

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2006	2005	2004	2003
<b>18 PERFORMANCE MEASURES</b>				
Disclosure of financial performance measures and efficiency performance measures.				
1. Financial performance measures				
(a) Return on funds	1.76%	1.49%	2.93%	2.94%
(b) Return on equity	0.23%	0.08%	1.23%	0.93%
(c) Return on investment	1.08%	0.93%	22.73%	1.90%
2. Efficiency performance measures:				
(a) Direct line costs per kilometre	\$1,370	\$1,046	\$1,005	\$1,090
Direct Expenditure	\$2,679,050	\$2,108,683	\$1,911,216	\$1,927,280
System Length	1,955	2,015	1,902	1,768
(b) Indirect line costs per electricity customer	\$65	\$60	\$55	\$54
Indirect Expenditure	\$1,400,027	\$1,265,989	\$1,151,534	\$1,107,857
Total consumers	21,538	21,107	20,773	20,510

Disclosure of energy delivery efficiency performance measures.

1. Energy Delivery efficiency performance measures:				
(a) Load factor (=a/b*c*100)	65.38	63.09	64.98	66.79
a = kWh of electricity entering system	336,382,834	334,710,530	323,352,769	323,000,166
b = Maximum demand	58,732	60,560	56,808	55,206
c = Total number of hours in year	8,760	8,760	8,760	8,760
(b) Loss ratio (=a/b*100)	6.31	6.30	6.23	6.23
a = losses in electricity in kWh	21,223,522	21,077,483	20,134,172	20,113,092
b = kWh of electricity entering system	336,382,834	334,710,530	323,352,769	323,000,166
(c) Capacity utilisation (=a/b*100)	31.84	34.28	33.43	33.51
a = Maximum demand	58,732	60,560	56,808	55,206
b = Transformer Capacity	184,434	176,646	169,941	164,753

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<b>2. Statistics</b>				
<b>(a) System Length</b>				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,294	1,336	1,307	1,326
Circuit Kilometres 400V	661	679	595	442
<b>Total</b>	<b>1,955</b>	<b>2,015</b>	<b>1,902</b>	<b>1,768</b>
<b>(b) System Length - Overhead</b>				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,228	1,281	1,254	1,291
Circuit Kilometres 400V	495	538	475	361
<b>Total Overhead</b>	<b>1,723</b>	<b>1,819</b>	<b>1,729</b>	<b>1,652</b>
<b>(c) System Length - Underground</b>				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	66	55	53	35
Circuit Kilometres 400V	166	141	120	81
<b>Total Underground</b>	<b>232</b>	<b>196</b>	<b>173</b>	<b>116</b>
<b>(d) Transformer Capacity (In Kilovolt Amperes)</b>	<b>184,434</b>	<b>176,646</b>	<b>169,941</b>	<b>164,753</b>
<b>(e) Maximum Demand</b>	<b>58,732</b>	<b>60,560</b>	<b>56,808</b>	<b>55,206</b>
<b>(f) Total electricity entering the system before losses (in Kilowatt Hours)</b>	<b>336,382,834</b>	<b>334,710,530</b>	<b>323,352,769</b>	<b>323,000,166</b>
<b>(g) Electricity conveyed from the system after losses for each retailer.</b>				
Retailer 1	164,253,756	175,665,524	181,228,143	201,619,872
Retailer 2	28,787,574	23,615,904	17,486,319	8,937,740
Retailer 3	60,369,241	61,110,325	67,541,673	75,576,369
Retailer 4	1,474,085	490,550	417,203	334,276
Retailer 5	33,846,877	30,694,705	18,651,418	5,605,676
Retailer 6	8,799,213	8,723,945	9,648,851	8,962,294
Retailer 7	17,587,046	13,332,094	8,244,990	1,850,847
Retailer 8	41,520	0	0	0
	<b>315,159,312</b>	<b>313,633,047</b>	<b>303,218,597</b>	<b>302,887,074</b>
<b>(h) Total Customers</b>	<b>21,538</b>	<b>21,107</b>	<b>20,773</b>	<b>20,510</b>

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Disclosure of reliability performance measures.					
1	Total number of interruptions				
	Class A - Planned - by Transpower	0	0	1	0
	Class B - Planned - by Waipa Networks	51	38	50	122
	Class C - Unplanned - by Waipa Networks	109	131	133	111
	Class D - Unplanned - by Transpower	3	4	1	1
	Class E - Unplanned - by Line Owner generator	0	0	0	0
	Class F - Unplanned - by other generation	0	0	0	0
	Class G - Unplanned - by another line owner	1	1	2	3
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0
	Total	<u>164</u>	174	<u>187</u>	<u>237</u>
2	Interruption targets for 2006 / 2007				
	Class B - Planned - by Waipa Networks	75			
	Class C - Unplanned - by Waipa Networks	103			
3	Average interruption targets for 2006 / 2007 to 2010 / 2011 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	31%	26%	29%	23%
	a = number of interruptions not restored within 3 hours	34	34	39	25
	b = Total number of Class C interruptions	109	131	133	111
	24 Hours	1%	0%	1%	0%
	a = number of interruptions not restored within 24 hours	1	0	1	0
	b = Total number of Class C interruptions	109	131	133	111
5	(a) The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	8.42	9.81	10.18	8.37
	(b) Target for 2006 / 2007 year				
	11kV	7.96			
	(c) Average Target for 2006 / 2007 to 2010 / 2011 years				
	11kV	7.57			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	3.03	5.45	0.00	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	8.71	9.99	10.61	8.60

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8	The SAIDI for the total number of interruptions	176.23	278.74	491.04	247.32
9	SAIDI targets for 2006 / 2007				
	Class B - Planned - by Waipa Networks	38			
	Class C - Unplanned - by Waipa Networks	168			
10	Average SAIDI target for 2006 / 2007 to 2010 / 2011 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	204.14	0.00
	Class B - Planned - by Waipa Networks	16.97	9.48	19.02	73.74
	Class C - Unplanned - by Waipa Networks	154.48	152.68	244.74	162.40
	Class D - Unplanned - by Transpower	4.70	113.08	20.57	4.49
	Class E - Unplanned - by Line Owner generator	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	0.08	3.50	2.57	6.69
	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 interruptions	3.94	4.29	5.58	4.21
13	SAIFI targets for 2006 / 2007				
	Class B - Planned - by Waipa Networks	0.15			
	Class C - Unplanned - by Waipa Networks	2.54			
14	Average SAIFI target for 2006 / 2007 to 2010 / 2011 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	0.56	0.00
	Class B - Planned - by Waipa Networks	0.08	0.05	0.08	0.32
	Class C - Unplanned - by Waipa Networks	2.68	3.04	4.31	3.23
	Class D - Unplanned - by Transpower	1.18	1.14	0.56	0.56
	Class E - Unplanned - by Line Owner generator	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	0.00	0.06	0.07	0.10
	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 interruptions	45	65	88	59
17 CAIDI targets for 2006 / 2007				
Class B - Planned - by Waipa Networks	250			
Class C - Unplanned - by Waipa Networks	66			
18 Average CAIDI Target for 2006 / 2007 to 2010 / 2011 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	366	0
Class B - Planned - by Waipa Networks	222	205	253	232
Class C - Unplanned - by Waipa Networks	58	50	57	50
Class D - Unplanned - by Transpower	4	100	37	8
Class E - Unplanned - by Line Owner generator	0	0	0	0
Class F - Unplanned - by other generation	0	0	0	0
Class G - Unplanned - by another line owner	25	63	35	65
Class H - Planned - by another line owner	0	0	0	0
Class I - Any other loss of supply	0	0	0	0