938 |
| The Power Company | 0 | 531 | | 380 | 9 |
| Top Energy | 69 | 0 | | 343 | 424 |
| Unison Networks | 0 | 0 | | 490 | 111 |
| Vector | 76 | 0 | | 801 | 0 |
| Waipa Networks | 36 | 0 | | 0 | 0 |
| WEL Networks | 0 | 0 | | 446 | 0 |
| Wellington Electricity Lines | 0 | 0 | | 195 | 1 |
| Westpower | 9 | 60 | | 253 | 0 |
| Average | 21 | 86 | | 297 | 113 |
| Median | 0 | 0 | | 236 | 0 |
| Minimum | 0 | 0 | | 0 | 0 |
| Maximum | 307 | 531 | | 1,628 | 938 |
| Total Industry | 605 | 2,480 | | 8,608 | 3,287 |

| | Total Overhead and Underground | | | |
|--|---------------------------------|---|------------------------------|-------------|
| | 22kV (Other Than SWER) km | 6.6V to 11kV Inclusive (Other Than SWER) km | Low Voltage (< 1kV) km | Total km |
| | 160 | 3,199 | 724 | 4,374 |
| | 0 | 3,471 | 2,164 | 6,256 |
| | 0 | 391 | 152 | 650 |
| | 0 | 1,451 | 317 | 1,864 |
| | 836 | 1,000 | 1,588 | 3,545 |
| | 1,727 | 553 | 492 | 3,172 |
| | 0 | 1,111 | 1,051 | 2,380 |
| | 0 | 182 | 454 | 665 |
| | 0 | 2,521 | 779 | 3,945 |
| | 0 | 1,662 | 645 | 2,624 |
| | 913 | 2,772 | 1,003 | 5,198 |
| | 0 | 1,804 | 871 | 3,519 |
| | 0 | 83 | 196 | 296 |
| | 31 | 2,167 | 1,197 | 3,719 |
| | 0 | 1,343 | 329 | 1,908 |
| | 0 | 3,819 | 2,022 | 6,190 |
| | 0 | 5,901 | 5,279 | 11,907 |
| | 47 | 2,388 | 573 | 4,619 |
| | 122 | 16,812 | 10,258 | 29,087 |
| | 0 | 860 | 192 | 1,052 |
| | 0 | 2,356 | 680 | 4,426 |
| | 1 | 6,881 | 1,082 | 8,882 |
| | 17 | 2,466 | 910 | 4,228 |
| | 0 | 4,658 | 4,075 | 9,334 |
| | 174 | 7,582 | 10,835 | 19,468 |
| | 0 | 1,404 | 862 | 2,302 |
| | 0 | 2,683 | 2,488 | 5,617 |
| | 0 | 1,798 | 2,842 | 4,835 |
| | 0 | 1,494 | 377 | 2,193 |
| | 139 | 2,925 | 1,877 | 5,457 |
| | 0 | 2,167 | 871 | 3,945 |
| | 0 | 83 | 152 | 296 |
| | 1,727 | 16,812 | 10,835 | 29,087 |
| | 4,028 | 84,812 | 54,435 | 158,256 |

Overhead circuit characteristics and streetlight circuits

Definitions

Urban =

A circuit installed in an area where the average HV span length is approximately 40 – 50 metres, located in urbanised locations

Rural =

A circuit installed in an area where the average HV span length is approximately 70 – 80 metres, excluding those circuits located in remote and/or rugged areas

Remote =

A circuit, installed in an area situated more than 75 km from the nearest works depot

Rugged =

A circuit installed in an area where normal line construction vehicles and plant cannot be used or where difficult physical or climatic conditions exist and non standard line construction designs are employed to accommodate these conditions

Unallocated Lines =

A circuit installed in an area that is not an urban, rural, remote or rugged area



Overhead circuit characteristics and streetlight circuits

| | Overhead Circuit Length by Terrain | | | | | |
|------------------------------|------------------------------------|------------|------------|------------|-------------|------------|
| | Urban Only | | Rural Only | | Remote Only | |
| | km | % of total | km | % of total | km | % of total |
| Alpine Energy | 304 | 8.7 | 3,089 | 88.5 | 0 | 0.0 |
| Aurora Energy | 1,158 | 30.2 | 2,590 | 67.5 | 0 | 0.0 |
| Buller Electricity | 89 | 15.1 | 412 | 70.4 | 10 | 1.7 |
| Centralines | 139 | 8.2 | 1,159 | 68.1 | 44 | 2.6 |
| Counties Energy | 169 | 7.4 | 2,061 | 89.8 | 0 | 0.0 |
| EA Networks | 72 | 3.0 | 2,268 | 95.0 | 48 | 2.0 |
| Electra | 452 | 29.0 | 482 | 31.0 | 0 | 0.0 |
| Electricity Invercargill | 49 | 92.7 | 2 | 3.2 | 0 | 0.0 |
| Firstlight Network | 193 | 5.5 | 1,490 | 42.2 | 312 | 8.8 |
| Horizon Energy Distribution | 197 | 9.8 | 1,107 | 55.2 | 184 | 9.2 |
| MainPower New Zealand | 49 | 1.2 | 2,436 | 60.0 | 1,445 | 35.6 |
| Marlborough Lines | 326 | 11.6 | 851 | 30.2 | 0 | 0.0 |
| Nelson Electricity | 26 | 92.7 | 0 | 0.0 | 2 | 7.3 |
| Network Tasman | 176 | 6.6 | 2,285 | 86.0 | 70 | 2.6 |
| Network Waitaki | 351 | 20.5 | 1,357 | 79.4 | 2 | 0.1 |
| Northpower | 570 | 11.4 | 4,446 | 88.6 | 0 | 0.0 |
| Orion New Zealand | 1,662 | 31.0 | 3,141 | 58.5 | 144 | 2.7 |
| OtagoNet Joint Venture | 328 | 7.5 | 903 | 20.6 | 593 | 13.5 |
| Powerco | 2,649 | 12.2 | 7,277 | 33.5 | 0 | 0.0 |
| Scanpower | 45 | 4.7 | 907 | 95.3 | 0 | 0.0 |
| The Lines Company | 480 | 11.9 | 2,922 | 72.7 | 234 | 5.8 |
| The Power Company | 475 | 5.6 | 4,552 | 53.7 | 805 | 9.5 |
| Top Energy | 121 | 3.7 | 3,139 | 96.2 | 2 | 0.1 |
| Unison Networks | 1,379 | 25.1 | 1,321 | 24.1 | 248 | 4.5 |
| Vector | 4,632 | 56.3 | 3,595 | 43.7 | 0 | 0.0 |
| Waipa Networks | 213 | 12.0 | 1,480 | 83.5 | 0 | 0.0 |
| WEL Networks | 484 | 15.8 | 1,907 | 62.4 | 0 | 0.0 |
| Wellington Electricity Lines | 1,327 | 77.2 | 391 | 22.8 | 0 | 0.0 |
| Westpower | 139 | 7.3 | 1,377 | 71.9 | 147 | 7.7 |
| Average | 629 | 21.5 | 2,033 | 58.4 | 148 | 3.9 |
| Median | 304 | 11.6 | 1,490 | 62.4 | 2 | 0.1 |
| Minimum | 26 | 1.2 | 0 | 0.0 | 0 | 0.0 |
| Maximum | 4,632 | 92.7 | 7,277 | 96.2 | 1,445 | 35.6 |
| Industry Total | 18,252 | | 58,946 | | 4,289 | |

Overhead circuit characteristics and streetlight circuits continued

| | Overhead Circuit Length by Terrain | | | | | | | Streetlight | | |
|------------------------------|------------------------------------|------------|-------------------|------------|-------------------|------------|--------|-------------|--------|----|
| | Rugged Only | | Remote and Rugged | | Unallocated Lines | | O/head | U/ground | Total | |
| | km | % of total | km | % of total | km | % of total | km | km | km | km |
| Alpine Energy | 96 | 2.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | 0 |
| Aurora Energy | 88 | 2.3 | 0 | 0.0 | 0 | 0.0 | 531 | 540 | 1,071 | |
| Buller Electricity | 51 | 8.7 | 0 | 0.1 | 23 | 4.0 | 0 | 0 | 0 | 0 |
| Centralines | 361 | 21.2 | 0 | 0.0 | 0 | 0.0 | 44 | 29 | 73 | |
| Counties Energy | 64 | 2.8 | 0 | 0.0 | 0 | 0.0 | 0 | 53 | 53 | |
| EA Networks | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 16 | 325 | 341 | |
| Electra | 0 | 0.0 | 622 | 39.9 | 0 | 0.0 | 14 | 50 | 64 | |
| Electricity Invercargill | 2 | 4.0 | 0 | 0.0 | 0 | 0.0 | 25 | 146 | 170 | |
| Firstlight Network | 1,182 | 33.5 | 347 | 9.8 | 5 | 0.1 | 13 | 9 | 22 | |
| Horizon Energy Distribution | 400 | 20.0 | 116 | 5.8 | 0 | 0.0 | 0 | 21 | 21 | |
| MainPower New Zealand | 129 | 3.2 | 0 | 0.0 | 0 | 0.0 | 63 | 510 | 573 | |
| Marlborough Lines | 782 | 27.8 | 846 | 30.0 | 13 | 0.5 | 0 | 71 | 71 | |
| Nelson Electricity | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 67 | 68 | |
| Network Tasman | 118 | 4.4 | 8 | 0.3 | 0 | 0.0 | 0 | 0 | 0 | |
| Network Waitaki | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 75 | 35 | 111 | |
| Northpower | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | |
| Orion New Zealand | 183 | 3.4 | 237 | 4.4 | 0 | 0.0 | 894 | 2,978 | 3,872 | |
| OtagoNet Joint Venture | 1,798 | 40.9 | 672 | 15.3 | 102 | 2.3 | 81 | 37 | 118 | |
| Powerco | 11,448 | 52.8 | 327 | 1.5 | 0 | 0.0 | 1,067 | 2,027 | 3,093 | |
| Scanpower | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | |
| The Lines Company | 284 | 7.1 | 96 | 2.4 | 0 | 0.0 | 31 | 48 | 79 | |
| The Power Company | 2,029 | 23.9 | 614 | 7.2 | 0 | 0.0 | 271 | 92 | 363 | |
| Top Energy | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 10 | 311 | 321 | |
| Unison Networks | 2,541 | 46.3 | 0 | 0.0 | 0 | 0.0 | 358 | 1,525 | 1,883 | |
| Vector | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 17 | 486 | 503 | |
| Waipa Networks | 80 | 4.5 | 0 | 0.0 | 0 | 0.0 | 67 | 92 | 159 | |
| WEL Networks | 665 | 21.8 | 0 | 0.0 | 0 | 0.0 | 279 | 1,038 | 1,317 | |
| Wellington Electricity Lines | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 818 | 1,141 | 1,959 | |
| Westpower | 224 | 11.7 | 27 | 1.4 | 2 | 0.1 | 0 | 0 | 0 | |
| Average | 777 | 11.8 | 135 | 4.1 | 5 | 0.2 | 161 | 401 | 562 | |
| Median | 96 | 4.0 | 0 | 0.0 | 0 | 0.0 | 17 | 67 | 111 | |
| Minimum | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | 0 | |
| Maximum | 11,448 | 52.8 | 846 | 39.9 | 102 | 4.0 | 1,067 | 2,978 | 3,872 | |
| Industry Total | 22,526 | | 3,913 | | 146 | | 4,675 | 11,631 | 16,306 | |

Circuit length by special feature

| | Circuit Length by Special Feature | | | | | |
|------------------------------|-----------------------------------|---------------|--|------------|--------------------|------------|
| | Requiring Vegetation Management | | Within 10km of Coastline or Geothermal | | In Sensitive Areas | |
| | km | % of overhead | km | % of total | km | % of total |
| Alpine Energy | 755 | 21.6 | 1,780 | 40.7 | 36 | 0.8 |
| Aurora Energy | 3,836 | 100.0 | 1,469 | 23.5 | 58 | 0.9 |
| Buller Electricity | 585 | 100.0 | 650 | 100.0 | 0 | 0.0 |
| Centralines | 1,703 | 100.0 | 275 | 14.7 | 32 | 1.7 |
| Counties Energy | 2,294 | 100.0 | 1,608 | 45.4 | 2 | 0.1 |
| EA Networks | 2,403 | 100.7 | 476 | 15.0 | 0 | 0.0 |
| Electra | 1,557 | 100.0 | 1,930 | 81.1 | 16 | 0.7 |
| Electricity Invercargill | 4 | 7.7 | 664 | 100.0 | 0 | 0.0 |
| Firstlight Network | 3,528 | 100.0 | 0 | 0.0 | 1,000 | 25.3 |
| Horizon Energy Distribution | 2,005 | 100.0 | 1,982 | 75.5 | 498 | 19.0 |
| MainPower New Zealand | 2,010 | 49.5 | 2,317 | 44.6 | 0 | 0.0 |
| Marlborough Lines | 2,818 | 100.0 | 2,338 | 66.4 | 0 | 0.0 |
| Nelson Electricity | 28 | 100.0 | 296 | 100.0 | 0 | 0.0 |
| Network Tasman | 2,657 | 100.0 | 1,671 | 44.9 | 18 | 0.5 |
| Network Waitaki | 13 | 0.8 | 768 | 40.3 | 0 | 0.0 |
| Northpower | 5,016 | 100.0 | 3,417 | 55.2 | 0 | 0.0 |
| Orion New Zealand | 5,367 | 100.0 | 1,888 | 15.9 | 89 | 0.7 |
| OtagoNet Joint Venture | 663 | 15.1 | 1,121 | 24.3 | 0 | 0.0 |
| Powerco | 21,701 | 100.0 | 11,727 | 40.3 | 0 | 0.0 |
| Scanpower | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| The Lines Company | 1,083 | 27.0 | 240 | 5.4 | 598 | 13.5 |
| The Power Company | 1,573 | 18.6 | 1,542 | 17.4 | 0 | 0.0 |
| Top Energy | 470 | 14.4 | 3,879 | 91.7 | 1,324 | 31.3 |
| Unison Networks | 5,490 | 100.0 | 1,862 | 19.9 | 365 | 3.9 |
| Vector | 8,227 | 100.0 | 19,448 | 99.9 | 5,192 | 26.7 |
| Waipa Networks | 1,269 | 71.6 | 162 | 7.0 | 0 | 0.0 |
| WEL Networks | 2,048 | 67.0 | 378 | 6.7 | 859 | 15.3 |
| Wellington Electricity Lines | 1,546 | 90.0 | 4,255 | 88.0 | 0 | 0.0 |
| Westpower | 989 | 51.6 | 961 | 43.8 | 266 | 12.1 |
| Average | 2,815 | 70.2 | 2,383 | 45.1 | 357 | 5.3 |
| Median | 1,703 | 100.0 | 1,542 | 40.7 | 2 | 0.1 |
| Minimum | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Maximum | 21,701 | 100.7 | 19,448 | 100.0 | 5,192 | 31.3 |
| Industry Total | 81,638 | | 69,102 | | 10,353 | |

13. Network utilisation

Definitions

Number of Connections =

The number of points of connection to supply electricity to a consumer, as represented by unique ICP identifiers having a status of active or inactive recorded on the registry in accordance with the Electricity Industry Participation Code 2010

Embedded Network =

Network which conveys electricity (quantified by a meter) between another EDB network and consumers



Network connections

| | Number of Connections | Embedded Network Connections |
|------------------------------|-----------------------|------------------------------|
| | ICP | ICP |
| Alpine Energy | 33,539 | 0 |
| Aurora Energy | 94,323 | 0 |
| Buller Electricity | 4,815 | 0 |
| Centralines | 9,212 | 0 |
| Counties Energy | 46,963 | 0 |
| EA Networks | 20,538 | 14 |
| Electra | 46,333 | 0 |
| Electricity Invercargill | 17,562 | 0 |
| Firstlight Network | 25,872 | 0 |
| Horizon Energy Distribution | 25,179 | 0 |
| MainPower New Zealand | 44,109 | 0 |
| Marlborough Lines | 26,830 | 0 |
| Nelson Electricity | 9,297 | 0 |
| Network Tasman | 42,224 | 0 |
| Network Waitaki | 13,344 | 0 |
| Northpower | 63,002 | 0 |
| Orion New Zealand | 218,227 | 2 |
| OtagoNet Joint Venture | 19,361 | 646 |
| Powerco | 356,643 | 0 |
| Scanpower | 6,771 | 0 |
| The Lines Company | 24,016 | 0 |
| The Power Company | 37,327 | 0 |
| Top Energy | 33,740 | 2 |
| Unison Networks | 118,448 | 0 |
| Vector | 603,707 | 0 |
| Waipa Networks | 29,128 | 66 |
| WEL Networks | 98,601 | 1,903 |
| Wellington Electricity Lines | 173,512 | 0 |
| Westpower | 14,144 | 0 |
| Average | 77,820 | 91 |
| Median | 33,539 | 0 |
| Minimum | 4,815 | 0 |
| Maximum | 603,707 | 1,903 |
| Industry Total | 2,256,767 | 2,633 |

Network demand

Definitions

GXP Demand =

Maximum demand of all transmission grid exit point supplies to the network (MW)

Distributed Generation Output at HV and Above =

Total rate of power output, coincident with the GXP Demand, of all Distributed Generation that is connected to the network at high voltage or higher (MW)

Maximum Coincident System Demand =

The aggregate peak demand, being the coincident maximum sum of GXP Demand and Embedded Generation Output at HV and Above (MW)

Net Transfers to (from) Other EDBs at HV and Above =

Total rate of power transfer to (from) other EDB networks to which the network is connected (MW)

Demand on System for Supply to Consumers' Connection Points =

Maximum Coincident System Demand – Net Transfers to (from) Other EDBs at HV and Above (MW)



Network demand

| | Demand | | | | |
|------------------------------|------------|---|----------------------------------|--|---|
| | GXP Demand | Distributed Generation Output at HV and Above | Maximum Coincident System Demand | Net Transfers to (from) Other EDBs at HV and Above | Demand on System for Supply to Consumers' Connection Points |
| | MW | MW | MW | MW | MW |
| Alpine Energy | 135 | 7 | 142 | 0 | 142 |
| Aurora Energy | 261 | 48 | 309 | 1 | 309 |
| Buller Electricity | 7 | 4 | 11 | 0 | 11 |
| Centralines | 22 | 0 | 22 | 0 | 22 |
| Counties Energy | 126 | 8 | 134 | 0 | 134 |
| EA Networks | 155 | 1 | 156 | 0 | 156 |
| Electra | 82 | 26 | 108 | 0 | 108 |
| Electricity Invercargill | 70 | 0 | 70 | -2 | 72 |
| Firstlight Network | 58 | 7 | 65 | 0 | 65 |
| Horizon Energy Distribution | 64 | 29 | 94 | 0 | 94 |
| MainPower New Zealand | 122 | 0 | 122 | 0 | 122 |
| Marlborough Lines | 72 | 3 | 75 | 0 | 75 |
| Nelson Electricity | 34 | 0 | 34 | 0 | 34 |
| Network Tasman | 133 | 26 | 159 | 30 | 129 |
| Network Waitaki | 65 | 0 | 65 | 0 | 65 |
| Northpower | 153 | 5 | 157 | 0 | 157 |
| Orion New Zealand | 655 | 0 | 655 | 0 | 655 |
| OtagoNet Joint Venture | 68 | 4 | 72 | -1 | 73 |
| Powerco | 860 | 114 | 974 | 0 | 974 |
| Scanpower | 16 | 0 | 16 | 0 | 16 |
| The Lines Company | 61 | 14 | 75 | 0 | 75 |
| The Power Company | 148 | 13 | 161 | 1 | 160 |
| Top Energy | 21 | 57 | 78 | 0 | 78 |
| Unison Networks | 293 | 58 | 351 | 0 | 351 |
| Vector | 1,747 | 12 | 1,759 | 0 | 1,759 |
| Waipa Networks | 85 | 0 | 85 | 0 | 85 |
| WEL Networks | 241 | 40 | 281 | 0 | 281 |
| Wellington Electricity Lines | 481 | 57 | 538 | 0 | 538 |
| Westpower | 29 | 10 | 39 | 0 | 39 |
| Average | 216 | 19 | 235 | 1 | 234 |
| Median | 85 | 7 | 108 | 0 | 108 |
| Minimum | 7 | 0 | 11 | -2 | 11 |
| Maximum | 1,747 | 114 | 1,759 | 30 | 1,759 |
| Industry Total | 6,264 | 544 | 6,808 | 30 | 6,779 |

Network capacity and growth

Definitions

Distribution Transformer Capacity =

Maximum demand of all transmission grid exit point supplies to the network (MVA)

Zone Substation Transformer Capacity =

The sum of the capacities of all zone substation transformers (MVA)

Zone Substation Utilisation =

$$\frac{\text{Maximum Coincident System Demand}}{\text{Zone Substation Transformer Capacity}}$$

Current Peak Load =

The maximum total load supplied by the existing zone substation in the disclosure year (MVA)

Installed Firm Capacity =

The capacity as at the last day of the disclosure year that can be delivered from an existing zone substation following an outage of the highest capacity item of primary equipment within the zone substation or the highest capacity circuit supplying the zone substation (MVA)

Transfer Capacity =

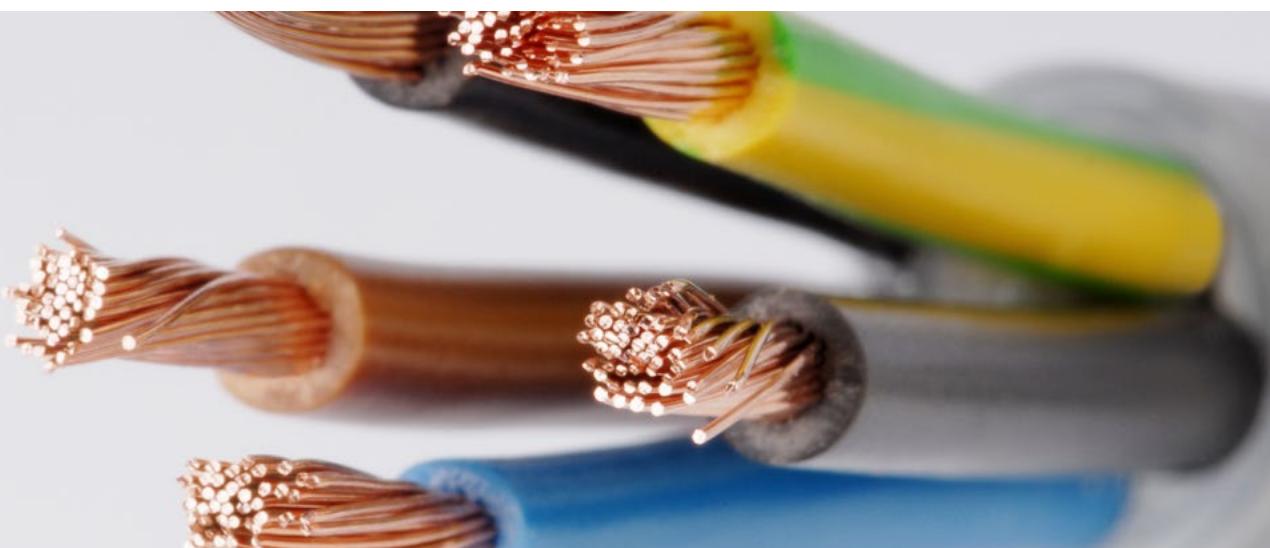
Sum of additional capacity, transferable within the timeframe of the EDB's security standards, that is available to augment the capacity of each zone substation by switching circuits, via the distribution feeder network, that may supply the existing zone substation from other zone substations (MVA)

Utilisation of Installed Firm Capacity =

$$\frac{\text{Sum of Current Peak Load for All Zone Substations}}{\text{Sum of Installed Firm Capacity for All Zone Substations}}$$

Forecast Installed Firm Capacity + 5 years =

Installed firm capacity forecast to be installed at the end of the year in 5 years' time (MVA)



Network capacity and growth

| | Distribution Transformer Capacity | | | Zone Substation Transformer Capacity MVA |
|------------------------------|-----------------------------------|---------------|------------|---|
| | EDB Owned | Non-EDB Owned | Total | |
| | MVA | MVA | MVA | |
| Alpine Energy | 654 | 15 | 669 | 368 |
| Aurora Energy | 957 | 68 | 1,025 | 1,010 |
| Buller Electricity | 38 | 10 | 48 | 52 |
| Centralines | 107 | 11 | 118 | 47 |
| Counties Energy | 436 | 66 | 502 | 545 |
| EA Networks | 598 | 13 | 611 | 326 |
| Electra | 336 | 15 | 351 | 358 |
| Electricity Invercargill | 156 | 2 | 158 | 94 |
| Firstlight Network | 222 | 50 | 273 | 337 |
| Horizon Energy Distribution | 273 | 81 | 354 | 98 |
| MainPower New Zealand | 589 | 10 | 599 | 143 |
| Marlborough Lines | 361 | 19 | 380 | 338 |
| Nelson Electricity | 100 | 0 | 100 | 48 |
| Network Tasman | 471 | 44 | 515 | 396 |
| Network Waitaki | 232 | 12 | 244 | 228 |
| Northpower | 600 | 5 | 605 | 354 |
| Orion New Zealand | 2,312 | 216 | 2,528 | 1,181 |
| OtagoNet Joint Venture | 236 | 9 | 245 | 162 |
| Powerco | 3,546 | 170 | 3,716 | 2,418 |
| Scanpower | 75 | 0 | 75 | - |
| The Lines Company | 260 | 12 | 271 | 233 |
| The Power Company | 478 | 24 | 501 | 468 |
| Top Energy | 298 | 0 | 298 | 478 |
| Unison Networks | 1,266 | 29 | 1,295 | 656 |
| Vector | 4,965 | 770 | 5,734 | 4,677 |
| Waipa Networks | 296 | 7 | 303 | - |
| WEL Networks | 971 | 49 | 1,020 | 766 |
| Wellington Electricity Lines | 1,497 | 28 | 1,526 | 1,067 |
| Westpower | 153 | 25 | 178 | 166 |
| Average | 775 | 61 | 836 | 630 |
| Median | 361 | 15 | 380 | 354 |
| Minimum | 38 | 0 | 48 | 47 |
| Maximum | 4,965 | 770 | 5,734 | 4,677 |
| Industry Total | 22,483 | 1,758 | 24,241 | 17,012 |

Network capacity and growth continued

| | Zone Substation Utilisation | | | | |
|------------------------------|-----------------------------|--------------------------------|--------------------------|---|---|
| | Current Peak Load MVA | Installed Firm Capacity MVA | Transfer Capacity MVA | Utilisation of Installed Firm Capacity % | Forecast Installed Firm Capacity + 5 Years MVA |
| Alpine Energy | 139 | 125 | 0 | 79.9 | 226 |
| Aurora Energy | 355 | 451 | 195 | 78.6 | 478 |
| Buller Electricity | 13 | 24 | 1 | 56.0 | 24 |
| Centralines | 25 | 25 | 15 | 100.8 | 25 |
| Counties Energy | 142 | 234 | 50 | 60.7 | 260 |
| EA Networks | 207 | 123 | 189 | 168.0 | 102 |
| Electra | 112 | 189 | 92 | 59.5 | 189 |
| Electricity Invercargill | 65 | 82 | 86 | 79.5 | 80 |
| Firstlight Network | 142 | 126 | 184 | 113.2 | 126 |
| Horizon Energy Distribution | 86 | 76 | 48 | 113.7 | 90 |
| MainPower New Zealand | 114 | 109 | 21 | 104.6 | 126 |
| Marlborough Lines | 104 | 171 | 78 | 61.0 | 193 |
| Nelson Electricity | 35 | 48 | 4 | 72.9 | 48 |
| Network Tasman | 135 | 201 | 54 | 67.3 | 220 |
| Network Waitaki | 68 | 136 | 68 | 49.7 | 147 |
| Northpower | 261 | 321 | 124 | 81.3 | 401 |
| Orion New Zealand | 763 | 993 | 731 | 76.8 | 1,053 |
| OtagoNet Joint Venture | 102 | 68 | 2 | 151.4 | 68 |
| Powerco | 1,048 | 1,049 | 476 | 99.9 | 1,297 |
| Scanpower | - | - | - | - | - |
| The Lines Company | 124 | 62 | 46 | 198.8 | 56 |
| The Power Company | 232 | 264 | 77 | 87.9 | 297 |
| Top Energy | 155 | 171 | 84 | 90.9 | 171 |
| Unison Networks | 380 | 441 | 85 | 86.1 | 570 |
| Vector | 2,150 | 2,617 | 2,462 | 82.2 | 2,692 |
| Waipa Networks | 91 | 88 | 0 | 103.7 | 197 |
| WEL Networks | 338 | 378 | 197 | 89.4 | 379 |
| Wellington Electricity Lines | 456 | 520 | 281 | 87.7 | 570 |
| Westpower | 64 | 124 | 13 | 51.9 | 124 |
| Average | 282 | 329 | 202 | 91.2 | 364 |
| Median | 137 | 153 | 77 | 84.1 | 191 |
| Minimum | 13 | 24 | 0 | 49.7 | 24 |
| Maximum | 2,150 | 2,617 | 2,462 | 198.8 | 2,692 |
| Industry Total | 7,907 | 9,213 | 5,662 | | 10,206 |

Electricity volumes

Definitions

Electricity Supplied from (to) GXPs (net) =

The total volume of electricity supplied through every GXP to which the network is connected net of the total volume of exports to the GXP (GWh)

Electricity Supplied From Distributed Generation =

Net volume of electricity supplied from all distributed generation connected to the network (GWh)

Electricity Supplied to (from) Other EDBs (net) =

The net volume of electricity supplied from (to) the network to (from) other EDBs (GWh)

Electricity Entering System for Supply to Consumers' Connection Points =

Electricity Supplied from (to) GXP + Electricity Supplied From Distributed Generation + Electricity Supplied to (from) Other EDBs (net) (GWh)

Total Energy Delivered to ICPs =

The volume of electricity supplied to connection points, as measured at connection points (GWh)

Electricity Losses =

Electricity Entering System for Supply to Consumers' Connection Points – Total Energy Delivered to ICPs (GWh)

Electricity Loss Ratio =

$$\frac{\text{Electricity Losses}}{\text{Electricity Entering System for Supply to Consumers' Connection Points}}$$



Electricity volumes

| | Electricity Volumes Supplied | | | |
|------------------------------|------------------------------|-----------------------------|-----|----------------------------|
| | From (to) GXP (net) | From Distributed Generation | | To (from) Other EDBs (net) |
| | | GWh | GWh | |
| Alpine Energy | 798 | 33 | | 0 |
| Aurora Energy | 1,137 | 301 | | 3 |
| Buller Electricity | 36 | 17 | | 0 |
| Centralines | 115 | 1 | | 0 |
| Counties Energy | 633 | 49 | | 0 |
| EA Networks | 455 | 145 | | 0 |
| Electra | 338 | 119 | | 0 |
| Electricity Invercargill | 249 | 0 | | -13 |
| Firstlight Network | 287 | 25 | | 0 |
| Horizon Energy Distribution | 279 | 283 | | 0 |
| MainPower New Zealand | 633 | 23 | | 0 |
| Marlborough Lines | 393 | 17 | | 0 |
| Nelson Electricity | 140 | 1 | | 0 |
| Network Tasman | 612 | 173 | | 92 |
| Network Waitaki | 283 | 1 | | 0 |
| Northpower | 816 | 21 | | 0 |
| Orion New Zealand | 3,501 | 20 | | 0 |
| OtagoNet Joint Venture | 419 | 59 | | -4 |
| Powerco | 4,491 | 734 | | 0 |
| Scanpower | 84 | 0 | | 0 |
| The Lines Company | 300 | 75 | | -16 |
| The Power Company | 652 | 226 | | 13 |
| Top Energy | -86 | 457 | | 0 |
| Unison Networks | 1,252 | 476 | | 0 |
| Vector | 8,660 | 153 | | 0 |
| Waipa Networks | 441 | 0 | | 0 |
| WEL Networks | 1,009 | 362 | | -15 |
| Wellington Electricity Lines | 2,147 | 224 | | 0 |
| Westpower | 95 | 145 | | 0 |
| Average | 1,040 | 143 | | 2 |
| Median | 441 | 59 | | 0 |
| Minimum | -86 | 0 | | -16 |
| Maximum | 8,660 | 734 | | 92 |
| Industry Total | 30,170 | 4,140 | | 60 |

| | Electricity Entering System for Supply to Consumers' Connection Points | Electricity Volumes Supplied | | Electricity Loss Ratio |
|--|--|------------------------------|-------|------------------------|
| | | GWh | GWh | |
| | 832 | 812 | 19 | 2.3 |
| | 1,435 | 1,355 | 79 | 5.5 |
| | 53 | 49 | 4 | 7.2 |
| | 116 | 108 | 8 | 6.8 |
| | 682 | 651 | 32 | 4.6 |
| | 600 | 564 | 36 | 6.0 |
| | 456 | 429 | 27 | 5.9 |
| | 262 | 250 | 12 | 4.6 |
| | 312 | 286 | 26 | 8.3 |
| | 562 | 537 | 26 | 4.6 |
| | 656 | 620 | 36 | 5.4 |
| | 411 | 390 | 21 | 5.0 |
| | 141 | 135 | 6 | 4.0 |
| | 693 | 654 | 40 | 5.7 |
| | 284 | 271 | 13 | 4.7 |
| | 837 | 792 | 46 | 5.4 |
| | 3,521 | 3,377 | 144 | 4.1 |
| | 482 | 463 | 19 | 3.9 |
| | 5,225 | 4,960 | 265 | 5.1 |
| | 84 | 77 | 6 | 7.3 |
| | 391 | 365 | 25 | 6.5 |
| | 865 | 822 | 42 | 4.9 |
| | 371 | 332 | 39 | 10.4 |
| | 1,728 | 1,679 | 49 | 2.9 |
| | 8,813 | 8,462 | 351 | 4.0 |
| | 441 | 420 | 21 | 4.8 |
| | 1,386 | 1,323 | 63 | 4.6 |
| | 2,371 | 2,287 | 84 | 3.5 |
| | 240 | 221 | 19 | 7.9 |
| | 1,181 | 1,127 | 54 | 5.4 |
| | 562 | 537 | 27 | 5.0 |
| | 53 | 49 | 4 | 2.3 |
| | 8,813 | 8,462 | 351 | 10.4 |
| | 34,249 | 32,694 | 1,556 | |

14. Network reliability

Definitions

| | |
|---|--|
| SAIDI = | $\frac{\text{Sum of Interruption Duration Factors for all Interruptions}}{\text{Average Number of Connection Points for Current Disclosure Year}}$ |
| SAIFI = | $\frac{\text{Sum of Number of Connection Points Affected by the Interruptions}}{\text{Average Number of Connection Points for Current Disclosure Year}}$ |
| CAIDI = | $\frac{\text{SAIDI}}{\text{SAIFI}}$ |
| Class B = | Planned interruptions originating within the network |
| Class C = | Unplanned interruptions originating within the network |
| Normalised SAIDI = | The sum of daily SAIDI values with extreme event days normalised using the IDD method |
| Normalised SAIFI = | The sum of daily SAIFI values with extreme event days normalised using the IDD method |
| Quality Path Normalised Reliability Limit = | DPP or CPP SAIDI and SAIFI quality limits applying to non-exempt EDBs in the disclosure year, with extreme event days normalised using the DPP or CPP method |



Reliability

| | Total Interruptions (All Classes) | | | Class B (Planned Interruptions on the Network) | | |
|------------------------------|--------------------------------------|----------------|------------------|---|----------------|------------------|
| | SAIDI Minutes | SAIFI Times | CAIDI Minutes | SAIDI Minutes | SAIFI Times | CAIDI Minutes |
| Alpine Energy | 241.5 | 1.50 | 161.1 | 89.5 | 0.32 | 282.8 |
| Aurora Energy | 343.7 | 3.21 | 107.0 | 174.1 | 0.60 | 289.2 |
| Buller Electricity | 793.7 | 4.46 | 177.9 | 264.6 | 0.76 | 348.8 |
| Centralines | 935.6 | 6.02 | 155.5 | 97.5 | 0.49 | 198.4 |
| Counties Energy | 535.4 | 4.04 | 132.4 | 228.3 | 0.77 | 296.5 |
| EA Networks | 238.0 | 1.78 | 133.8 | 121.4 | 0.46 | 264.8 |
| Electra | 102.0 | 1.35 | 75.5 | 17.8 | 0.08 | 222.1 |
| Electricity Invercargill | 65.6 | 0.65 | 100.3 | 27.8 | 0.08 | 341.7 |
| Firstlight Network | 1,598.6 | 5.51 | 290.3 | 133.5 | 0.74 | 181.4 |
| Horizon Energy Distribution | 485.2 | 3.36 | 144.2 | 95.6 | 0.62 | 153.9 |
| MainPower New Zealand | 306.6 | 2.13 | 144.0 | 165.7 | 0.47 | 352.5 |
| Marlborough Lines | 315.5 | 2.12 | 149.1 | 58.6 | 0.47 | 124.0 |
| Nelson Electricity | 62.5 | 0.38 | 162.5 | 42.1 | 0.13 | 323.7 |
| Network Tasman | 304.9 | 1.82 | 167.2 | 154.0 | 0.56 | 277.0 |
| Network Waitaki | 120.5 | 1.39 | 87.0 | 58.5 | 0.18 | 318.3 |
| Northpower | 1,215.0 | 7.79 | 156.0 | 115.6 | 0.44 | 265.2 |
| Orion New Zealand | 69.7 | 0.58 | 119.8 | 25.9 | 0.07 | 354.6 |
| OtagoNet Joint Venture | 520.0 | 3.22 | 161.6 | 251.4 | 0.86 | 291.3 |
| Powerco | 564.1 | 3.51 | 160.6 | 94.4 | 0.40 | 236.4 |
| Scanpower | 231.2 | 0.78 | 296.4 | 51.7 | 0.27 | 191.4 |
| The Lines Company | 956.6 | 5.57 | 171.8 | 192.3 | 0.62 | 309.6 |
| The Power Company | 496.4 | 4.41 | 112.5 | 147.7 | 0.64 | 229.9 |
| Top Energy | 1,917.6 | 7.02 | 273.1 | 126.4 | 0.67 | 187.9 |
| Unison Networks | 3,617.7 | 4.17 | 867.0 | 93.5 | 0.65 | 144.3 |
| Vector | 486.2 | 1.90 | 255.9 | 74.1 | 0.26 | 285.0 |
| Waipa Networks | 464.4 | 2.31 | 201.0 | 59.6 | 0.22 | 270.8 |
| WEL Networks | 201.2 | 1.73 | 116.0 | 50.5 | 0.29 | 172.3 |
| Wellington Electricity Lines | 54.3 | 0.64 | 85.2 | 13.1 | 0.07 | 190.1 |
| Westpower | 361.0 | 2.68 | 134.8 | 86.6 | 0.30 | 292.4 |
| Average | 607.1 | 2.97 | 182.7 | 107.3 | 0.43 | 255.0 |
| Median | 361.0 | 2.31 | 155.5 | 94.4 | 0.46 | 270.8 |
| Minimum | 54.3 | 0.38 | 75.5 | 13.1 | 0.07 | 124.0 |
| Maximum | 3,617.7 | 7.79 | 867.0 | 264.6 | 0.86 | 354.6 |

Reliability continued

| | Class C (Unplanned Interruptions on the Network) | | | Class B and C (Network Planned and Unplanned Interruptions on the Network) | | | |
|------------------------------|--|----------------|------------------|--|----------------|------------------|--|
| | SAIDI Minutes | SAIFI Times | CAIDI Minutes | SAIDI Minutes | SAIFI Times | CAIDI Minutes | |
| Alpine Energy | 104.7 | 0.88 | 118.8 | 194.2 | 1.20 | 162.2 | |
| Aurora Energy | 156.3 | 2.48 | 63.1 | 330.5 | 3.08 | 107.3 | |
| Buller Electricity | 483.1 | 2.50 | 193.1 | 747.7 | 3.26 | 229.3 | |
| Centralines | 683.8 | 4.21 | 162.4 | 781.4 | 4.70 | 166.1 | |
| Counties Energy | 297.8 | 3.20 | 93.1 | 526.2 | 3.97 | 132.5 | |
| EA Networks | 116.3 | 1.32 | 88.1 | 237.7 | 1.78 | 133.7 | |
| Electra | 84.2 | 1.27 | 66.3 | 102.0 | 1.35 | 75.5 | |
| Electricity Invercargill | 35.7 | 0.49 | 72.8 | 63.5 | 0.57 | 111.0 | |
| Firstlight Network | 1,465.1 | 4.77 | 307.1 | 1,598.6 | 5.51 | 290.3 | |
| Horizon Energy Distribution | 235.2 | 2.12 | 110.8 | 330.8 | 2.74 | 120.5 | |
| MainPower New Zealand | 141.0 | 1.66 | 85.0 | 306.6 | 2.13 | 144.0 | |
| Marlborough Lines | 256.9 | 1.64 | 156.3 | 315.5 | 2.12 | 149.1 | |
| Nelson Electricity | 20.4 | 0.25 | 80.0 | 62.5 | 0.38 | 162.5 | |
| Network Tasman | 121.1 | 1.17 | 103.6 | 275.1 | 1.73 | 159.5 | |
| Network Waitaki | 59.1 | 1.18 | 49.9 | 117.6 | 1.37 | 86.0 | |
| Northpower | 1,099.4 | 7.35 | 149.5 | 1,215.0 | 7.79 | 156.0 | |
| Orion New Zealand | 43.4 | 0.51 | 85.7 | 69.3 | 0.58 | 119.7 | |
| OtagoNet Joint Venture | 256.2 | 2.12 | 120.7 | 507.6 | 2.99 | 170.0 | |
| Powerco | 395.7 | 2.47 | 160.5 | 490.1 | 2.87 | 171.1 | |
| Scanpower | 179.5 | 0.51 | 352.0 | 231.2 | 0.78 | 296.4 | |
| The Lines Company | 656.0 | 3.98 | 164.7 | 848.3 | 4.60 | 184.3 | |
| The Power Company | 348.7 | 3.77 | 92.5 | 496.4 | 4.41 | 112.5 | |
| Top Energy | 1,791.3 | 6.35 | 282.1 | 1,917.6 | 7.02 | 273.1 | |
| Unison Networks | 1,820.9 | 2.59 | 704.3 | 1,914.4 | 3.23 | 592.1 | |
| Vector | 410.6 | 1.61 | 255.0 | 484.7 | 1.87 | 259.2 | |
| Waipa Networks | 404.8 | 2.09 | 193.7 | 464.4 | 2.31 | 201.0 | |
| WEL Networks | 149.2 | 1.43 | 104.0 | 199.6 | 1.73 | 115.6 | |
| Wellington Electricity Lines | 40.2 | 0.54 | 74.2 | 53.3 | 0.61 | 87.3 | |
| Westpower | 252.7 | 1.76 | 143.3 | 339.3 | 2.06 | 164.8 | |
| Average | 417.6 | 2.28 | 159.7 | 524.9 | 2.71 | 177.0 | |
| Median | 252.7 | 1.76 | 118.8 | 330.8 | 2.13 | 159.5 | |
| Minimum | 20.4 | 0.25 | 49.9 | 53.3 | 0.38 | 75.5 | |
| Maximum | 1,820.9 | 7.35 | 704.3 | 1,917.6 | 7.79 | 592.1 | |

| Normalised – Class B and C (Network Planned and Unplanned) ¹ | | Forecast 5 Year Average – Class B and C (Network Planned and Unplanned) | | | |
|---|-------------|---|-------------|---------------|--|
| SAIDI Minutes | SAIFI Times | SAIDI Minutes | SAIFI Times | CAIDI Minutes | |
| 194.2 | 1.20 | 146.9 | 1.90 | 77.3 | |
| 330.5 | 3.08 | 266.7 | 2.32 | 115.1 | |
| 469.1 | 2.30 | 786.9 | 4.54 | 173.3 | |
| 268.0 | 4.49 | 206.1 | 2.88 | 71.5 | |
| 468.2 | 3.97 | 289.0 | 2.47 | 117.0 | |
| 237.7 | 1.78 | 210.0 | 1.65 | 127.3 | |
| 102.0 | 1.35 | 83.0 | 1.66 | 50.0 | |
| 63.5 | 0.57 | 70.9 | 0.84 | 84.8 | |
| 489.8 | 3.77 | 301.1 | 3.38 | 89.1 | |
| 329.7 | 2.74 | 201.5 | 2.13 | 94.6 | |
| 292.5 | 2.13 | 255.8 | 1.86 | 137.2 | |
| 258.2 | 2.12 | 160.2 | 1.64 | 97.7 | |
| 29.4 | 0.22 | 30.0 | 0.90 | 33.3 | |
| 269.4 | 1.73 | 170.0 | 1.74 | 97.8 | |
| 117.6 | 1.37 | 160.0 | 1.80 | 88.9 | |
| 334.8 | 5.35 | 255.0 | 3.00 | 85.0 | |
| 69.3 | 0.58 | 79.7 | 0.99 | 80.5 | |
| 455.3 | 2.89 | 292.3 | 2.68 | 109.0 | |
| 314.7 | 2.84 | 288.1 | 2.69 | 107.0 | |
| 139.8 | 0.78 | 132.6 | 1.18 | 112.8 | |
| 580.5 | 4.52 | 270.9 | 3.33 | 81.4 | |
| 403.4 | 4.41 | 330.2 | 3.44 | 95.9 | |
| 924.9 | 7.02 | 500.0 | 5.01 | 99.8 | |
| 202.1 | 3.05 | 184.9 | 2.23 | 83.0 | |
| 232.5 | 1.87 | 221.9 | 4.22 | 52.6 | |
| 175.7 | 2.23 | 235.5 | 2.21 | 106.5 | |
| 156.2 | 1.73 | 106.2 | 1.37 | 77.5 | |
| 53.3 | 0.61 | 46.2 | 0.58 | 79.6 | |
| 283.2 | 1.93 | 177.0 | 2.10 | 84.3 | |
| 284.3 | 2.50 | 222.7 | 2.30 | 93.4 | |
| 268.0 | 2.13 | 206.1 | 2.13 | 89.1 | |
| 29.4 | 0.22 | 30.0 | 0.58 | 33.3 | |
| 924.9 | 7.02 | 786.9 | 5.01 | 173.3 | |

¹ The IDD normalisation method differs from the method used for the 2021-25 DPP. It is consistent with the method used for the 2010-15 DPP. These values therefore are not directly comparable with the Quality Path Reliability Limits. The table on page 9 shows non-exempt EDBs' compliance with the quality standards.

Interruption causes

Definitions

| | |
|----------------------------|--|
| Lightning = | Unplanned customer interruptions where the primary cause is a lightning strike |
| Vegetation = | All unplanned customer interruptions resulting from vegetation contact (including debris, grass and tree contact) |
| Adverse Weather = | Unplanned interruptions caused by adverse weather (not including lightning, vegetation contact or adverse environment) |
| Adverse Environment = | Unplanned interruptions caused by adverse environment, such as slips or seismic events |
| Third Party Interference = | Unplanned customer interruptions resulting from external contractors or members of the public (including dig-in, overhead contact, vandalism, and vehicle damage) |
| Wildlife = | All unplanned customer interruptions resulting from wildlife contact (including birds, possums, vermin, cats etc) |
| Human Error = | Unplanned customer interruptions resulting from contractors or staff, commissioning errors, incorrect protection settings, SCADA problems, switching errors, dig-in and overhead contact |
| Defective Equipment = | Unplanned customer interruptions resulting from equipment failure, either mechanical or electrical |
| Cause Unknown = | All unplanned interruptions where the cause is not known |



SAIDI by cause

| | SAIDI – Class C (Unplanned Interruptions on the Network) | | | |
|------------------------------|--|-----------------------|----------------------------|--------------------------------|
| | Lightning Minutes | Vegetation Minutes | Adverse Weather Minutes | Adverse Environment Minutes |
| Alpine Energy | 2.4 | 2.6 | 24.0 | 0.0 |
| Aurora Energy | 1.1 | 24.0 | 12.3 | 0.0 |
| Buller Electricity | 54.6 | 6.2 | 358.1 | 0.0 |
| Centralines | 1.6 | 86.9 | 513.6 | 0.0 |
| Counties Energy | 3.8 | 114.3 | 1.0 | 16.0 |
| EA Networks | 1.9 | 48.5 | 6.7 | 0.4 |
| Electra | 19.8 | 27.3 | 6.3 | 0.0 |
| Electricity Invercargill | 0.0 | 0.0 | 2.6 | 0.0 |
| Firstlight Network | 2.5 | 645.0 | 530.1 | 124.0 |
| Horizon Energy Distribution | 20.2 | 11.2 | 91.2 | 12.8 |
| MainPower New Zealand | 2.2 | 26.3 | 35.1 | 0.8 |
| Marlborough Lines | 6.4 | 11.5 | 54.4 | 113.4 |
| Nelson Electricity | 0.0 | 0.0 | 0.0 | 0.0 |
| Network Tasman | 2.5 | 0.1 | 37.5 | 0.0 |
| Network Waitaki | 2.8 | 8.8 | 7.0 | 0.2 |
| Northpower | 0.5 | 21.9 | 992.5 | 0.0 |
| Orion New Zealand | 0.4 | 4.5 | 9.4 | 0.8 |
| OtagoNet Joint Venture | 7.4 | 88.4 | 54.3 | 1.8 |
| Powerco | 10.4 | 170.8 | 24.2 | 1.4 |
| Scanpower | 0.0 | 131.6 | 0.0 | 0.0 |
| The Lines Company | 10.7 | 374.6 | 108.8 | 1.6 |
| The Power Company | 8.6 | 53.3 | 115.1 | 0.0 |
| Top Energy | 20.1 | 884.7 | 613.0 | 7.9 |
| Unison Networks | 4.1 | 425.9 | 1,278.9 | 0.4 |
| Vector | 0.4 | 188.4 | 21.7 | 41.7 |
| Waipa Networks | 2.5 | 43.6 | 231.2 | 2.5 |
| WEL Networks | 1.6 | 18.3 | 54.6 | 0.0 |
| Wellington Electricity Lines | 1.6 | 7.2 | 0.2 | 0.0 |
| Westpower | 38.4 | 21.5 | 21.1 | 0.0 |
| Average | 7.9 | 118.9 | 179.5 | 11.2 |
| Median | 2.5 | 26.3 | 35.1 | 0.2 |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 |
| Maximum | 54.6 | 884.7 | 1,278.9 | 124.0 |

SAIDI by cause continued

| | SAIDI – Class C (Unplanned Interruptions on the Network) | | | | |
|------------------------------|--|---------------------|------------------------|--------------------------------|--------------------------|
| | Third Party Interference Minutes | Wildlife Minutes | Human Error Minutes | Defective Equipment Minutes | Cause Unknown Minutes |
| Alpine Energy | 33.9 | 3.0 | 0.0 | 31.4 | 7.5 |
| Aurora Energy | 10.7 | 1.3 | 17.0 | 58.2 | 31.7 |
| Buller Electricity | 8.9 | 10.6 | 4.9 | 32.1 | 7.5 |
| Centralines | 16.8 | 17.9 | 0.0 | 29.1 | 18.0 |
| Counties Energy | 54.8 | 5.0 | 2.5 | 68.8 | 31.7 |
| EA Networks | 10.6 | 5.1 | 2.0 | 34.0 | 7.2 |
| Electra | 8.6 | 1.1 | 2.4 | 17.7 | 1.1 |
| Electricity Invercargill | 1.6 | 0.1 | 0.1 | 31.0 | 0.2 |
| Firstlight Network | 33.3 | 16.0 | 7.8 | 73.0 | 33.4 |
| Horizon Energy Distribution | 27.4 | 4.3 | 9.4 | 46.3 | 12.4 |
| MainPower New Zealand | 25.5 | 2.9 | 0.1 | 31.1 | 16.9 |
| Marlborough Lines | 19.0 | 13.6 | 2.7 | 28.6 | 7.3 |
| Nelson Electricity | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 |
| Network Tasman | 12.2 | 14.5 | 1.5 | 25.3 | 27.6 |
| Network Waitaki | 7.0 | 5.6 | 0.3 | 20.4 | 7.0 |
| Northpower | 29.9 | 7.4 | 0.3 | 27.0 | 19.9 |
| Orion New Zealand | 4.6 | 1.1 | 1.2 | 18.7 | 2.7 |
| OtagoNet Joint Venture | 9.8 | 8.9 | 1.0 | 58.9 | 25.6 |
| Powerco | 28.5 | 11.8 | 1.3 | 115.1 | 32.3 |
| Scanpower | 18.9 | 0.0 | 0.0 | 28.1 | 0.0 |
| The Lines Company | 23.9 | 13.6 | 4.2 | 91.2 | 27.5 |
| The Power Company | 41.4 | 7.1 | 3.6 | 86.2 | 33.4 |
| Top Energy | 36.9 | 17.9 | 0.4 | 158.1 | 52.2 |
| Unison Networks | 16.2 | 3.5 | 0.4 | 17.4 | 74.0 |
| Vector | 19.6 | 2.8 | 0.6 | 88.8 | 46.6 |
| Waipa Networks | 37.0 | 5.7 | 6.2 | 51.7 | 21.0 |
| WEL Networks | 27.5 | 3.5 | 2.5 | 33.4 | 7.9 |
| Wellington Electricity Lines | 6.0 | 1.0 | 0.8 | 19.3 | 4.0 |
| Westpower | 4.8 | 22.1 | 2.4 | 43.1 | 7.1 |
| Average | 19.8 | 7.2 | 2.6 | 47.7 | 19.4 |
| Median | 18.9 | 5.1 | 1.3 | 32.1 | 16.9 |
| Minimum | 0.0 | 0.0 | 0.0 | 17.4 | 0.0 |
| Maximum | 54.8 | 22.1 | 17.0 | 158.1 | 74.0 |

SAIFI by cause

| | SAIFI – Class C (Unplanned Interruptions on the Network) | | | |
|------------------------------|--|---------------------|--------------------------|------------------------------|
| | Lightning Times | Vegetation Times | Adverse Weather Times | Adverse Environment Times |
| Alpine Energy | 0.03 | 0.03 | 0.14 | 0.00 |
| Aurora Energy | 0.03 | 0.29 | 0.06 | 0.01 |
| Buller Electricity | 0.34 | 0.05 | 1.47 | 0.00 |
| Centralines | 0.10 | 0.57 | 0.84 | 0.00 |
| Counties Energy | 0.05 | 0.90 | 0.01 | 0.02 |
| EA Networks | 0.04 | 0.22 | 0.05 | 0.00 |
| Electra | 0.36 | 0.21 | 0.15 | 0.00 |
| Electricity Invercargill | 0.00 | 0.00 | 0.02 | 0.00 |
| Firstlight Network | 0.07 | 0.95 | 2.14 | 0.07 |
| Horizon Energy Distribution | 0.17 | 0.09 | 0.36 | 0.06 |
| MainPower New Zealand | 0.02 | 0.27 | 0.16 | 0.01 |
| Marlborough Lines | 0.02 | 0.14 | 0.11 | 0.24 |
| Nelson Electricity | 0.00 | 0.00 | 0.00 | 0.00 |
| Network Tasman | 0.02 | 0.00 | 0.28 | 0.00 |
| Network Waitaki | 0.07 | 0.10 | 0.04 | 0.00 |
| Northpower | 0.03 | 0.41 | 4.70 | 0.00 |
| Orion New Zealand | 0.00 | 0.07 | 0.05 | 0.00 |
| OtagoNet Joint Venture | 0.06 | 0.49 | 0.23 | 0.00 |
| Powerco | 0.09 | 0.53 | 0.08 | 0.00 |
| Scanpower | 0.00 | 0.17 | 0.00 | 0.00 |
| The Lines Company | 0.06 | 1.14 | 0.59 | 0.00 |
| The Power Company | 0.08 | 0.36 | 0.81 | 0.00 |
| Top Energy | 0.09 | 1.90 | 1.43 | 0.02 |
| Unison Networks | 0.07 | 0.75 | 0.49 | 0.00 |
| Vector | 0.00 | 0.45 | 0.07 | 0.04 |
| Waipa Networks | 0.08 | 0.41 | 0.33 | 0.03 |
| WEL Networks | 0.03 | 0.11 | 0.30 | 0.00 |
| Wellington Electricity Lines | 0.01 | 0.10 | 0.00 | 0.00 |
| Westpower | 0.31 | 0.28 | 0.16 | 0.00 |
| Average | 0.08 | 0.38 | 0.52 | 0.02 |
| Median | 0.05 | 0.27 | 0.16 | 0.00 |
| Minimum | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum | 0.36 | 1.90 | 4.70 | 0.24 |

SAIFI by cause continued

| | SAIFI – Class C (Unplanned Interruptions on the Network) | | | | |
|------------------------------|--|-------------------|----------------------|------------------------------|------------------------|
| | Third Party Interference Times | Wildlife Times | Human Error Times | Defective Equipment Times | Cause Unknown Times |
| Alpine Energy | 0.28 | 0.03 | 0.00 | 0.26 | 0.11 |
| Aurora Energy | 0.15 | 0.02 | 0.39 | 0.94 | 0.59 |
| Buller Electricity | 0.07 | 0.21 | 0.10 | 0.23 | 0.06 |
| Centralines | 0.44 | 0.50 | 0.00 | 1.01 | 0.74 |
| Counties Energy | 0.36 | 0.19 | 0.18 | 0.74 | 0.75 |
| EA Networks | 0.15 | 0.11 | 0.14 | 0.45 | 0.16 |
| Electra | 0.11 | 0.01 | 0.04 | 0.35 | 0.03 |
| Electricity Invercargill | 0.11 | 0.00 | 0.00 | 0.35 | 0.00 |
| Firstlight Network | 0.32 | 0.16 | 0.16 | 0.57 | 0.32 |
| Horizon Energy Distribution | 0.18 | 0.04 | 0.06 | 0.78 | 0.37 |
| MainPower New Zealand | 0.37 | 0.05 | 0.01 | 0.43 | 0.35 |
| Marlborough Lines | 0.22 | 0.25 | 0.20 | 0.31 | 0.16 |
| Nelson Electricity | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| Network Tasman | 0.08 | 0.14 | 0.09 | 0.20 | 0.35 |
| Network Waitaki | 0.16 | 0.09 | 0.02 | 0.44 | 0.26 |
| Northpower | 0.37 | 0.17 | 0.02 | 0.59 | 1.05 |
| Orion New Zealand | 0.07 | 0.01 | 0.02 | 0.24 | 0.04 |
| OtagoNet Joint Venture | 0.11 | 0.08 | 0.00 | 0.53 | 0.62 |
| Powerco | 0.23 | 0.21 | 0.07 | 0.93 | 0.33 |
| Scanpower | 0.12 | 0.00 | 0.00 | 0.21 | 0.00 |
| The Lines Company | 0.08 | 0.44 | 0.16 | 0.81 | 0.69 |
| The Power Company | 0.53 | 0.10 | 0.11 | 1.17 | 0.61 |
| Top Energy | 0.36 | 0.34 | 0.07 | 1.25 | 0.88 |
| Unison Networks | 0.29 | 0.09 | 0.09 | 0.42 | 0.37 |
| Vector | 0.18 | 0.04 | 0.05 | 0.41 | 0.36 |
| Waipa Networks | 0.24 | 0.06 | 0.14 | 0.38 | 0.43 |
| WEL Networks | 0.28 | 0.07 | 0.04 | 0.44 | 0.17 |
| Wellington Electricity Lines | 0.08 | 0.02 | 0.01 | 0.25 | 0.06 |
| Westpower | 0.02 | 0.18 | 0.01 | 0.19 | 0.13 |
| Average | 0.21 | 0.12 | 0.07 | 0.52 | 0.35 |
| Median | 0.18 | 0.09 | 0.05 | 0.43 | 0.33 |
| Minimum | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 |
| Maximum | 0.53 | 0.50 | 0.39 | 1.25 | 1.05 |

SAIDI by main equipment involved

| | | | | | |
|--------------------------|--|--|--|--|--|
| Subtransmission Lines = | Overhead power lines operated at a subtransmission voltage | | | | |
| Subtransmission Cables = | Underground power cables operated at a subtransmission voltage | | | | |
| Subtransmission Other = | Other equipment operated at a subtransmission voltage | | | | |
| Distribution Lines = | Overhead power lines operated at distribution voltage | | | | |
| Distribution Cables = | Underground power cables operated at distribution voltage | | | | |
| Distribution Other = | Other equipment operated at a distribution voltage | | | | |

| | SAIDI – Class B (Planned Interruptions on the Network) | | | | | |
|------------------------------|--|------------------------|-----------------------|--------------------|---------------------|--------------------|
| | Subtransmission Lines | Subtransmission Cables | Subtransmission Other | Distribution Lines | Distribution Cables | Distribution Other |
| Alpine Energy | 0.0 | 0.0 | 0.0 | 72.9 | 14.8 | 1.8 |
| Aurora Energy | 1.9 | 0.5 | 0.7 | 124.5 | 36.3 | 10.3 |
| Buller Electricity | 33.9 | 0.0 | 0.0 | 205.4 | 25.3 | 0.0 |
| Centralines | 0.1 | 0.0 | 0.0 | 96.7 | 0.7 | 0.0 |
| Counties Energy | 0.0 | 0.0 | 0.0 | 175.0 | 49.8 | 3.5 |
| EA Networks | 6.2 | 0.0 | 0.0 | 110.8 | 4.4 | 0.0 |
| Electra | 0.0 | 0.0 | 0.0 | 4.0 | 0.0 | 13.8 |
| Electricity Invercargill | 0.0 | 0.0 | 0.0 | 6.8 | 1.4 | 19.5 |
| Firstlight Network | 0.2 | 0.0 | 0.0 | 131.9 | 1.3 | 0.0 |
| Horizon Energy Distribution | 0.4 | 0.0 | 0.0 | 81.7 | 13.6 | 0.0 |
| MainPower New Zealand | 0.0 | 0.0 | 0.0 | 141.8 | 23.4 | 0.5 |
| Marlborough Lines | 0.3 | 0.0 | 0.0 | 41.9 | 2.9 | 13.6 |
| Nelson Electricity | 0.0 | 0.0 | 0.0 | 2.6 | 39.6 | 0.0 |
| Network Tasman | 54.2 | 0.0 | 0.0 | 93.1 | 3.7 | 3.0 |
| Network Waitaki | 0.0 | 0.0 | 0.0 | 58.2 | 0.3 | 0.0 |
| Northpower | 3.4 | 0.0 | 0.0 | 103.0 | 9.2 | 0.0 |
| Orion New Zealand | 0.0 | 0.0 | 0.0 | 13.7 | 0.1 | 12.0 |
| OtagoNet Joint Venture | 27.7 | 0.0 | 20.7 | 183.1 | 0.0 | 19.8 |
| Powerco | 3.6 | 0.0 | 0.0 | 90.3 | 0.5 | 0.0 |
| Scanpower | - | - | - | 30.6 | 0.0 | 21.1 |
| The Lines Company | 16.2 | 0.0 | 0.0 | 176.1 | 0.0 | 0.0 |
| The Power Company | 5.2 | 0.0 | 0.0 | 130.5 | 0.9 | 11.1 |
| Top Energy | 0.0 | 0.0 | 0.0 | 107.5 | 18.9 | 0.0 |
| Unison Networks | 2.1 | 0.0 | 0.1 | 75.1 | 16.2 | 0.0 |
| Vector | 0.0 | 0.0 | 0.0 | 34.3 | 2.1 | 37.7 |
| Waipa Networks | - | - | - | 53.1 | 1.9 | 4.6 |
| WEL Networks | 0.0 | 0.0 | 0.0 | 27.1 | 0.0 | 23.4 |
| Wellington Electricity Lines | 0.0 | 0.0 | 0.0 | 12.1 | 1.0 | 0.0 |
| Westpower | 0.0 | 0.0 | 10.6 | 73.2 | 0.9 | 1.9 |
| Average | 5.8 | 0.0 | 1.2 | 84.7 | 9.3 | 6.8 |
| Median | 0.1 | 0.0 | 0.0 | 81.7 | 1.9 | 1.8 |
| Minimum | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 |
| Maximum | 54.2 | 0.5 | 20.7 | 205.4 | 49.8 | 37.7 |

SAIDI by main equipment involved continued

| | SAIDI – Class C (Unplanned Interruptions on the Network) | | | | | |
|------------------------------|--|------------------------|-----------------------|--------------------|---------------------|--------------------|
| | Subtransmission Lines | Subtransmission Cables | Subtransmission Other | Distribution Lines | Distribution Cables | Distribution Other |
| Alpine Energy | 0.0 | 0.0 | 0.0 | 88.9 | 15.1 | 0.0 |
| Aurora Energy | 9.4 | 1.3 | 20.5 | 93.7 | 8.7 | 22.7 |
| Buller Electricity | 119.0 | 0.0 | 0.0 | 364.1 | 0.0 | 0.0 |
| Centralines | 15.2 | 0.0 | 0.0 | 667.0 | 1.6 | 0.0 |
| Counties Energy | 19.4 | 0.0 | 5.2 | 246.9 | 1.7 | 24.6 |
| EA Networks | 6.5 | 0.0 | 0.0 | 104.8 | 5.0 | 0.0 |
| Electra | 2.8 | 0.0 | 0.0 | 45.3 | 3.5 | 32.7 |
| Electricity Invercargill | 0.0 | 0.0 | 0.0 | 9.6 | 22.9 | 3.3 |
| Firstlight Network | 158.6 | 0.0 | 0.0 | 1,298.7 | 7.8 | 0.0 |
| Horizon Energy Distribution | 19.9 | 0.0 | 0.0 | 210.8 | 4.4 | 0.0 |
| MainPower New Zealand | 23.0 | 0.0 | 0.0 | 100.0 | 18.1 | 0.0 |
| Marlborough Lines | 2.5 | 0.0 | 1.3 | 225.1 | 1.3 | 26.8 |
| Nelson Electricity | 0.0 | 0.0 | 0.0 | 0.0 | 20.4 | 0.0 |
| Network Tasman | 43.1 | 0.0 | 0.0 | 74.5 | 3.3 | 0.3 |
| Network Waitaki | 8.8 | 0.0 | 0.0 | 49.3 | 0.9 | 0.0 |
| Northpower | 149.1 | 0.0 | 0.0 | 943.8 | 6.5 | 0.0 |
| Orion New Zealand | 3.0 | 0.0 | 0.3 | 31.2 | 5.7 | 3.2 |
| OtagoNet Joint Venture | 116.7 | 0.0 | 3.2 | 119.2 | 0.8 | 16.4 |
| Powerco | 83.2 | 0.4 | 1.1 | 294.3 | 7.6 | 9.1 |
| Scanpower | - | - | - | 169.9 | 0.0 | 9.7 |
| The Lines Company | 131.4 | 0.0 | 0.0 | 523.1 | 1.6 | 0.0 |
| The Power Company | 67.8 | 0.2 | 2.2 | 256.1 | 1.0 | 21.4 |
| Top Energy | 116.8 | 6.3 | 0.0 | 1,233.3 | 434.9 | 0.0 |
| Unison Networks | 362.6 | 0.1 | 0.2 | 1,452.4 | 5.6 | 0.0 |
| Vector | 43.6 | 0.4 | 8.2 | 289.8 | 15.6 | 52.9 |
| Waipa Networks | - | - | - | 94.5 | 2.1 | 304.6 |
| WEL Networks | 6.4 | 0.0 | 0.1 | 118.2 | 7.1 | 17.4 |
| Wellington Electricity Lines | 0.0 | 0.0 | 0.0 | 29.7 | 10.5 | 0.0 |
| Westpower | 122.0 | 0.0 | 38.7 | 89.3 | 0.5 | 2.2 |
| Average | 60.4 | 0.3 | 3.0 | 318.1 | 21.2 | 18.9 |
| Median | 19.9 | 0.0 | 0.0 | 119.2 | 5.0 | 0.3 |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Maximum | 362.6 | 6.3 | 38.7 | 1,452.4 | 434.9 | 304.6 |

SAIFI by main equipment involved

| | SAIFI – Class B (Planned Interruptions on the Network) | | | | | |
|------------------------------|--|------------------------|-----------------------|--------------------|---------------------|--------------------|
| | Subtransmission Lines | Subtransmission Cables | Subtransmission Other | Distribution Lines | Distribution Cables | Distribution Other |
| Alpine Energy | 0.00 | 0.00 | 0.00 | 0.28 | 0.04 | 0.00 |
| Aurora Energy | 0.00 | 0.00 | 0.00 | 0.41 | 0.15 | 0.03 |
| Buller Electricity | 0.09 | 0.00 | 0.00 | 0.59 | 0.08 | 0.00 |
| Centralines | 0.00 | 0.00 | 0.00 | 0.49 | 0.00 | 0.00 |
| Counties Energy | 0.00 | 0.00 | 0.00 | 0.53 | 0.20 | 0.04 |
| EA Networks | 0.02 | 0.00 | 0.00 | 0.43 | 0.01 | 0.00 |
| Electra | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.07 |
| Electricity Invercargill | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.06 |
| Firstlight Network | 0.02 | 0.00 | 0.00 | 0.71 | 0.01 | 0.00 |
| Horizon Energy Distribution | 0.00 | 0.00 | 0.00 | 0.53 | 0.09 | 0.00 |
| MainPower New Zealand | 0.00 | 0.00 | 0.00 | 0.39 | 0.08 | 0.00 |
| Marlborough Lines | 0.00 | 0.00 | 0.00 | 0.24 | 0.13 | 0.10 |
| Nelson Electricity | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.00 |
| Network Tasman | 0.25 | 0.00 | 0.00 | 0.29 | 0.01 | 0.01 |
| Network Waitaki | 0.00 | 0.00 | 0.00 | 0.18 | 0.00 | 0.00 |
| Northpower | 0.01 | 0.00 | 0.00 | 0.38 | 0.04 | 0.00 |
| Orion New Zealand | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.03 |
| OtagoNet Joint Venture | 0.08 | 0.00 | 0.06 | 0.63 | 0.00 | 0.10 |
| Powerco | 0.01 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 |
| Scanpower | - | - | - | 0.17 | 0.00 | 0.10 |
| The Lines Company | 0.04 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 |
| The Power Company | 0.02 | 0.00 | 0.00 | 0.57 | 0.01 | 0.04 |
| Top Energy | 0.00 | 0.00 | 0.00 | 0.61 | 0.06 | 0.00 |
| Unison Networks | 0.12 | 0.00 | 0.01 | 0.38 | 0.14 | 0.00 |
| Vector | 0.00 | 0.00 | 0.00 | 0.09 | 0.01 | 0.16 |
| Waipa Networks | - | - | - | 0.19 | 0.01 | 0.02 |
| WEL Networks | 0.00 | 0.00 | 0.00 | 0.11 | 0.00 | 0.18 |
| Wellington Electricity Lines | 0.00 | 0.00 | 0.00 | 0.05 | 0.01 | 0.00 |
| Westpower | 0.00 | 0.00 | 0.04 | 0.25 | 0.00 | 0.01 |
| Average | 0.02 | 0.00 | 0.00 | 0.33 | 0.04 | 0.03 |
| Median | 0.00 | 0.00 | 0.00 | 0.38 | 0.01 | 0.00 |
| Minimum | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 |
| Maximum | 0.25 | 0.00 | 0.06 | 0.71 | 0.20 | 0.18 |

SAIFI by main equipment involved continued

| | SAIFI – Class C (Unplanned Interruptions on the Network) | | | | | |
|------------------------------|--|------------------------|-----------------------|--------------------|---------------------|--------------------|
| | Subtransmission Lines | Subtransmission Cables | Subtransmission Other | Distribution Lines | Distribution Cables | Distribution Other |
| Alpine Energy | 0.00 | 0.00 | 0.00 | 0.79 | 0.09 | 0.00 |
| Aurora Energy | 0.13 | 0.02 | 0.26 | 1.33 | 0.15 | 0.58 |
| Buller Electricity | 0.61 | 0.00 | 0.00 | 1.89 | 0.00 | 0.00 |
| Centralines | 0.40 | 0.00 | 0.00 | 3.72 | 0.09 | 0.00 |
| Counties Energy | 0.42 | 0.00 | 0.25 | 2.30 | 0.04 | 0.18 |
| EA Networks | 0.14 | 0.00 | 0.00 | 1.10 | 0.08 | 0.00 |
| Electra | 0.25 | 0.00 | 0.00 | 0.45 | 0.10 | 0.47 |
| Electricity Invercargill | 0.00 | 0.00 | 0.00 | 0.08 | 0.30 | 0.11 |
| Firstlight Network | 2.31 | 0.00 | 0.00 | 2.27 | 0.20 | 0.00 |
| Horizon Energy Distribution | 0.26 | 0.00 | 0.00 | 1.79 | 0.07 | 0.00 |
| MainPower New Zealand | 0.25 | 0.00 | 0.00 | 1.21 | 0.21 | 0.00 |
| Marlborough Lines | 0.04 | 0.00 | 0.26 | 1.01 | 0.05 | 0.29 |
| Nelson Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.25 | 0.00 |
| Network Tasman | 0.41 | 0.00 | 0.00 | 0.71 | 0.03 | 0.01 |
| Network Waitaki | 0.48 | 0.00 | 0.00 | 0.68 | 0.03 | 0.00 |
| Northpower | 0.91 | 0.00 | 0.00 | 6.35 | 0.10 | 0.00 |
| Orion New Zealand | 0.02 | 0.00 | 0.01 | 0.30 | 0.12 | 0.05 |
| OtagoNet Joint Venture | 0.76 | 0.00 | 0.14 | 1.05 | 0.01 | 0.17 |
| Powerco | 0.65 | 0.00 | 0.03 | 1.57 | 0.09 | 0.11 |
| Scanpower | - | - | - | 0.40 | 0.00 | 0.11 |
| The Lines Company | 1.48 | 0.00 | 0.00 | 2.49 | 0.01 | 0.00 |
| The Power Company | 0.61 | 0.00 | 0.13 | 2.64 | 0.02 | 0.37 |
| Top Energy | 0.59 | 0.27 | 0.00 | 5.01 | 0.48 | 0.00 |
| Unison Networks | 0.22 | 0.02 | 0.05 | 2.14 | 0.14 | 0.00 |
| Vector | 0.29 | 0.02 | 0.05 | 0.90 | 0.15 | 0.20 |
| Waipa Networks | - | - | - | 0.17 | 0.01 | 1.91 |
| WEL Networks | 0.21 | 0.00 | 0.00 | 0.87 | 0.14 | 0.22 |
| Wellington Electricity Lines | 0.00 | 0.00 | 0.00 | 0.37 | 0.17 | 0.00 |
| Westpower | 0.41 | 0.00 | 0.30 | 0.08 | 0.00 | 0.06 |
| Average | 0.44 | 0.01 | 0.06 | 1.51 | 0.11 | 0.17 |
| Median | 0.33 | 0.00 | 0.00 | 1.05 | 0.09 | 0.01 |
| Minimum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum | 2.31 | 0.27 | 0.30 | 6.35 | 0.48 | 1.91 |

Interruptions and faults

| | Number of Interruptions | | | Number of Faults by Main Equipment Involved | | | | | | |
|------------------------------|---|---|-------------|---|--------|-------|--------------|--------|-------|--------------|
| | Class B (Planned Interruptions on the Network) | Class C (Unplanned Interruptions on the Network) | All Classes | Subtransmission | | | Distribution | | | Total Faults |
| | | | | Lines | Cables | Other | Lines | Cables | Other | |
| | No. | No. | No. | No. | No. | No. | No. | No. | No. | No. |
| Alpine Energy | 567 | 447 | 1,100 | 2 | 1 | 0 | 953 | 126 | 13 | 1,095 |
| Aurora Energy | 1,059 | 853 | 1,919 | 16 | 1 | 12 | 243 | 32 | 199 | 503 |
| Buller Electricity | 86 | 121 | 208 | 8 | 0 | 0 | 111 | 2 | 0 | 121 |
| Centralines | 149 | 197 | 363 | 5 | 0 | 0 | 189 | 3 | 0 | 197 |
| Counties Energy | 422 | 546 | 1,051 | 20 | 0 | 5 | 494 | 6 | 33 | 558 |
| EA Networks | 282 | 300 | 584 | 7 | 0 | 0 | 305 | 7 | 0 | 319 |
| Electra | 151 | 324 | 475 | 1 | 0 | 0 | 68 | 5 | 250 | 324 |
| Electricity Invercargill | 21 | 24 | 48 | 0 | 0 | 0 | 9 | 6 | 9 | 24 |
| Firstlight Network | 296 | 708 | 1,004 | 17 | 0 | 0 | 679 | 12 | 0 | 708 |
| Horizon Energy Distribution | 242 | 255 | 526 | 7 | 0 | 0 | 232 | 16 | 0 | 255 |
| MainPower New Zealand | 625 | 710 | 1,335 | 6 | 0 | 0 | 665 | 30 | 9 | 710 |
| Marlborough Lines | 282 | 442 | 724 | 2 | 0 | 6 | 164 | 10 | 260 | 442 |
| Nelson Electricity | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Network Tasman | 196 | 128 | 330 | 10 | 0 | 0 | 115 | 1 | 2 | 128 |
| Network Waitaki | 207 | 135 | 427 | 4 | 0 | 0 | 89 | 2 | 0 | 95 |
| Northpower | 379 | 932 | 1,311 | 37 | 0 | 0 | 884 | 23 | 0 | 944 |
| Orion New Zealand | 642 | 954 | 1,605 | 2 | 0 | 2 | 637 | 75 | 94 | 810 |
| OtagoNet Joint Venture | 370 | 592 | 969 | 25 | 0 | 3 | 407 | 5 | 152 | 592 |
| Powerco | 1,997 | 3,916 | 6,658 | 194 | 1 | 8 | 4,885 | 125 | 228 | 5,441 |
| Scanpower | 114 | 84 | 198 | - | - | - | 63 | 0 | 21 | 84 |
| The Lines Company | 302 | 1,188 | 1,591 | 39 | 0 | 0 | 1,138 | 11 | 0 | 1,188 |
| The Power Company | 483 | 1,347 | 1,831 | 20 | 1 | 3 | 1,045 | 6 | 272 | 1,347 |
| Top Energy | 262 | 671 | 933 | 12 | 7 | 0 | 612 | 40 | 0 | 671 |
| Unison Networks | 949 | 808 | 1,908 | 27 | 1 | 1 | 694 | 85 | 0 | 808 |
| Vector | 1,471 | 2,333 | 3,814 | 59 | 3 | 7 | 1,612 | 258 | 394 | 2,333 |
| Waipa Networks | 121 | 255 | 376 | - | - | - | 11 | 2 | 242 | 255 |
| WEL Networks | 513 | 833 | 1,349 | 17 | 0 | 4 | 314 | 41 | 457 | 833 |
| Wellington Electricity Lines | 248 | 246 | 496 | 0 | 0 | 0 | 191 | 55 | 0 | 246 |
| Westpower | 161 | 188 | 353 | 12 | 0 | 9 | 150 | 1 | 16 | 188 |
| Average | 435 | 674 | 1,155 | 20 | 1 | 2 | 585 | 34 | 91 | 732 |
| Median | 282 | 447 | 933 | 10 | 0 | 0 | 305 | 10 | 9 | 503 |
| Minimum | 4 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Maximum | 1,997 | 3,916 | 6,658 | 194 | 7 | 12 | 4,885 | 258 | 457 | 5,441 |

Interruptions and faults continued

| | Class C Interruptions Restored Within | | Faults per 100km of Circuit by Main Equipment Involved | | | |
|------------------------------|---------------------------------------|-------|--|-----------|--------------|-----------|
| | ≤3Hrs | >3hrs | Subtransmission | | Distribution | |
| | | | Lines | Cables | Lines | Cables |
| | No. | No. | Per 100km | Per 100km | Per 100km | Per 100km |
| Alpine Energy | 279 | 168 | 0.81 | 3.13 | 32.99 | 27.27 |
| Aurora Energy | 596 | 257 | 3.06 | 1.12 | 10.63 | 2.68 |
| Buller Electricity | 64 | 57 | 7.64 | 0.00 | 29.97 | 9.07 |
| Centralines | 130 | 67 | 5.31 | 0.00 | 13.43 | 6.89 |
| Counties Energy | 289 | 257 | 16.69 | 0.00 | 33.27 | 1.71 |
| EA Networks | 227 | 73 | 1.80 | 0.00 | 15.79 | 2.11 |
| Electra | 219 | 105 | 0.54 | 0.00 | 8.02 | 1.90 |
| Electricity Invercargill | 14 | 10 | 0.00 | 0.00 | 41.04 | 3.75 |
| Firstlight Network | 372 | 336 | 2.64 | 0.00 | 28.54 | 8.51 |
| Horizon Energy Distribution | 180 | 75 | 2.81 | 0.00 | 15.49 | 7.02 |
| MainPower New Zealand | 529 | 181 | 1.55 | 0.00 | 19.39 | 8.02 |
| Marlborough Lines | 255 | 187 | 0.72 | 0.00 | 7.69 | 4.81 |
| Nelson Electricity | 0 | 2 | 0.00 | 0.00 | 0.00 | 2.63 |
| Network Tasman | 96 | 32 | 3.56 | 0.00 | 6.09 | 0.32 |
| Network Waitaki | 95 | 40 | 1.72 | 0.00 | 7.08 | 2.32 |
| Northpower | 674 | 258 | 11.42 | 0.00 | 25.20 | 7.34 |
| Orion New Zealand | 634 | 320 | 0.40 | 0.00 | 20.33 | 2.63 |
| OtagoNet Joint Venture | 429 | 163 | 3.58 | 0.00 | 12.59 | 5.21 |
| Powerco | 1,940 | 1,976 | 12.92 | 0.32 | 33.17 | 5.45 |
| Scanpower | 54 | 30 | - | - | 7.49 | 0.00 |
| The Lines Company | 661 | 527 | 8.92 | 0.00 | 36.79 | 5.45 |
| The Power Company | 943 | 404 | 2.23 | 7.29 | 15.53 | 3.70 |
| Top Energy | 274 | 397 | 3.15 | 30.43 | 23.69 | 17.47 |
| Unison Networks | 443 | 365 | 6.32 | 1.58 | 18.37 | 9.65 |
| Vector | 1,018 | 1,315 | 15.17 | 0.49 | 43.36 | 6.58 |
| Waipa Networks | 179 | 76 | - | - | 0.89 | 1.16 |
| WEL Networks | 493 | 340 | 9.57 | 0.00 | 16.31 | 5.41 |
| Wellington Electricity Lines | 141 | 105 | 0.00 | 0.00 | 32.51 | 4.54 |
| Westpower | 128 | 60 | 1.86 | 0.00 | 5.26 | 0.72 |
| Average | 392 | 282 | 4.61 | 1.64 | 19.34 | 5.67 |
| Median | 274 | 168 | 2.81 | 0.00 | 16.31 | 4.81 |
| Minimum | 0 | 2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Maximum | 1,940 | 1,976 | 16.69 | 30.43 | 43.36 | 27.27 |



15. Ranked data

| | Total Circuit Length km | Number of Connection Points ICPs | Connection Point Density ICPs/km | Energy Delivered to ICPS GWh |
|----|------------------------------|-------------------------------------|-------------------------------------|---------------------------------|
| 1 | Powerco | 29,087 | 1 | Vector |
| 2 | Vector | 19,468 | 2 | Powerco |
| 3 | Orion New Zealand | 11,907 | 3 | Orion New Zealand |
| 4 | Unison Networks | 9,334 | 4 | Wellington Electricity Lines |
| 5 | The Power Company | 8,882 | 5 | Unison Networks |
| 6 | Aurora Energy | 6,256 | 6 | WEL Networks |
| 7 | Northpower | 6,190 | 7 | Aurora Energy |
| 8 | WEL Networks | 5,617 | 8 | Northpower |
| 9 | MainPower New Zealand | 5,198 | 9 | Counties Energy |
| 10 | Wellington Electricity Lines | 4,835 | 10 | Electra |
| 11 | OtagoNet Joint Venture | 4,619 | 11 | MainPower New Zealand |
| 12 | The Lines Company | 4,426 | 12 | Network Tasman |
| 13 | Alpine Energy | 4,374 | 13 | The Power Company |
| 14 | Top Energy | 4,228 | 14 | Top Energy |
| 15 | Firstlight Network | 3,945 | 15 | Alpine Energy |
| 16 | Network Tasman | 3,719 | 16 | Waipa Networks |
| 17 | Counties Energy | 3,545 | 17 | Marlborough Lines |
| 18 | Marlborough Lines | 3,519 | 18 | Firstlight Network |
| 19 | EA Networks | 3,172 | 19 | Horizon Energy Distribution |
| 20 | Horizon Energy Distribution | 2,624 | 20 | The Lines Company |
| 21 | Electra | 2,380 | 21 | EA Networks |
| 22 | Waipa Networks | 2,302 | 22 | OtagoNet Joint Venture |
| 23 | Westpower | 2,193 | 23 | Electricity Invercargill |
| 24 | Network Waitaki | 1,908 | 24 | Westpower |
| 25 | Centralines | 1,864 | 25 | Network Waitaki |
| 26 | Scampower | 1,052 | 26 | Nelson Electricity |
| 27 | Electricity Invercargill | 665 | 27 | Centralines |
| 28 | Buller Electricity | 650 | 28 | Scampower |
| 29 | Nelson Electricity | 296 | 29 | Buller Electricity |
| | | | | 4,815 |
| | | | | 29 |
| | | | | OtagoNet Joint Venture |
| | | | | 4.2 |
| | | | | 29 |
| | | | | Buller Electricity |
| | | | | 49 |

| | Gross Line Charge Revenue | | Gross Line Charge Revenue | | Total Distribution Revenue ¹ | | Total Distribution Revenue ¹ | |
|----|------------------------------|------|---------------------------|------------------------------|---|----|---|------|
| | c/kWh | | \$/ICP | | c/kWh | | \$/ICP | |
| 1 | Buller Electricity | 15.9 | 1 | EA Networks | 2,038 | 1 | Buller Electricity | 15.0 |
| 2 | Centralines | 12.8 | 2 | The Lines Company | 1,761 | 2 | Top Energy | 11.5 |
| 3 | Top Energy | 12.7 | 3 | OtagoNet Joint Venture | 1,688 | 3 | Centralines | 10.3 |
| 4 | The Lines Company | 11.6 | 4 | Alpine Energy | 1,682 | 4 | The Lines Company | 9.8 |
| 5 | Scapower | 11.3 | 5 | Network Waitaki | 1,646 | 5 | Scapower | 8.4 |
| 6 | Firstlight Network | 10.5 | 6 | Buller Electricity | 1,628 | 6 | Firstlight Network | 8.3 |
| 7 | Marlborough Lines | 9.8 | 7 | The Power Company | 1,607 | 7 | Westpower | 8.2 |
| 8 | Westpower | 9.8 | 8 | Westpower | 1,533 | 8 | Marlborough Lines | 8.1 |
| 9 | Electra | 9.7 | 9 | Centralines | 1,494 | 9 | Electra | 7.7 |
| 10 | Counties Energy | 9.5 | 10 | Marlborough Lines | 1,427 | 10 | Counties Energy | 7.7 |
| 11 | Aurora Energy | 9.1 | 11 | Counties Energy | 1,316 | 11 | MainPower New Zealand | 7.1 |
| 12 | MainPower New Zealand | 9.0 | 12 | Aurora Energy | 1,306 | 12 | Aurora Energy | 7.0 |
| 13 | Unison Networks | 8.7 | 13 | Scapower | 1,293 | 13 | Unison Networks | 6.6 |
| 14 | Northpower | 8.3 | 14 | Horizon Energy Distribution | 1,290 | 14 | Network Waitaki | 6.4 |
| 15 | Network Waitaki | 8.1 | 15 | MainPower New Zealand | 1,259 | 15 | EA Networks | 6.0 |
| 16 | Powerco | 7.9 | 16 | Top Energy | 1,253 | 16 | Northpower | 6.0 |
| 17 | WEL Networks | 7.7 | 17 | Unison Networks | 1,233 | 17 | Powerco | 5.7 |
| 18 | EA Networks | 7.4 | 18 | Firstlight Network | 1,158 | 18 | The Power Company | 5.7 |
| 19 | Electricity Invercargill | 7.4 | 19 | Powerco | 1,096 | 19 | WEL Networks | 5.6 |
| 20 | Waipa Networks | 7.3 | 20 | Waipa Networks | 1,055 | 20 | OtagoNet Joint Venture | 5.3 |
| 21 | The Power Company | 7.3 | 21 | Orion New Zealand | 1,055 | 21 | Waipa Networks | 5.3 |
| 22 | Vector | 7.2 | 22 | Electricity Invercargill | 1,050 | 22 | Alpine Energy | 5.1 |
| 23 | OtagoNet Joint Venture | 7.1 | 23 | Northpower | 1,044 | 23 | Vector | 5.1 |
| 24 | Alpine Energy | 6.9 | 24 | WEL Networks | 1,031 | 24 | Electricity Invercargill | 5.1 |
| 25 | Wellington Electricity Lines | 6.9 | 25 | Vector | 1,015 | 25 | Orion New Zealand | 4.9 |
| 26 | Orion New Zealand | 6.8 | 26 | Nelson Electricity | 922 | 26 | Horizon Energy Distribution | 4.6 |
| 27 | Nelson Electricity | 6.3 | 27 | Wellington Electricity Lines | 908 | 27 | Wellington Electricity Lines | 4.4 |
| 28 | Horizon Energy Distribution | 6.1 | 28 | Electra | 900 | 28 | Nelson Electricity | 4.3 |
| 29 | Network Tasman | 5.8 | 29 | Network Tasman | 897 | 29 | Network Tasman | 3.9 |
| | | | | | | | | 576 |

¹ Total distribution revenue is derived as Line Charge Revenue less Recoverable Costs – Transpower Charges, Recoverable Costs – Distributed Generation Allowance, and Recoverable Assets Avoided Transmission Charge.

| Closing RAB | | Regulatory Investment Value | | ROI – Comparable to a Vanilla WACC - Reflecting All Revenue Earned | | ROI – Comparable to a Vanilla WACC - Excluding Revenue Earned from Financial Incentives and Wash-Ups | |
|-------------|------------------------------|-----------------------------|--------|--|-----------|--|------------------------------|
| | \$'000 | | \$'000 | | \$'000 | | % |
| 1 | Vector | 3,891,833 | 1 | Vector | 3,745,365 | 1 | Horizon Energy Distribution |
| 2 | Powerco | 2,589,537 | 2 | Powerco | 2,483,506 | 2 | Wellington Electricity Lines |
| 3 | Orion New Zealand | 1,450,079 | 3 | Orion New Zealand | 1,379,734 | 3 | Buller Electricity |
| 4 | Unison Networks | 805,807 | 4 | Unison Networks | 763,837 | 4 | The Lines Company |
| 5 | Wellington Electricity Lines | 803,430 | 5 | Wellington Electricity Lines | 754,557 | 5 | Nelson Electricity |
| 6 | Aurora Energy | 736,088 | 6 | Aurora Energy | 702,638 | 6 | Unison Networks |
| 7 | WEL Networks | 706,476 | 7 | WEL Networks | 661,574 | 7 | Electricity Invercargill |
| 8 | The Power Company | 491,373 | 8 | The Power Company | 463,931 | 8 | Scanpower |
| 9 | Counties Energy | 427,054 | 9 | Counties Energy | 402,932 | 9 | Centralines |
| 10 | Northpower | 353,169 | 10 | Northpower | 337,594 | 10 | Orion New Zealand |
| 11 | EA Networks | 343,290 | 11 | EA Networks | 325,872 | 11 | Counties Energy |
| 12 | Top Energy | 339,121 | 12 | Top Energy | 320,094 | 12 | EA Networks |
| 13 | MainPower New Zealand | 306,284 | 13 | MainPower New Zealand | 298,752 | 13 | Powerco |
| 14 | Alpine Energy | 293,278 | 14 | Alpine Energy | 274,138 | 14 | Vector |
| 15 | Marlborough Lines | 264,231 | 15 | Marlborough Lines | 259,164 | 15 | Electra |
| 16 | OtagoNet Joint Venture | 263,617 | 16 | The Lines Company | 242,260 | 16 | Aurora Energy |
| 17 | The Lines Company | 263,264 | 17 | OtagoNet Joint Venture | 239,691 | 17 | OtagoNet Joint Venture |
| 18 | Electra | 241,685 | 18 | Electra | 230,082 | 18 | The Power Company |
| 19 | Network Tasman | 209,789 | 19 | Network Tasman | 205,221 | 19 | Alpine Energy |
| 20 | Firstlight Network | 209,446 | 20 | Firstlight Network | 195,041 | 20 | WEL Networks |
| 21 | Waipa Networks | 162,242 | 21 | Horizon Energy Distribution | 161,216 | 21 | Network Tasman |
| 22 | Horizon Energy Distribution | 161,216 | 22 | Waipa Networks | 154,760 | 22 | Firstlight Network |
| 23 | Network Waitaki | 120,992 | 23 | Westpower | 119,993 | 23 | Network Waitaki |
| 24 | Westpower | 116,341 | 24 | Network Waitaki | 115,185 | 24 | Top Energy |
| 25 | Electricity Invercargill | 107,300 | 25 | Electricity Invercargill | 101,519 | 25 | MainPower New Zealand |
| 26 | Centralines | 88,898 | 26 | Centralines | 83,287 | 26 | Westpower |
| 27 | Scanpower | 53,996 | 27 | Scanpower | 51,505 | 27 | Waipa Networks |
| 28 | Nelson Electricity | 49,284 | 28 | Nelson Electricity | 46,838 | 28 | Marlborough Lines |
| 29 | Buller Electricity | 35,266 | 29 | Buller Electricity | 33,629 | 29 | Northpower |

| Expenditure on Assets per Total Circuit Length | | Expenditure on Assets per Connection Point | | Total Expenditure on Assets | |
|--|--------|--|--------|--------------------------------|---------|
| | \$/ICP | | \$/ICP | | \$/000 |
| 1 Vector | 19,060 | 1 Counties Energy | 1,315 | 1 Vector | 371,067 |
| 2 Counties Energy | 17,424 | 2 Centralines | 1,215 | 2 Powerco | 291,659 |
| 3 Aurora Energy | 15,530 | 3 OtagoNet Joint Venture | 1,041 | 3 Orion New Zealand | 120,603 |
| 4 WEL Networks | 13,918 | 4 Aurora Energy | 1,030 | 4 Aurora Energy | 97,155 |
| 5 Wellington Electricity Lines | 11,041 | 5 The Power Company | 864 | 5 Unison Networks | 83,924 |
| 6 Orion New Zealand | 10,129 | 6 Alpine Energy | 823 | 6 WEL Networks | 78,177 |
| 7 Powerco | 10,027 | 7 Powerco | 818 | 7 Wellington Electricity Lines | 53,385 |
| 8 Unison Networks | 8,991 | 8 WEL Networks | 793 | 8 The Power Company | 32,239 |
| 9 Waipa Networks | 8,378 | 9 Unison Networks | 709 | 9 Counties Energy | 61,773 |
| 10 Electricity Invercargill | 7,967 | 10 Network Waitaki | 692 | 10 MainPower New Zealand | 29,457 |
| 11 Alpine Energy | 6,312 | 11 EA Networks | 692 | 11 Northpower | 29,237 |
| 12 Nelson Electricity | 6,144 | 12 Buller Electricity | 670 | 12 Alpine Energy | 27,608 |
| 13 Centralines | 6,006 | 13 MainPower New Zealand | 668 | 13 OtagoNet Joint Venture | 20,151 |
| 14 Electra | 5,711 | 14 Waipa Networks | 662 | 14 Waipa Networks | 19,287 |
| 15 MainPower New Zealand | 5,667 | 15 Vector | 615 | 15 Top Energy | 16,055 |
| 16 Buller Electricity | 4,964 | 16 Firstlight Network | 588 | 16 Firstlight Network | 15,224 |
| 17 Network Waitaki | 4,841 | 17 The Lines Company | 585 | 17 EA Networks | 14,207 |
| 18 Northpower | 4,723 | 18 Orion New Zealand | 553 | 18 The Lines Company | 14,054 |
| 19 EA Networks | 4,479 | 19 Top Energy | 476 | 19 Network Tasman | 13,827 |
| 20 OtagoNet Joint Venture | 4,363 | 20 Northpower | 464 | 20 Electra | 13,591 |
| 21 Firstlight Network | 3,859 | 21 Marlborough Lines | 455 | 21 Marlborough Lines | 12,195 |
| 22 Top Energy | 3,798 | 22 Scanpower | 445 | 22 Centralines | 11,197 |
| 23 Network Tasman | 3,718 | 23 Network Tasman | 327 | 23 Network Waitaki | 9,236 |
| 24 The Power Company | 3,630 | 24 Wellington Electricity Lines | 308 | 24 Horizon Energy Distribution | 7,635 |
| 25 Marlborough Lines | 3,465 | 25 Westpower | 307 | 25 Electricity Invercargill | 5,294 |
| 26 The Lines Company | 3,175 | 26 Horizon Energy Distribution | 303 | 26 Westpower | 4,349 |
| 27 Horizon Energy Distribution | 2,910 | 27 Electricity Invercargill | 301 | 27 Buller Electricity | 3,226 |
| 28 Scanpower | 2,866 | 28 Electra | 293 | 28 Scanpower | 3,016 |
| 29 Westpower | 1,983 | 29 Nelson Electricity | 196 | 29 Nelson Electricity | 1,818 |

| | Operational Expenditure per Total Circuit Length | Operational Expenditure per Connection Point | Total Operating Expenditure |
|----|---|---|------------------------------------|
| | \$/km | \$/ICP | \$/000 |
| 1 | Electricity Invercargill | 8,406 | 1 Buller Electricity |
| 2 | Nelson Electricity | 7,946 | 2 Network Waitaki |
| 3 | Aurora Energy | 7,716 | 3 Westpower |
| 4 | Wellington Electricity Lines | 7,515 | 4 EA Networks |
| 5 | Vector | 7,497 | 5 Marlborough Lines |
| 6 | Electra | 7,190 | 6 Alpine Energy |
| 7 | WEL Networks | 6,388 | 7 Centralines |
| 8 | Buller Electricity | 6,331 | 8 The Lines Company |
| 9 | Counties Energy | 6,903 | 9 Top Energy |
| 10 | Orion New Zealand | 6,022 | 10 Northpower |
| 11 | Northpower | 5,901 | 11 Scanpower |
| 12 | Waipa Networks | 5,874 | 12 Counties Energy |
| 13 | Alpine Energy | 5,691 | 13 OtagoNet Joint Venture |
| 14 | Marlborough Lines | 5,677 | 14 Aurora Energy |
| 15 | Network Waitaki | 5,621 | 15 Firstlight Network |
| 16 | Top Energy | 5,617 | 16 The Power Company |
| 17 | Unison Networks | 5,403 | 17 MainPower New Zealand |
| 18 | Westpower | 5,174 | 18 Waipa Networks |
| 19 | EA Networks | 4,870 | 19 Horizon Energy Distribution |
| 20 | Horizon Energy Distribution | 4,298 | 20 Unison Networks |
| 21 | MainPower New Zealand | 4,016 | 21 Electra |
| 22 | Powerco | 3,827 | 22 WEL Networks |
| 23 | Scanpower | 3,616 | 23 Orion New Zealand |
| 24 | The Lines Company | 3,600 | 24 Electricity Invercargill |
| 25 | Network Tasman | 3,496 | 25 Powerco |
| 26 | Centralines | 3,404 | 26 Network Tasman |
| 27 | Firstlight Network | 3,268 | 27 Nelson Electricity |
| 28 | OtagoNet Joint Venture | 2,172 | 28 Vector |
| 29 | The Power Company | 2,011 | 29 Wellington Electricity Lines |
| | | | 209 |
| | | | 2,351 |

| Network Planned and Unplanned (Class B and Class C) | | | Network Planned and Unplanned (Class B and Class C) | | |
|--|-------|-------|--|-------|-------|
| | SAIDI | SAIFI | | CAIDI | CAIFI |
| 1 Top Energy | 1,918 | 1 | Northpower | 7.79 | 1 |
| 2 Unison Networks | 1,914 | 2 | Top Energy | 7.02 | 2 |
| 3 Firstlight Network | 1,599 | 3 | Firstlight Network | 5.51 | 3 |
| 4 Northpower | 1,215 | 4 | Centralines | 4.70 | 4 |
| 5 The Lines Company | 848 | 5 | The Lines Company | 4.60 | 5 |
| 6 Centralines | 781 | 6 | The Power Company | 4.41 | 6 |
| 7 Counties Energy | 526 | 7 | Buller Electricity | 3.26 | 7 |
| 8 OtagoNet Joint Venture | 508 | 8 | Unison Networks | 3.23 | 8 |
| 9 Buller Electricity | 748 | 9 | Counties Energy | 3.97 | 9 |
| 10 The Power Company | 496 | 10 | Aurora Energy | 3.08 | 10 |
| 11 Powerco | 490 | 11 | OtagoNet Joint Venture | 2.99 | 11 |
| 12 Vector | 485 | 12 | Powerco | 2.87 | 12 |
| 13 Waipa Networks | 464 | 13 | Horizon Energy Distribution | 2.74 | 13 |
| 14 Westpower | 339 | 14 | Waipa Networks | 2.31 | 14 |
| 15 Horizon Energy Distribution | 331 | 15 | MainPower New Zealand | 2.13 | 15 |
| 16 Aurora Energy | 330 | 16 | Marlborough Lines | 2.12 | 16 |
| 17 Marlborough Lines | 316 | 17 | Westpower | 2.06 | 17 |
| 18 MainPower New Zealand | 307 | 18 | Vector | 1.87 | 18 |
| 19 Network Tasman | 275 | 19 | EA Networks | 1.78 | 19 |
| 20 EA Networks | 238 | 20 | WEL Networks | 1.73 | 20 |
| 21 Scampower | 231 | 21 | Network Tasman | 1.73 | 21 |
| 22 WEL Networks | 200 | 22 | Network Waitaki | 1.37 | 22 |
| 23 Alpine Energy | 194 | 23 | Electra | 1.35 | 23 |
| 24 Network Waitaki | 118 | 24 | Alpine Energy | 1.20 | 24 |
| 25 Electra | 102 | 25 | Scampower | 0.78 | 25 |
| 26 Orion New Zealand | 69 | 26 | Wellington Electricity Lines | 0.61 | 26 |
| 27 Electricity Invercargill | 63 | 27 | Orion New Zealand | 0.58 | 27 |
| 28 Nelson Electricity | 62 | 28 | Electricity Invercargill | 0.57 | 28 |
| 29 Wellington Electricity Lines | 53 | 29 | Nelson Electricity | 0.38 | 29 |
| | | | Electra | 76 | |

16. Time series data

Time series data for 2021, 2022 and 2023 is extracted from disclosures made under the IEDD.

Total Circuit Length

| | Total Circuit Length km | | | Number of Connection Points ICPs | | | Electricity Supplied to Customers' Connection Points GWh | | | Maximum Coincident System Demand MW | | |
|------------------------------|-------------------------|--------|--------|----------------------------------|---------|---------|--|-------|-------|-------------------------------------|-------|-------|
| | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 |
| Alpine Energy | 4,349 | 4,326 | 4,374 | 33,700 | 33,269 | 33,539 | 801 | 772 | 812 | 144 | 135 | 142 |
| Aurora Energy | 6,161 | 6,213 | 6,256 | 92,096 | 93,287 | 94,323 | 1,305 | 1,307 | 1,355 | 299 | 309 | 309 |
| Buller Electricity | 646 | 649 | 650 | 4,709 | 4,757 | 4,815 | 50 | 50 | 49 | 11 | 11 | 11 |
| Centralines | 1,828 | 1,836 | 1,864 | 8,889 | 9,054 | 9,212 | 111 | 108 | 108 | 22 | 22 | 22 |
| Counties Energy | 3,427 | 3,500 | 3,545 | 44,514 | 45,785 | 46,963 | 636 | 656 | 651 | 141 | 129 | 134 |
| EA Networks | 3,110 | 3,105 | 3,172 | 20,001 | 20,247 | 20,538 | 627 | 554 | 564 | 181 | 160 | 156 |
| Electra | 2,330 | 2,354 | 2,380 | 45,562 | 45,950 | 46,333 | 421 | 424 | 429 | 104 | 111 | 108 |
| Electricity Invercargill | 664 | 663 | 665 | 17,419 | 17,491 | 17,562 | 250 | 252 | 250 | 62 | 62 | 70 |
| Firstlight Network | 3,945 | 3,942 | 3,945 | 25,783 | 25,775 | 25,872 | 284 | 288 | 286 | 62 | 66 | 65 |
| Horizon Energy Distribution | 2,605 | 2,612 | 2,624 | 25,416 | 25,081 | 25,179 | 545 | 556 | 537 | 101 | 97 | 94 |
| MainPower New Zealand | 5,165 | 5,170 | 5,198 | 42,117 | 43,131 | 44,109 | 626 | 624 | 620 | 128 | 124 | 122 |
| Marlborough Lines | 3,391 | 3,424 | 3,519 | 26,426 | 26,630 | 26,830 | 399 | 387 | 390 | 75 | 75 | 75 |
| Nelson Electricity | 298 | 296 | 296 | 9,271 | 9,285 | 9,297 | 136 | 138 | 135 | 33 | 33 | 34 |
| Network Tasman | 3,674 | 3,688 | 3,719 | 40,597 | 41,622 | 42,224 | 629 | 652 | 654 | 129 | 149 | 159 |
| Network Waitaki | 1,879 | 1,903 | 1,908 | 13,097 | 13,201 | 13,344 | 291 | 238 | 271 | 67 | 61 | 65 |
| Northpower | 6,113 | 6,151 | 6,190 | 61,115 | 62,040 | 63,002 | 947 | 1,042 | 792 | 175 | 182 | 157 |
| Orion New Zealand | 11,622 | 11,740 | 11,907 | 209,584 | 213,669 | 218,227 | 3,249 | 3,281 | 3,377 | 625 | 713 | 655 |
| OrtagoNet Joint Venture | 4,624 | 4,638 | 4,619 | 17,842 | 18,567 | 19,361 | 444 | 450 | 463 | 66 | 68 | 72 |
| Powerco | 28,514 | 28,935 | 29,087 | 348,191 | 352,563 | 356,643 | 4,880 | 4,994 | 4,960 | 944 | 986 | 974 |
| Scampower | 1,038 | 1,049 | 1,052 | 6,697 | 6,731 | 6,771 | 76 | 77 | 77 | 16 | 16 | 16 |
| The Lines Company | 4,359 | 4,440 | 4,426 | 23,841 | 23,999 | 24,016 | 366 | 368 | 365 | 75 | 78 | 75 |
| The Power Company | 8,850 | 8,862 | 8,882 | 36,585 | 36,897 | 37,327 | 794 | 794 | 822 | 163 | 161 | 161 |
| Top Energy | 4,088 | 4,101 | 4,228 | 32,877 | 33,263 | 33,740 | 318 | 330 | 332 | 75 | 77 | 78 |
| Unison Networks | 9,347 | 9,377 | 9,334 | 115,724 | 116,893 | 118,448 | 1,633 | 1,647 | 1,679 | 339 | 354 | 351 |
| Vector | 19,144 | 19,280 | 19,468 | 583,483 | 593,440 | 603,707 | 8,210 | 8,375 | 8,462 | 1,730 | 1,807 | 1,759 |
| Waipa Networks | 2,271 | 2,292 | 2,302 | 27,553 | 28,033 | 29,128 | 398 | 420 | 420 | 83 | 86 | 85 |
| WEL Networks | 5,523 | 5,570 | 5,617 | 95,226 | 96,894 | 98,601 | 1,283 | 1,331 | 1,323 | 280 | 308 | 281 |
| Wellington Electricity Lines | 4,780 | 4,806 | 4,835 | 170,188 | 171,955 | 173,512 | 2,264 | 2,267 | 2,287 | 557 | 579 | 538 |
| Westpower | 2,298 | 2,205 | 2,193 | 13,867 | 14,007 | 14,144 | 226 | 220 | 221 | 47 | 45 | 39 |
| Average | 5,381 | 5,418 | 5,457 | 75,599 | 76,673 | 77,820 | 1,110 | 1,124 | 1,127 | 232 | 242 | 235 |
| Median | 3,945 | 3,942 | 3,945 | 32,877 | 33,263 | 33,539 | 545 | 554 | 537 | 104 | 111 | 108 |
| Minimum | 298 | 296 | 296 | 4,709 | 4,757 | 4,815 | 50 | 50 | 49 | 11 | 11 | 11 |
| Maximum | 28,514 | 28,935 | 29,087 | 583,483 | 593,440 | 603,707 | 8,210 | 8,375 | 8,462 | 1,730 | 1,807 | 1,759 |

| | Total Distribution Transformer Capacity MVA | Load Factor % | | | Loss Ratio % | | | ROI Comparable to a Vanilla WACC Reflecting All Revenue Earned % | | | Year-End ROI Excluding Revenue Earned from Financial Incentives and Wash-Ups Comparable to a Vanilla WACC % | | |
|------------------------------|---|---------------|-------|------|--------------|------|------|--|------|------|---|------|------|
| | | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 |
| Alpine Energy | 618 | 620 | 669 | 66.1 | 68.0 | 67 | 4.3 | 3.6 | 2.3 | 6.0 | 8.7 | 8.4 | 8.4 |
| Aurora Energy | 999 | 1,011 | 1,025 | 53.0 | 51.2 | 53 | 5.8 | 5.4 | 5.5 | 1.8 | 7.3 | 8.7 | 8.7 |
| Buller Electricity | 46 | 47 | 48 | 57.7 | 56.1 | 58 | 6.8 | 7.2 | 8.7 | 10.7 | 10.0 | 8.3 | 10.0 |
| Centralines | 1113 | 1115 | 1118 | 61.9 | 61.2 | 59 | 6.7 | 8.1 | 6.8 | 6.6 | 9.8 | 9.2 | 9.2 |
| Counties Energy | 546 | 769 | 502 | 54.4 | 60.9 | 58 | 5.4 | 4.9 | 4.6 | 4.0 | 9.9 | 9.0 | 9.0 |
| EA Networks | 612 | 605 | 611 | 41.7 | 40.7 | 44 | 4.9 | 2.8 | 6.0 | 4.7 | 9.8 | 8.9 | 8.9 |
| Electra | 339 | 344 | 351 | 50.0 | 47.6 | 48 | 7.3 | 8.0 | 5.9 | 2.8 | 8.8 | 2.7 | 8.8 |
| Electricity Invercargill | 153 | 158 | 158 | 47.4 | 46.8 | 42 | 4.8 | 3.2 | 4.6 | 6.0 | 9.6 | 5.7 | 9.3 |
| Firstlight Network | 272 | 275 | 273 | 57.1 | 54.5 | 55 | 8.5 | 8.8 | 8.3 | 4.2 | 9.7 | 8.3 | 8.3 |
| Horizon Energy Distribution | 345 | 349 | 354 | 64.2 | 68.6 | 68 | 4.1 | 4.4 | 4.6 | 6.8 | 13.4 | 10.6 | 10.6 |
| MainPower New Zealand | 580 | 588 | 599 | 59.6 | 61.2 | 61 | 5.9 | 5.8 | 5.4 | 2.9 | 6.6 | 7.5 | 7.5 |
| Marlborough Lines | 364 | 369 | 380 | 63.9 | 61.5 | 62 | 4.5 | 4.4 | 5.0 | 3.6 | 8.3 | 6.7 | 6.7 |
| Nelson Electricity | 100 | 100 | 100 | 48.8 | 48.9 | 48 | 3.9 | 3.4 | 4.0 | 5.6 | 10.0 | 9.6 | 9.6 |
| Network Tasman | 490 | 505 | 515 | 66.8 | 60.7 | 61 | 5.8 | 5.6 | 5.7 | 3.2 | 8.6 | 3.1 | 8.3 |
| Network Waitaki | 249 | 236 | 244 | 52.7 | 46.8 | 50 | 5.4 | 4.6 | 4.7 | 5.0 | 8.4 | 8.0 | 8.0 |
| Northpower | 582 | 594 | 605 | 65.2 | 68.4 | 61 | 5.2 | 4.5 | 5.4 | 3.3 | 8.8 | 6.4 | 6.4 |
| Orion New Zealand | 2,444 | 2,493 | 2,528 | 61.8 | 54.7 | 61 | 4.0 | 4.0 | 4.1 | 5.1 | 10.3 | 9.1 | 9.1 |
| OtagoNet Joint Venture | 264 | 239 | 245 | 80.2 | 78.7 | 75 | 4.6 | 4.4 | 3.9 | 4.8 | 10.0 | 8.7 | 8.7 |
| Powerco | 3,465 | 3,640 | 3,716 | 62.3 | 61.0 | 61 | 5.3 | 5.2 | 5.1 | 2.9 | 8.4 | 8.9 | 8.9 |
| Scapnower | 75 | 75 | 75 | 57.4 | 58.1 | 58 | 7.3 | 7.3 | 7.3 | 3.7 | 8.3 | 9.2 | 9.2 |
| The Lines Company | 260 | 267 | 271 | 60.0 | 57.4 | 60 | 7.0 | 6.4 | 6.5 | 3.9 | 9.6 | 9.7 | 9.7 |
| The Power Company | 509 | 517 | 501 | 59.1 | 59.6 | 62 | 5.0 | 5.0 | 4.9 | 3.5 | 9.0 | 8.7 | 8.7 |
| Top Energy | 323 | 325 | 298 | 54.2 | 54.4 | 54 | 11.1 | 10.4 | 10.4 | 3.9 | 9.3 | 7.6 | 7.6 |
| Unison Networks | 1,262 | 1,265 | 1,295 | 57.6 | 56.4 | 56 | 4.5 | 5.9 | 2.9 | 5.2 | 10.3 | 9.5 | 9.5 |
| Vector | 5,328 | 5,513 | 5,734 | 56.4 | 55.1 | 57 | 3.9 | 4.0 | 4.0 | 3.7 | 9.5 | 8.9 | 8.9 |
| Waipa Networks | 286 | 291 | 303 | 57.1 | 58.0 | 59 | 4.7 | 3.9 | 4.8 | 3.5 | 9.2 | 6.9 | 6.9 |
| WEL Networks | 994 | 996 | 1,020 | 54.8 | 51.6 | 56 | 4.5 | 4.5 | 4.6 | 5.6 | 9.9 | 8.4 | 8.4 |
| Wellington Electricity Lines | 1,447 | 1,470 | 1,526 | 48.8 | 46.9 | 50 | 4.8 | 4.7 | 3.5 | 4.7 | 11.2 | 10.1 | 10.1 |
| Westpower | 197 | 194 | 178 | 59.8 | 58.6 | 70 | 7.4 | 5.0 | 7.9 | 3.9 | 8.3 | 7.4 | 7.4 |
| Average | 802 | 827 | 836 | 57.9 | 57.0 | 58 | 5.6 | 5.3 | 5.4 | 4.5 | 9.4 | 8.6 | 8.6 |
| Median | 364 | 369 | 380 | 57.6 | 57.4 | 58 | 5.2 | 4.9 | 5.0 | 4.0 | 9.6 | 8.8 | 8.8 |
| Minimum | 46 | 47 | 48 | 41.7 | 40.7 | 42 | 3.9 | 2.8 | 2.3 | 1.8 | 6.6 | 2.7 | 6.4 |
| Maximum | 5,328 | 5,513 | 5,734 | 80.2 | 78.7 | 75 | 11.1 | 10.4 | 10.4 | 8.7 | 13.4 | 10.6 | 10.6 |

Time Series data

| | Gross Line Charge Revenue c/kWh | | | | Regulatory Asset Base \$'000 | | | | Expenditure on Assets per Connection Point \$/ICP | | | |
|------------------------------|------------------------------------|------|------|-----------|---------------------------------|-----------|---------|-------|--|-----------|-----------|-------|
| | 2021 | 2022 | 2023 | 2023 | 2021 | 2022 | 2023 | 2023 | 2021 | 2022 | 2023 | 2023 |
| Alpine Energy | 7.4 | 6.8 | 6.9 | 210,581 | 238,090 | 293,278 | 580 | 724 | 823 | 915 | 1,030 | 1,030 |
| Aurora Energy | 7.5 | 8.1 | 9.1 | 539,722 | 645,301 | 736,088 | 718 | 915 | 823 | 603 | 670 | 670 |
| Buller Electricity | 15.9 | 15.6 | 15.9 | 30,897 | 33,068 | 35,266 | 551 | 1,430 | 1,215 | 1,430 | 1,430 | 1,430 |
| Centralines | 13.5 | 12.8 | 12.8 | 61,954 | 67,163 | 88,898 | 662 | 1,353 | 1,315 | 1,353 | 1,353 | 1,353 |
| Counties Energy | 8.0 | 8.6 | 9.5 | 330,036 | 374,478 | 427,054 | 1,078 | 1,353 | 1,315 | 866 | 781 | 692 |
| EA Networks | 7.6 | 7.5 | 7.4 | 300,961 | 321,934 | 343,290 | 241,685 | 294 | 293 | 294 | 294 | 293 |
| Electra | 8.4 | 9.0 | 9.7 | 209,173 | 226,821 | 241,685 | 313 | 294 | 293 | 313 | 313 | 313 |
| Electricity Invercargill | 7.8 | 7.0 | 7.4 | 91,117 | 99,905 | 107,300 | 248 | 382 | 301 | 382 | 382 | 301 |
| Firstlight Network | 10.1 | 10.8 | 10.5 | 172,870 | 188,035 | 209,446 | 358 | 349 | 588 | 358 | 349 | 588 |
| Horizon Energy Distribution | 5.7 | 6.0 | 6.1 | 141,247 | 150,720 | 161,216 | 312 | 280 | 303 | 312 | 280 | 303 |
| MainPower New Zealand | 8.0 | 8.3 | 9.0 | 257,036 | 282,321 | 306,284 | 627 | 696 | 668 | 627 | 696 | 668 |
| Marlborough Lines | 10.3 | 10.4 | 9.8 | 234,860 | 248,723 | 264,231 | 353 | 389 | 455 | 353 | 389 | 455 |
| Nelson Electricity | 6.6 | 6.3 | 6.3 | 43,164 | 46,261 | 49,284 | 114 | 156 | 196 | 49,284 | 114 | 196 |
| Network Tasman | 5.7 | 5.9 | 5.8 | 177,306 | 191,545 | 209,789 | 236 | 287 | 327 | 236 | 287 | 327 |
| Network Waitaki | 7.0 | 8.3 | 8.1 | 100,426 | 110,927 | 120,992 | 691 | 679 | 692 | 691 | 679 | 692 |
| Northpower | 6.8 | 6.3 | 8.3 | 298,438 | 328,448 | 353,169 | 403 | 483 | 464 | 353,169 | 403 | 464 |
| Orion New Zealand | 7.1 | 7.0 | 6.8 | 1,177,019 | 1,307,972 | 1,450,079 | 389 | 424 | 553 | 1,307,972 | 1,450,079 | 553 |
| OtagoNet Joint Venture | 7.7 | 7.5 | 7.1 | 226,099 | 240,495 | 263,617 | 1,184 | 1,058 | 1,041 | 240,495 | 263,617 | 1,041 |
| Powerco | 7.2 | 7.3 | 7.9 | 2,053,806 | 2,285,796 | 2,589,537 | 694 | 715 | 818 | 2,285,796 | 2,589,537 | 818 |
| Scapnower | 10.8 | 10.8 | 11.3 | 44,798 | 49,990 | 53,996 | 564 | 631 | 445 | 49,990 | 53,996 | 445 |
| The Lines Company | 10.2 | 11.1 | 11.6 | 225,659 | 250,864 | 263,264 | 810 | 664 | 585 | 250,864 | 263,264 | 585 |
| The Power Company | 7.1 | 7.3 | 7.3 | 420,819 | 457,373 | 491,373 | 687 | 672 | 864 | 420,819 | 457,373 | 864 |
| Top Energy | 14.4 | 14.3 | 12.7 | 302,160 | 320,021 | 339,121 | 507 | 415 | 476 | 320,021 | 339,121 | 476 |
| Unison Networks | 8.4 | 8.3 | 8.7 | 672,135 | 740,115 | 805,807 | 457 | 508 | 709 | 740,115 | 805,807 | 709 |
| Vector | 6.8 | 7.2 | 7.2 | 3,385,969 | 3,641,987 | 3,891,833 | 508 | 548 | 615 | 3,385,969 | 3,641,987 | 615 |
| Waipa Networks | 6.7 | 7.1 | 7.3 | 126,979 | 145,410 | 162,242 | 420 | 679 | 662 | 145,410 | 162,242 | 662 |
| WEL Networks | 8.5 | 7.7 | 7.7 | 592,314 | 644,346 | 706,476 | 450 | 566 | 793 | 592,314 | 644,346 | 793 |
| Wellington Electricity Lines | 6.5 | 7.0 | 6.9 | 681,366 | 743,607 | 803,430 | 292 | 294 | 308 | 743,607 | 803,430 | 308 |
| Westpower | 9.1 | 9.5 | 9.8 | 105,683 | 110,847 | 116,341 | 194 | 237 | 307 | 110,847 | 116,341 | 307 |
| Average | 8.5 | 8.6 | 8.8 | 455,676 | 499,744 | 547,737 | 526 | 594 | 628 | 499,744 | 547,737 | 628 |
| Median | 7.7 | 7.7 | 8.1 | 226,099 | 248,723 | 264,231 | 507 | 566 | 615 | 226,099 | 248,723 | 615 |
| Minimum | 5.7 | 5.9 | 5.8 | 30,897 | 33,068 | 35,266 | 114 | 156 | 196 | 30,897 | 33,068 | 196 |
| Maximum | 15.9 | 15.6 | 15.9 | 3,385,969 | 3,641,987 | 3,891,833 | 1,430 | 1,430 | 1,315 | 3,641,987 | 3,891,833 | 1,315 |

| | Operational Expenditure per Connection Point \$/ICP | | | SAIDI – Network Planned and Unplanned (Class B and Class C) | | | SAIFI – Network Planned and Unplanned (Class B and Class C) | | |
|------------------------------|---|------|------|---|-------|---------|---|------|------|
| | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 | 2021 | 2022 | 2023 |
| Alpine Energy | 592 | 669 | 742 | 196.2 | 297.1 | 194.2 | 1.23 | 1.11 | 1.20 |
| Aurora Energy | 502 | 496 | 512 | 248.4 | 321.0 | 330.5 | 2.22 | 2.67 | 3.08 |
| Buller Electricity | 594 | 840 | 854 | 457.4 | 282.3 | 747.7 | 2.41 | 2.09 | 3.26 |
| Centralines | 533 | 585 | 689 | 156.7 | 215.6 | 781.4 | 1.86 | 2.18 | 4.70 |
| Counties Energy | 399 | 415 | 521 | 272.8 | 422.9 | 526.2 | 3.04 | 3.93 | 3.97 |
| EA Networks | 648 | 673 | 752 | 175.2 | 235.7 | 237.7 | 1.46 | 2.01 | 1.78 |
| Electra | 294 | 301 | 369 | 74.3 | 94.7 | 102.0 | 0.97 | 1.45 | 1.35 |
| Electricity Invercargill | 272 | 293 | 318 | 49.7 | 105.2 | 63.5 | 0.76 | 1.15 | 0.57 |
| Firstlight Network | 408 | 470 | 498 | 326.3 | 556.1 | 1,598.6 | 3.43 | 5.79 | 5.51 |
| Horizon Energy Distribution | 410 | 424 | 448 | 253.4 | 386.8 | 330.8 | 2.39 | 2.72 | 2.74 |
| MainPower New Zealand | 437 | 496 | 473 | 321.4 | 381.8 | 306.6 | 2.30 | 2.48 | 2.13 |
| Marlborough Lines | 611 | 674 | 745 | 138.4 | 242.8 | 315.5 | 1.71 | 1.93 | 2.12 |
| Nelson Electricity | 216 | 246 | 253 | 11.1 | 51.1 | 62.5 | 0.03 | 0.56 | 0.38 |
| Network Tasman | 282 | 288 | 308 | 203.5 | 176.2 | 275.1 | 1.18 | 1.31 | 1.73 |
| Network Waitaki | 541 | 655 | 804 | 197.0 | 166.9 | 117.6 | 1.17 | 1.96 | 1.37 |
| Northpower | 448 | 463 | 580 | 266.3 | 375.8 | 1,215.0 | 3.01 | 4.54 | 7.79 |
| Orion New Zealand | 311 | 301 | 329 | 57.4 | 77.9 | 69.3 | 0.60 | 0.68 | 0.58 |
| OtagoNet Joint Venture | 499 | 472 | 518 | 326.1 | 434.5 | 507.6 | 2.66 | 3.16 | 2.99 |
| Powerco | 261 | 293 | 312 | 257.6 | 410.8 | 490.1 | 2.21 | 2.60 | 2.87 |
| Scapnower | 560 | 571 | 562 | 90.9 | 180.2 | 231.2 | 0.66 | 0.91 | 0.78 |
| The Lines Company | 612 | 676 | 664 | 354.8 | 335.4 | 848.3 | 3.18 | 3.35 | 4.60 |
| The Power Company | 458 | 447 | 479 | 314.0 | 366.9 | 496.4 | 3.53 | 3.46 | 4.41 |
| Top Energy | 557 | 588 | 704 | 432.8 | 907.9 | 1,917.6 | 4.93 | 5.44 | 7.02 |
| Unison Networks | 358 | 379 | 426 | 189.5 | 195.5 | 1,914.4 | 1.74 | 2.03 | 3.23 |
| Vector | 218 | 230 | 242 | 164.1 | 221.8 | 484.7 | 1.45 | 1.56 | 1.87 |
| Waipa Networks | 337 | 392 | 464 | 257.3 | 339.8 | 464.4 | 1.73 | 2.37 | 2.31 |
| WEL Networks | 290 | 334 | 364 | 86.3 | 250.6 | 199.6 | 1.03 | 2.15 | 1.73 |
| Wellington Electricity Lines | 196 | 206 | 209 | 36.9 | 40.3 | 53.3 | 0.43 | 0.47 | 0.61 |
| Westpower | 686 | 744 | 802 | 180.3 | 230.8 | 339.3 | 1.61 | 1.98 | 2.06 |
| Average | 432 | 470 | 515 | 210.2 | 286.4 | 525 | 1.89 | 2.35 | 2.7 |
| Median | 437 | 463 | 498 | 197.0 | 250.6 | 331 | 1.73 | 2.09 | 2.1 |
| Minimum | 196 | 206 | 209 | 11.1 | 40.3 | 53 | 0.03 | 0.47 | 0.4 |
| Maximum | 686 | 840 | 854 | 457.4 | 907.9 | 1,948 | 4.93 | 5.79 | 7.8 |

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18. Glossary

| | |
|--------------|---|
| CAIDI | Customer Average Interruption Duration Index |
| CPP | Customised Price-Quality Path |
| DPP | Default Price-Quality Path |
| EDB | Electricity Distribution Business |
| GAAP | Generally Accepted Accounting Practice |
| GWh | Gigawatt Hour |
| GXP | Grid Exit Point |
| ICP | Installation Control Point, denoting an electricity consumer connected to the network |
| ID | Information Disclosure |
| IM | Input Methodology |
| km | Kilometre |
| kVA | Kilovolt Ampere |
| kW | Kilowatt |
| kWh | Kilowatt Hour |
| MVA | Megavolt Ampere |
| MW | Megawatt |
| MWh | Megawatt Hour |
| RAB | Regulatory Asset Base |
| RIV | Regulatory Investment Value |
| ROI | Return on Investment |
| SAIDI | System Average Interruption Duration Index |
| SAIFI | System Average Interruption Frequency Index |
| SCADA | Supervisory Control And Data Acquisition |
| SWER | Single Wire Earth Return |
| WACC | Weighted Average Cost of Capital |

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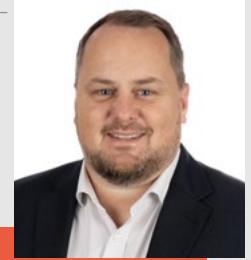
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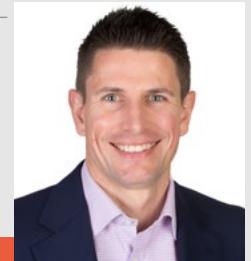
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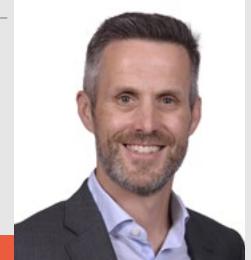
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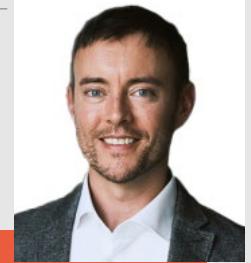


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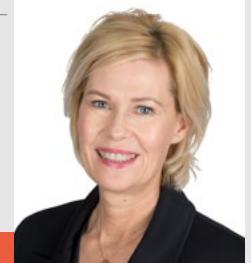
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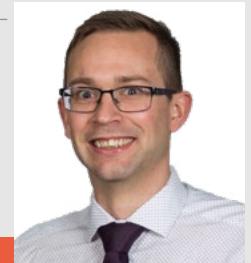
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