

WAIPA NETWORKS LIMITED - LINES BUSINESS

2002 2001 2000 1999

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	3.25%	8.61%	7.28%	5.94%
(b) Return on equity	1.06%	5.27%	4.75%	4.76%
(c) Return on investment	2.02%	10.44%	4.58%	6.84%

2. Efficiency performance measures:

(a) Direct line costs per kilometre	\$821	\$793	\$842	\$648
Direct Expenditure	\$1,448,878	\$1,387,316	\$1,586,594	\$1,212,783
System Length	1,764	1,749	1,885	1,871
(b) Indirect line costs per electricity customer	\$54	\$54	\$52	\$66
Indirect Expenditure	\$1,093,645	\$1,086,717	\$1,022,052	\$1,302,298
Total consumers	20,293	20,050	19,824	19,612

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)	65.08	62.18	60.33	61.77
a = kWh of electricity entering system	316,475,163	301,138,681	295,531,204	289,056,437
b = Maximum demand	55,514	55,290	55,766	53,416
c = Total number of hours in year	8,760	8,760	8,784	8,760
(b) Loss ratio (=a/b*100)	6.16	6.39	6.69	6.15
a = losses in electricity in kWh	19,482,179	19,242,151	19,769,798	17,776,971
b = kWh of electricity entering system	316,475,163	301,138,681	295,531,204	289,056,437
(c) Capacity utilisation (=a/b*100)	34.63	35.41	37.29	36.20
a = Maximum demand	55,514	55,290	55,766	53,416
b = Transformer Capacity	160,298	156,163	149,534	147,549

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2002	2001	2000	1999
2. Statistics				
(a) System Length				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,324	1,314	1,353	1,346
Circuit Kilometres 400V	440	435	532	525
Total	<u>1,764</u>	<u>1,749</u>	<u>1,885</u>	<u>1,871</u>
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,289	1,283	1,309	1,304
Circuit Kilometres 400V	361	360	402	400
Total Overhead	<u>1,650</u>	<u>1,643</u>	<u>1,711</u>	<u>1,704</u>
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	35	31	44	42
Circuit Kilometres 400V	79	75	130	125
Total Underground	<u>114</u>	<u>106</u>	<u>174</u>	<u>167</u>
(d) Transformer Capacity (In Kilovolt Amperes)	160,298	156,163	149,534	147,549
(e) Maximum Demand	55,514	55,290	55,766	53,416
(f) Total electricity entering the system before losses (in Kilowatt Hours)	316,475,163	301,138,681 *	295,531,204 *	289,056,437
* Restated to include losses.				
(g) Electricity conveyed from the system after losses for each retailer.				
Retailer 1	201,086,687	211,372,913 *	214,925,671 *	217,013,904
Retailer 2	6,999,505	4,003,304 *	2,098,842 *	16,773,858
Retailer 3	0	2,361,623 *	1,850,158 *	925,853
Retailer 4	65,328,222	56,868,568 *	55,857,859 *	36,565,851
Retailer 5	242,002	148,391 *	18,509 *	
Retailer 6	1,966,284	1,155,591 *	230,985 *	
Retailer 7	8,252,342	2,412,099 *	401,478 *	
Retailer 8	13,117,942	3,574,041 *	377,904 *	
	<u>296,992,984</u>	<u>281,896,530</u>	<u>275,761,406</u>	<u>271,279,466</u>
* Restated to exclude losses.				
(h) Total Customers	20,293	20,050	19,824	19,612

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2002	2001	2000	1999	
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	149	140	223	217
	Class C - Unplanned - by Waipa Networks	103	109	107	149
	Class D - Unplanned - by Transpower	1	1	2	0
	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	2	6	0	
	Class H - Planned - by another line owner	0	0	0	
	Class I - Any other loss of supply	0	0	0	0
	Total	<u>255</u>	<u>256</u>	<u>332</u>	<u>366</u>
2	Interruption targets for 2002 / 2003				
	Class B - Planned - by Waipa Networks	150			
	Class C - Unplanned - by Waipa Networks	90			
3	Average interruption targets for 2002 / 2003 to 2006 / 2007 years				
	Class B - Planned - by Waipa Networks	150			
	Class C - Unplanned - by Waipa Networks	86			
4	Proportion of Class C interruptions not restored within: (=a/b*100)				
	3 Hours	30%	18%	18%	17%
	a = number of interruptions restored within 3	31	20	19	25
	b = Total number of Class C interruptions	103	109	107	149
	24 Hours	0%	0%	0%	0%
	a = number of interruptions restored within 24	0	0	0	0
	b = Total number of Class C interruptions	103	109	107	149
5 (a)	The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	7.78	8.30	7.91	11.07
(b)	Target for 2002 / 2003 year				
	11kV	6.80			
(c)	Average Target for 2002 / 2003 to 2006 / 2007 years				
	11kV	6.50			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	0.00	3.23	2.27	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	7.99	8.42	8.10	11.43

WAIPA NETWORKS LIMITED - LINES BUSINESS

		2002	2001	2000	1999
8	The SAIDI for the total number of interruptior	374.96	280.18	300.44	242.23
9	SAIDI targets for 2002 / 2003				
	Class B - Planned - by Waipa Networks	95.00			
	Class C - Unplanned - by Waipa Networks	158.00			
10	Average SAIDI target for 2002 / 2003 to 2006 / 2007 years				
	Class B - Planned - by Waipa Networks	95.00			
	Class C - Unplanned - by Waipa Networks	128.60			
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	150.46	93.97	94.14	80.81
	Class C - Unplanned - by Waipa Networks	198.80	151.68	199.49	161.42
	Class D - Unplanned - by Transpower	20.17	26.90	6.81	0.00
	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	5.53	7.63	0.00	
	Class H - Planned - by another line owner	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	3.88	4.05	3.99	3.24
13	SAIFI targets for 2002 / 2003				
	Class B - Planned - by Waipa Networks	0.65			
	Class C - Unplanned - by Waipa Networks	3.15			
14	Average SAIFI target for 2002 / 2003 to 2006 / 2007 years				
	Class B - Planned - by Waipa Networks	0.65			
	Class C - Unplanned - by Waipa Networks	2.95			
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	0.62	0.44	0.63	0.58
	Class C - Unplanned - by Waipa Networks	2.62	2.85	2.22	2.66
	Class D - Unplanned - by Transpower	0.58	0.58	1.14	0.00
	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	0.06	0.18	0.00	
	Class H - Planned - by another line owner	0.00	0.00	0.00	
	Class I - Any other loss of supply	0.00	0.00	0.00	0.00

WAIPA NETWORKS LIMITED - LINES BUSINESS

		2002	2001	2000	1999
16	The CAIDI for the total number of interruptior	97	69	75	75
17	CAIDI targets for 2002 / 2003				
	Class B - Planned - by Waipa Networks	146			
	Class C - Unplanned - by Waipa Networks	50			
18	Average CAIDI Target for 2002 / 2003 to 2006 / 2007 years				
	Class B - Planned - by Waipa Networks	146			
	Class C - Unplanned - by Waipa Networks	43			
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	245	215	150	140
	Class C - Unplanned - by Waipa Networks	76	53	90	61
	Class D - Unplanned - by Transpower	35	46	6	0
	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	92	42	0	
	Class H - Planned - by another line owner	0	0	0	
	Class I - Any other loss of supply	0	0	0	0