

WAIPA NETWORKS LIMITED - LINES BUSINESS

2003 2002 2001 2000

18 PERFORMANCE MEASURES

Disclosure of financial performance measures and efficiency performance measures under regulation 15 of the Electricity (Information Disclosure) Regulations 1999 as amended by the Electricity (Information Disclosure) Amendment Regulations 2000.

1. Financial performance measures

| | | | | |
|--------------------------|-------|-------|--------|-------|
| (a) Return on funds | 2.94% | 3.25% | 8.61% | 7.28% |
| (b) Return on equity | 0.93% | 1.06% | 5.27% | 4.75% |
| (c) Return on investment | 1.90% | 2.02% | 10.44% | 4.58% |

2. Efficiency performance measures:

| | | | | |
|--|-------------|-------------|-------------|-------------|
| (a) Direct line costs per kilometre | \$1,090 | \$821 | \$793 | \$842 |
| Direct Expenditure | \$1,927,280 | \$1,448,878 | \$1,387,316 | \$1,586,594 |
| System Length | 1,768 | 1,764 | 1,749 | 1,885 |
| (b) Indirect line costs per electricity customer | \$54 | \$54 | \$54 | \$52 |
| Indirect Expenditure | \$1,107,857 | \$1,093,645 | \$1,086,717 | \$1,022,052 |
| Total consumers | 20,510 | 20,293 | 20,050 | 19,824 |

Disclosure of energy delivery efficiency performance measures under regulation 21 of the Electricity (Information Disclosure) Regulations 1999 as amended by the Electricity (Information Disclosure) Amendment Regulations 2000.

1. Energy Delivery efficiency performance measures:

| | | | | |
|---|-------------|---------------|---------------|-------------|
| (a) Load factor (=a/b*c*100) | 66.79 | 65.23 * | 62.41 * | 60.33 |
| a = kWh of electricity entering system | 323,000,166 | 320,374,899 * | 302,279,611 * | 295,531,204 |
| b = Maximum demand | 55,206 | 56,064 * | 55,290 | 55,766 |
| c = Total number of hours in year | 8,760 | 8,760 | 8,760 | 8,784 |
| * Restated to adjust for Transpower metering error. | | | | |
| (b) Loss ratio (=a/b*100) | 6.23 | 6.19 * | 6.40 * | 6.69 |
| a = losses in electricity in kWh | 20,113,092 | 19,821,669 * | 19,341,474 * | 19,769,798 |
| b = kWh of electricity entering system | 323,000,166 | 320,374,899 * | 302,279,611 * | 295,531,204 |
| * Restated to adjust for Transpower metering error. | | | | |
| (c) Capacity utilisation (=a/b*100) | 33.51 | 34.97 * | 35.41 | 37.29 |
| a = Maximum demand | 55,206 | 56,064 * | 55,290 | 55,766 |
| b = Transformer Capacity | 164,753 | 160,298 | 156,163 | 149,534 |
| * Restated to adjust for Transpower metering error. | | | | |

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| | 2003 | 2002 | 2001 | 2000 |
|--|---------------------------|-----------------------------|-----------------------------|---------------------------|
| 2. Statistics | | | | |
| (a) System Length | | | | |
| Circuit Kilometres >11kV | 0 | 0 | 0 | 0 |
| Circuit Kilometres 11kV | 1,326 | 1,324 | 1,314 | 1,353 |
| Circuit Kilometres 400V | 442 | 440 | 435 | 532 |
| Total | <u>1,768</u> | <u>1,764</u> | <u>1,749</u> | <u>1,885</u> |
| (b) System Length - Overhead | | | | |
| Circuit Kilometres >11kV | 0 | 0 | 0 | 0 |
| Circuit Kilometres 11kV | 1,291 | 1,289 | 1,283 | 1,309 |
| Circuit Kilometres 400V | 361 | 361 | 360 | 402 |
| Total Overhead | <u>1,652</u> | <u>1,650</u> | <u>1,643</u> | <u>1,711</u> |
| (c) System Length - Underground | | | | |
| Circuit Kilometres >11kV | 0 | 0 | 0 | 0 |
| Circuit Kilometres 11kV | 35 | 35 | 31 | 44 |
| Circuit Kilometres 400V | 81 | 79 | 75 | 130 |
| Total Underground | <u>116</u> | <u>114</u> | <u>106</u> | <u>174</u> |
| (d) Transformer Capacity (In Kilovolt Amperes) | 164,753 | 160,298 | 156,163 | 149,534 |
| (e) Maximum Demand | 55,206 | 56,064 * | 55,290 | 55,766 |
| * Restated to adjust for Transpower metering error. | | | | |
| (f) Total electricity entering the system before losses (in Kilowatt Hours) | 323,000,166 | 320,374,899 * | 302,279,611 * | 295,531,204 |
| * Restated to adjust for Transpower metering error. | | | | |
| (g) Electricity conveyed from the system after losses for each retailer. | | | | |
| Retailer 1 | 201,619,872 | 204,646,933 * | 212,414,520 * | 214,925,671 |
| Retailer 2 | 8,937,740 | 6,999,505 | 4,003,304 | 2,098,842 |
| Retailer 3 | 0 | 0 | 2,361,623 | 1,850,158 |
| Retailer 4 | 75,576,369 | 65,328,222 | 56,868,568 | 55,857,859 |
| Retailer 5 | 334,276 | 242,002 | 148,391 | 18,509 |
| Retailer 6 | 5,605,676 | 1,966,284 | 1,155,591 | 230,985 |
| Retailer 7 | 8,962,294 | 8,252,342 | 2,412,099 | 401,478 |
| Retailer 8 | 1,850,847 | 13,117,942 | 3,574,041 | 377,904 |
| | <u>302,887,074</u> | <u>300,553,230 *</u> | <u>282,938,137 *</u> | <u>275,761,406</u> |
| * Restated to adjust for Transpower metering error. | | | | |
| (h) Total Customers | 20,510 | 20,293 | 20,050 | 19,824 |

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| | 2003 | 2002 | 2001 | 2000 | |
|--|--|------------|------------|------------|------------|
| Disclosure of reliability performance measures under regulation 22 of the Electricity (Information Disclosure) Regulations 1999 as amended by the Electricity (Information Disclosure) Amendment Regulations 2000. | | | | | |
| 1 | Total number of interruptions | | | | |
| | Class A - Planned - by Transpower | 0 | 0 | 0 | 0 |
| | Class B - Planned - by Waipa Networks | 122 | 149 | 140 | 223 |
| | Class C - Unplanned - by Waipa Networks | 111 | 103 | 109 | 107 |
| | Class D - Unplanned - by Transpower | 1 | 1 | 1 | 2 |
| | Class E - Unplanned - by Line Owner genera | 0 | 0 | 0 | 0 |
| | Class F - Unplanned - by other generation | 0 | 0 | 0 | 0 |
| | Class G - Unplanned - by another line owner | 3 | 2 | 6 | 0 |
| | Class H - Planned - by another line owner | 0 | 0 | 0 | 0 |
| | Class I - Any other loss of supply | 0 | 0 | 0 | 0 |
| | Total | 237 | 255 | 256 | 332 |
| 2 | Interruption targets for 2003 / 2004 | | | | |
| | Class B - Planned - by Waipa Networks | 75 | | | |
| | Class C - Unplanned - by Waipa Networks | 103 | | | |
| 3 | Average interruption targets for 2003 / 2004 to 2007 / 2008 years | | | | |
| | Class B - Planned - by Waipa Networks | 66 | | | |
| | Class C - Unplanned - by Waipa Networks | 98 | | | |
| 4 | Proportion of Class C interruptions not restored within: (=a/b*100) | | | | |
| | 3 Hours | 23% | 30% | 18% | 18% |
| | a = number of interruptions restored within 3 | 25 | 31 | 20 | 19 |
| | b = Total number of Class C interruptions | 111 | 103 | 109 | 107 |
| | 24 Hours | 0% | 0% | 0% | 0% |
| | a = number of interruptions restored within 24 | 0 | 0 | 0 | 0 |
| | b = Total number of Class C interruptions | 111 | 103 | 109 | 107 |
| 5 (a) | The total number of faults per 100 circuit kilometres of prescribed voltage electric line | | | | |
| | 11kV | 8.37 | 7.78 | 8.30 | 7.91 |
| (b) | Target for 2003 / 2004 year | | | | |
| | 11kV | 7.77 | | | |
| (c) | Average Target for 2003 / 2004 to 2007 / 2008 years | | | | |
| | 11kV | 7.39 | | | |
| 6 | The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line | | | | |
| | 11kV | 0.00 | 0.00 | 3.23 | 2.27 |
| 7 | The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line | | | | |
| | 11kV | 8.60 | 7.99 | 8.42 | 8.10 |

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| | | 2003 | 2002 | 2001 | 2000 |
|----|--|--------|--------|--------|--------|
| 8 | The SAIDI for the total number of interruption | 247.32 | 374.96 | 280.18 | 300.44 |
| 9 | SAIDI targets for 2003 / 2004 | | | | |
| | Class B - Planned - by Waipa Networks | 38 | | | |
| | Class C - Unplanned - by Waipa Networks | 168 | | | |
| 10 | Average SAIDI target for 2003 / 2004 to 2007 / 2008 years | | | | |
| | Class B - Planned - by Waipa Networks | 34 | | | |
| | Class C - Unplanned - by Waipa Networks | 154 | | | |
| 11 | The SAIDI for the total number of interruptions within each interruption class | | | | |
| | Class A - Planned - by Transpower | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class B - Planned - by Waipa Networks | 73.74 | 150.46 | 93.97 | 94.14 |
| | Class C - Unplanned - by Waipa Networks | 162.40 | 198.80 | 151.68 | 199.49 |
| | Class D - Unplanned - by Transpower | 4.49 | 20.17 | 26.90 | 6.81 |
| | Class E - Unplanned - by Line Owner genera | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class F - Unplanned - by other generation | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class G - Unplanned - by another line owner | 6.69 | 5.53 | 7.63 | 0.00 |
| | Class H - Planned - by another line owner | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class I - Any other loss of supply | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | The SAIFI for the total number of interruption | 4.21 | 3.88 | 4.05 | 3.99 |
| 13 | SAIFI targets for 2003 / 2004 | | | | |
| | Class B - Planned - by Waipa Networks | 0.15 | | | |
| | Class C - Unplanned - by Waipa Networks | 2.54 | | | |
| 14 | Average SAIFI target for 2003 / 2004 to 2007 / 2008 years | | | | |
| | Class B - Planned - by Waipa Networks | 0.14 | | | |
| | Class C - Unplanned - by Waipa Networks | 2.40 | | | |
| 15 | The SAIFI for the total number of interruptions within each interruption class | | | | |
| | Class A - Planned - by Transpower | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class B - Planned - by Waipa Networks | 0.32 | 0.62 | 0.44 | 0.63 |
| | Class C - Unplanned - by Waipa Networks | 3.23 | 2.62 | 2.85 | 2.22 |
| | Class D - Unplanned - by Transpower | 0.56 | 0.58 | 0.58 | 1.14 |
| | Class E - Unplanned - by Line Owner genera | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class F - Unplanned - by other generation | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class G - Unplanned - by another line owner | 0.10 | 0.06 | 0.18 | 0.00 |
| | Class H - Planned - by another line owner | 0.00 | 0.00 | 0.00 | 0.00 |
| | Class I - Any other loss of supply | 0.00 | 0.00 | 0.00 | 0.00 |

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|----|--|------|------|------|------|
| 16 | The CAIDI for the total number of interruption | 59 | 97 | 69 | 75 |
| 17 | CAIDI targets for 2003 / 2004 | | | | |
| | Class B - Planned - by Waipa Networks | 250 | | | |
| | Class C - Unplanned - by Waipa Networks | 66 | | | |
| 18 | Average CAIDI Target for 2003 / 2004 to 2007 / 2008 years | | | | |
| | Class B - Planned - by Waipa Networks | 250 | | | |
| | Class C - Unplanned - by Waipa Networks | 64 | | | |
| 19 | The CAIDI for the total number of interruptions within each interruption class | | | | |
| | Class A - Planned - by Transpower | 0 | 0 | 0 | 0 |
| | Class B - Planned - by Waipa Networks | 232 | 245 | 215 | 150 |
| | Class C - Unplanned - by Waipa Networks | 50 | 76 | 53 | 90 |
| | Class D - Unplanned - by Transpower | 8 | 35 | 46 | 6 |
| | Class E - Unplanned - by Line Owner genera | 0 | 0 | 0 | 0 |
| | Class F - Unplanned - by other generation | 0 | 0 | 0 | 0 |
| | Class G - Unplanned - by another line owner | 65 | 92 | 42 | 0 |
| | Class H - Planned - by another line owner | 0 | 0 | 0 | 0 |
| | Class I - Any other loss of supply | 0 | 0 | 0 | 0 |