

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2007	2006	2005	2004
18 PERFORMANCE MEASURES				
Disclosure of financial performance measures and efficiency performance measures.				
1. Financial performance measures				
(a) Return on funds	3.38%	1.76%	1.49%	2.93%
(b) Return on equity	1.91%	0.23%	0.08%	1.23%
(c) Return on investment	2.54%	1.08%	0.93%	22.73%
2. Efficiency performance measures:				
(a) Direct line costs per kilometre	\$1,392	\$1,370	\$1,046	\$1,005
Direct Expenditure	\$2,757,684	\$2,679,050	\$2,108,683	\$1,911,216
System Length	1,981	1,955	2,015	1,902
(b) Indirect line costs per electricity customer	\$62	\$65	\$60	\$55
Indirect Expenditure	\$1,368,659	\$1,400,027	\$1,265,989	\$1,151,534
Total consumers	22,006	21,538	21,107	20,773

Disclosure of energy delivery efficiency performance measures.

1. Energy Delivery efficiency performance measures:				
(a) Load factor (=a/b*c*100)	67.35	65.38	63.09	64.98
a = kWh of electricity entering system	343,030,496	336,382,834	334,710,530	323,352,769
b = Maximum demand	58,142	58,732	60,560	56,808
c = Total number of hours in year	8,760	8,760	8,760	8,760
(b) Loss ratio (=a/b*100)	6.39	6.31	6.30	6.23
a = losses in electricity in kWh	21,908,190	21,223,522	21,077,483	20,134,172
b = kWh of electricity entering system	343,030,496	336,382,834	334,710,530	323,352,769
(c) Capacity utilisation (=a/b*100)	31.13	31.84	34.28	33.43
a = Maximum demand	58,142	58,732	60,560	56,808
b = Transformer Capacity	186,777	184,434	176,646	169,941

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2. Statistics				
(a) System Length				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,304	1,294	1,336	1,307
Circuit Kilometres 400V	677	661	679	595
Total	<u>1,981</u>	<u>1,955</u>	<u>2,015</u>	<u>1,902</u>
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,230	1,228	1,281	1,254
Circuit Kilometres 400V	497	495	538	475
Total Overhead	<u>1,727</u>	<u>1,723</u>	<u>1,819</u>	<u>1,729</u>
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	74	66	55	53
Circuit Kilometres 400V	180	166	141	120
Total Underground	<u>254</u>	<u>232</u>	<u>196</u>	<u>173</u>
(d) Transformer Capacity (In Kilovolt Amperes)	186,777	184,434	176,646	169,941
(e) Maximum Demand	58,142	58,732	60,560	56,808
(f) Total electricity entering the system before losses (in Kilowatt Hours)	343,030,496	336,382,834	334,710,530	323,352,769
(g) Electricity conveyed from the system after losses for each retailer.				
Retailer 1	164,411,994	164,253,756	175,665,524	181,228,143
Retailer 2	34,634,886	28,787,574	23,615,904	17,486,319
Retailer 3	58,165,060	60,369,241	61,110,325	67,541,673
Retailer 4	1,477,476	1,474,085	490,550	417,203
Retailer 5	36,259,420	33,846,877	30,694,705	18,651,418
Retailer 6	9,311,574	8,799,213	8,723,945	9,648,851
Retailer 7	16,483,284	17,587,046	13,332,094	8,244,990
Retailer 8	378,612	41,520	0	0
	<u>321,122,306</u>	<u>315,159,312</u>	<u>313,633,047</u>	<u>303,218,597</u>
(h) Total Customers	22,006	21,538	21,107	20,773

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Disclosure of reliability performance measures.					
1	Total number of interruptions				
	Class A - Planned - by Transpower	1	0	0	1
	Class B - Planned - by Waipa Networks	61	51	38	50
	Class C - Unplanned - by Waipa Networks	127	109	131	133
	Class D - Unplanned - by Transpower	3	3	4	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	2	1	1	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>194</u>	<u>164</u>	<u>174</u>	<u>187</u>
2	Interruption targets for 2007 / 2008				
	Class B - Planned - by Waipa Networks	75			
	Class C - Unplanned - by Waipa Networks	103			
3	Average interruption targets for 2007 / 2008 to 2011 / 2012 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	24%	31%	26%	29%
	a = number of interruptions not restored within 3 hours	30	34	34	39
	b = Total number of Class C interruptions	127	109	131	133
	24 Hours	0%	1%	0%	1%
	a = number of interruptions not restored within 24 hours	0	1	0	1
	b = Total number of Class C interruptions	127	109	131	133
5	(a) The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	9.74	8.42	9.81	10.18
	(b) Target for 2007 / 2008 year				
	11kV	7.90			
	(c) Average Target for 2007 / 2008 to 2011 / 2012 years				
	11kV	7.52			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	2.70	3.03	5.45	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	10.16	8.71	9.99	10.61

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8	The SAIDI for the total number of interruptions	541.43	176.23	278.74	491.04
9	SAIDI targets for 2007 / 2008				
	Class B - Planned - by Waipa Networks	38			
	Class C - Unplanned - by Waipa Networks	168			
10	Average SAIDI target for 2007 / 2008 to 2011 / 2012 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	292.78	0.00	0.00	204.14
	Class B - Planned - by Waipa Networks	36.84	16.97	9.48	19.02
	Class C - Unplanned - by Waipa Networks	132.38	154.48	152.68	244.74
	Class D - Unplanned - by Transpower	77.63	4.70	113.08	20.57
	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	1.80	0.08	3.50	2.57
	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	4.45	3.94	4.29	5.58
13	SAIFI targets for 2007 / 2008				
	Class B - Planned - by Waipa Networks	0.15			
	Class C - Unplanned - by Waipa Networks	2.54			
14	Average SAIFI target for 2007 / 2008 to 2011 / 2012 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	0.55	0.00	0.00	0.56
	Class B - Planned - by Waipa Networks	0.18	0.08	0.05	0.08
	Class C - Unplanned - by Waipa Networks	2.06	2.68	3.04	4.31
	Class D - Unplanned - by Transpower	1.63	1.18	1.14	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	0.03	0.00	0.06	0.07
	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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		2007	2006	2005	2004
16	The CAIDI for the total number of interruptions	122	45	65	88
17	CAIDI targets for 2007 / 2008				
	Class B - Planned - by Waipa Networks	250			
	Class C - Unplanned - by Waipa Networks	66			
18	Average CAIDI Target for 2007 / 2008 to 2011 / 2012 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	534	0	0	366
	Class B - Planned - by Waipa Networks	207	222	205	253
	Class C - Unplanned - by Waipa Networks	64	58	50	57
	Class D - Unplanned - by Transpower	48	4	100	37
	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	61	25	63	35
	Class H - Planned - by another line owner	0	0	0	0
	Class I - Any other loss of supply	0	0	0	0