

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2005	2004	2003	2002
18 PERFORMANCE MEASURES				
Disclosure of financial performance measures and efficiency performance measures.				
1. Financial performance measures				
(a) Return on funds	1.49%	2.93%	2.94%	3.25%
(b) Return on equity	0.08%	1.23%	0.93%	1.06%
(c) Return on investment	0.93%	22.73%	1.90%	2.02%
2. Efficiency performance measures:				
(a) Direct line costs per kilometre	\$1,046	\$1,005	\$1,090	\$821
Direct Expenditure	\$2,108,683	\$1,911,216	\$1,927,280	\$1,448,878
System Length	2,015	1,902	1,768	1,764
(b) Indirect line costs per electricity customer	\$60	\$55	\$54	\$54
Indirect Expenditure	\$1,265,989	\$1,151,534	\$1,107,857	\$1,093,645
Total consumers	21,107	20,773	20,510	20,293

Disclosure of energy delivery efficiency performance measures.

1. Energy Delivery efficiency performance measures:				
(a) Load factor (=a/b*c*100)	63.09	64.98	66.79	65.23 *
a = kWh of electricity entering system	334,710,530	323,352,769	323,000,166	320,374,899 *
b = Maximum demand	60,560	56,808	55,206	56,064 *
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)	6.30	6.23	6.23	6.19 *
a = losses in electricity in kWh	21,077,483	20,134,172	20,113,092	19,821,669 *
b = kWh of electricity entering system	334,710,530	323,352,769	323,000,166	320,374,899 *
* Restated to adjust for Transpower metering error.				
(c) Capacity utilisation (=a/b*100)	34.28	33.43	33.51	34.97 *
a = Maximum demand	60,560	56,808	55,206	56,064 *
b = Transformer Capacity	176,646	169,941	164,753	160,298
* 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	1,336	1,307	1,326	1,324
Circuit Kilometres 400V	679	595	442	440
Total	<u>2,015</u>	<u>1,902</u>	<u>1,768</u>	<u>1,764</u>
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,281	1,254	1,291	1,289
Circuit Kilometres 400V	538	475	361	361
Total Overhead	<u>1,819</u>	<u>1,729</u>	<u>1,652</u>	<u>1,650</u>
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	55	53	35	35
Circuit Kilometres 400V	141	120	81	79
Total Underground	<u>196</u>	<u>173</u>	<u>116</u>	<u>114</u>
(d) Transformer Capacity (In Kilovolt Amperes)	176,646	169,941	164,753	160,298
(e) Maximum Demand	60,560	56,808	55,206	56,064 *
* Restated to adjust for Transpower metering error.				
(f) Total electricity entering the system before losses (in Kilowatt Hours)	334,710,530	323,352,769	323,000,166	320,374,899 *
* Restated to adjust for Transpower metering error.				
(g) Electricity conveyed from the system after losses for each retailer.				
Retailer 1	175,665,524	181,228,143	201,619,872	204,646,933 *
Retailer 2	23,615,904	17,486,319	8,937,740	6,999,505
Retailer 3	61,110,325	67,541,673	75,576,369	65,328,222
Retailer 4	490,550	417,203	334,276	242,002
Retailer 5	30,694,705	18,651,418	5,605,676	1,966,284
Retailer 6	8,723,945	9,648,851	8,962,294	8,252,342
Retailer 7	13,332,094	8,244,990	1,850,847	13,117,942
	<u>313,633,047</u>	<u>303,218,597</u>	<u>302,887,074</u>	<u>300,553,230 *</u>
* Restated to adjust for Transpower metering error.				
(h) Total Customers	21,107	20,773	20,510	20,293

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	2005	2004	2003	2002	
Disclosure of reliability performance measures.					
1	Total number of interruptions				
	Class A - Planned - by Transpower	0	1	0	0
	Class B - Planned - by Waipa Networks	38	50	122	149
	Class C - Unplanned - by Waipa Networks	131	133	111	103
	Class D - Unplanned - by Transpower	4	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	1	2	3	2
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0
	Total	<u>174</u>	<u>187</u>	<u>237</u>	<u>255</u>
2	Interruption targets for 2005 / 2006				
	Class B - Planned - by Waipa Networks	75			
	Class C - Unplanned - by Waipa Networks	103			
3	Average interruption targets for 2005 / 2006 to 2009 / 2010 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	26%	29%	23%	30%
	a = number of interruptions restored within 3	34	39	25	31
	b = Total number of Class C interruptions	131	133	111	103
	24 Hours	0%	1%	0%	0%
	a = number of interruptions restored within 24	0	1	0	0
	b = Total number of Class C interruptions	131	133	111	103
5	(a) The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	9.81	10.18	8.37	7.78
	(b) Target for 2005 / 2006 year				
	11kV	7.71			
	(c) Average Target for 2005 / 2006 to 2009 / 2010 years				
	11kV	7.34			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	5.45	0.00	0.00	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	9.99	10.61	8.60	7.99

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8	The SAIDI for the total number of interruption	278.74	491.04	247.32	374.96
9	SAIDI targets for 2005 / 2006				
	Class B - Planned - by Waipa Networks	38			
	Class C - Unplanned - by Waipa Networks	168			
10	Average SAIDI target for 2005 / 2006 to 2009 / 2010 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	204.14	0.00	0.00
	Class B - Planned - by Waipa Networks	9.48	19.02	73.74	150.46
	Class C - Unplanned - by Waipa Networks	152.68	244.74	162.40	198.80
	Class D - Unplanned - by Transpower	113.08	20.57	4.49	20.17
	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	3.50	2.57	6.69	5.53
	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	4.29	5.58	4.21	3.88
13	SAIFI targets for 2005 / 2006				
	Class B - Planned - by Waipa Networks	0.15			
	Class C - Unplanned - by Waipa Networks	2.54			
14	Average SAIFI target for 2005 / 2006 to 2009 / 2010 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	0.56	0.00	0.00
	Class B - Planned - by Waipa Networks	0.05	0.08	0.32	0.62
	Class C - Unplanned - by Waipa Networks	3.04	4.31	3.23	2.62
	Class D - Unplanned - by Transpower	1.14	0.56	0.56	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	0.06	0.07	0.10	0.06
	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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		2005	2004	2003	2002
16	The CAIDI for the total number of interruption	65	88	59	97
17	CAIDI targets for 2005 / 2006				
	Class B - Planned - by Waipa Networks	250			
	Class C - Unplanned - by Waipa Networks	66			
18	Average CAIDI Target for 2005 / 2006 to 2009 / 2010 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	366	0	0
	Class B - Planned - by Waipa Networks	205	253	232	245
	Class C - Unplanned - by Waipa Networks	50	57	50	76
	Class D - Unplanned - by Transpower	100	37	8	35
	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	63	35	65	92
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0