

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2004	2003	2002	2001
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	2.93%	2.94%	3.25%	8.61%
(b) Return on equity	1.23%	0.93%	1.06%	5.27%
(c) Return on investment	22.73%	1.90%	2.02%	10.44%
2. Efficiency performance measures:				
(a) Direct line costs per kilometre	\$1,005	\$1,090	\$821	\$793
Direct Expenditure	\$1,911,216	\$1,927,280	\$1,448,878	\$1,387,316
System Length	1,902	1,768	1,764	1,749
(b) Indirect line costs per electricity customer	\$55	\$54	\$54	\$54
Indirect Expenditure	\$1,151,534	\$1,107,857	\$1,093,645	\$1,086,717
Total consumers	20,773	20,510	20,293	20,050

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 ($=a/b*c*100$)	64.98	66.79	65.23 *	62.41 *
a = kWh of electricity entering system	323,352,769	323,000,166	320,374,899 *	302,279,611 *
b = Maximum demand	56,808	55,206	56,064 *	55,290
c = Total number of hours in year	8,760	8,760	8,760	8,760
* Restated to adjust for Transpower metering error.				
(b) Loss ratio ($=a/b*100$)	6.23	6.23	6.19 *	6.40 *
a = losses in electricity in kWh	20,134,172	20,113,092	19,821,669 *	19,341,474 *
b = kWh of electricity entering system	323,352,769	323,000,166	320,374,899 *	302,279,611 *
* Restated to adjust for Transpower metering error.				
(c) Capacity utilisation ($=a/b*100$)	33.43	33.51	34.97 *	35.41
a = Maximum demand	56,808	55,206	56,064 *	55,290
b = Transformer Capacity	169,941	164,753	160,298	156,163
* Restated to adjust for Transpower metering error.				

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2. Statistics				
(a) System Length				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,307	1,326	1,324	1,314
Circuit Kilometres 400V	595	442	440	435
Total	1,902	1,768	1,764	1,749
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,254	1,291	1,289	1,283
Circuit Kilometres 400V	475	361	361	360
Total Overhead	1,729	1,652	1,650	1,643
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	53	35	35	31
Circuit Kilometres 400V	120	81	79	75
Total Underground	173	116	114	106
(d) Transformer Capacity (In Kilovolt Amperes)	169,941	164,753	160,298	156,163
(e) Maximum Demand	56,808	55,206	56,064 *	55,290
* Restated to adjust for Transpower metering error.				
(f) Total electricity entering the system before losses (in Kilowatt Hours)	323,352,769	323,000,166	320,374,899 *	302,279,611 *
* Restated to adjust for Transpower metering error.				
(g) Electricity conveyed from the system after losses for each retailer.				
Retailer 1	181,228,143	201,619,872	204,646,933 *	212,414,520 *
Retailer 2	17,486,319	8,937,740	6,999,505	4,003,304
Retailer 3	0	0	0	2,361,623
Retailer 4	67,541,673	75,576,369	65,328,222	56,868,568
Retailer 5	417,203	334,276	242,002	148,391
Retailer 6	18,651,418	5,605,676	1,966,284	1,155,591
Retailer 7	9,648,851	8,962,294	8,252,342	2,412,099
Retailer 8	8,244,990	1,850,847	13,117,942	3,574,041
	303,218,597	302,887,074	300,553,230 *	282,938,137 *
* Restated to adjust for Transpower metering error.				
(h) Total Customers	20,773	20,510	20,293	20,050

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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	1	0	0	0
	Class B - Planned - by Waipa Networks	50	122	149	140
	Class C - Unplanned - by Waipa Networks	133	111	103	109
	Class D - Unplanned - by Transpower	1	1	1	1
	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	3	2	6
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0
	Total	<u>187</u>	<u>237</u>	<u>255</u>	<u>256</u>
2	Interruption targets for 2004 / 2005				
	Class B - Planned - by Waipa Networks	75			
	Class C - Unplanned - by Waipa Networks	103			
3	Average interruption targets for 2004 / 2005 to 2008 / 2009 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	29%	23%	30%	18%
	a = number of interruptions restored within 3	39	25	31	20
	b = Total number of Class C interruptions	133	111	103	109
	24 Hours	1%	0%	0%	0%
	a = number of interruptions restored within 24	1	0	0	0
	b = Total number of Class C interruptions	133	111	103	109
5	(a) The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	10.18	8.37	7.78	8.30
	(b) Target for 2004 / 2005 year				
	11kV	7.88			
	(c) Average Target for 2004 / 2005 to 2008 / 2009 years				
	11kV	7.50			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	0.00	0.00	0.00	3.23
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	10.61	8.60	7.99	8.42

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8	The SAIDI for the total number of interruption	491.04	247.32	374.96	280.18
9	SAIDI targets for 2004 / 2005				
	Class B - Planned - by Waipa Networks	38			
	Class C - Unplanned - by Waipa Networks	168			
10	Average SAIDI target for 2004 / 2005 to 2008 / 2009 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	204.14	0.00	0.00	0.00
	Class B - Planned - by Waipa Networks	19.02	73.74	150.46	93.97
	Class C - Unplanned - by Waipa Networks	244.74	162.40	198.80	151.68
	Class D - Unplanned - by Transpower	20.57	4.49	20.17	26.90
	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	2.57	6.69	5.53	7.63
	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	5.58	4.21	3.88	4.05
13	SAIFI targets for 2004 / 2005				
	Class B - Planned - by Waipa Networks	0.15			
	Class C - Unplanned - by Waipa Networks	2.54			
14	Average SAIFI target for 2004 / 2005 to 2008 / 2009 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	0.56	0.00	0.00	0.00
	Class B - Planned - by Waipa Networks	0.08	0.32	0.62	0.44
	Class C - Unplanned - by Waipa Networks	4.31	3.23	2.62	2.85
	Class D - Unplanned - by Transpower	0.56	0.56	0.58	0.58
	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	0.07	0.10	0.06	0.18
	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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	2004	2003	2002	2001	
16	The CAIDI for the total number of interruption	88	59	97	69
17	CAIDI targets for 2004 / 2005				
	Class B - Planned - by Waipa Networks	250			
	Class C - Unplanned - by Waipa Networks	66			
18	Average CAIDI Target for 2004 / 2005 to 2008 / 2009 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	366	0	0	0
	Class B - Planned - by Waipa Networks	253	232	245	215
	Class C - Unplanned - by Waipa Networks	57	50	76	53
	Class D - Unplanned - by Transpower	37	8	35	46
	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	35	65	92	42
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0