

WAIPA NETWORKS LIMITED - LINES BUSINESS

	2001	2000	1999	1998
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	8.61%	7.28%	5.94%	6.52%
(b) Return on equity	5.27%	4.75%	4.76%	4.92%
(c) Return on investment	10.44%	4.58%	6.84%	5.02%
2. Efficiency performance measures:				
(a) Direct line costs per kilometre	\$793	\$842	\$648	\$912
Direct Expenditure	\$1,387,316	\$1,586,594	\$1,212,783	\$1,693,385
System Length	1,749	1,885	1,871	1,856
(b) Indirect line costs per electricity customer	\$54	\$52	\$66	\$58
Indirect Expenditure	\$1,086,717	\$1,022,052	\$1,302,298	\$1,150,773
Total consumers	20,050	19,824	19,612	19,872

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)	62.18	60.33	61.77	61.45
a = kWh of electricity entering system	301,138,681	295,531,204	289,056,437	289,860,017
b = Maximum demand	55,290	55,766	53,416	53,850
c = Total number of hours in year	8,760	8,784	8,760	8,760
(b) Loss ratio (=a/b*100)	6.39	6.69	6.15	6.31
a = losses in electricity in kWh	19,242,151	19,769,798	17,776,971	18,290,167
b = kWh of electricity entering system	301,138,681	295,531,204	289,056,437	289,860,017
(c) Capacity utilisation (=a/b*100)	35.41	37.29	36.20	33.16
a = Maximum demand	55,290	55,766	53,416	53,850
b = Transformer Capacity	156,163	149,534	147,549	162,374

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2. Statistics				
(a) System Length				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,314	1,353	1,346	1,334
Circuit Kilometres 400V	435	532	525	522
Total	<u>1,749</u>	<u>1,885</u>	<u>1,871</u>	<u>1,856</u>
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,283	1,309	1,304	1,293
Circuit Kilometres 400V	360	402	400	403
Total Overhead	<u>1,643</u>	<u>1,711</u>	<u>1,704</u>	<u>1,696</u>
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	31	44	42	41
Circuit Kilometres 400V	75	130	125	119
Total Underground	<u>106</u>	<u>174</u>	<u>167</u>	<u>160</u>
(d) Transformer Capacity (In Kilovolt Amperes)	156,163	149,534	147,549	162,374
(e) Maximum Demand	55,290	55,766	53,416	53,850
(f) Total electricity supplied from the system after losses (in Kilowatt Hours)	281,896,530	275,761,406	271,279,466	271,569,850
(g) Electricity conveyed for each retailer including losses.				
Retailer 1	228,261,973	233,114,409	233,540,531 *	247,753,838 *
Retailer 2	4,331,575	2,270,947	17,224,124 *	42,106,179 *
Retailer 3	2,555,276	2,001,871	1,001,773 *	
Retailer 4	58,108,178	57,031,511	37,290,009 *	
Retailer 5	154,327	19,249		
Retailer 6	1,250,349	249,926		
Retailer 7	2,609,891	434,399		
Retailer 8	3,867,112	408,892		
	<u>301,138,681</u>	<u>295,531,204</u>	<u>289,056,437</u>	<u>289,860,017</u>
* Restated to include losses.				
(h) Total Customers	20,050	19,824	19,612	19,872

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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	0	0	0	0
	Class B - Planned - by Waipa Networks	140	223	217	249
	Class C - Unplanned - by Waipa Networks	109	107	149	117
	Class D - Unplanned - by Transpower	1	2	0	1
	Class E - Unplanned - by Line Owner generated	0	0	0	0
	Class F - Unplanned - by other generation	0	0	0	0
	Class G - Unplanned - by another line owner	6	0		
	Class H - Planned - by another line owner	0	0		
	Class I - Any other loss of supply	0	0	0	0
	Total	<u>256</u>	<u>332</u>	<u>366</u>	<u>367</u>
2	Interruption targets for 2001 / 2002				
	Class B - Planned - by Waipa Networks	150			
	Class C - Unplanned - by Waipa Networks	90			
3	Average interruption targets for 2001 / 2002 to 2005 / 2006 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	18%	18%	17%	
	a = number of interruptions restored within 3	20	19	25	
	b = Total number of Class C interruptions	109	107	149	
	24 Hours	0%	0%	0%	
	a = number of interruptions restored within 2	0	0	0	
	b = Total number of Class C interruptions	109	107	149	
5	(a) The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	8.30	7.91	11.07	8.77
	(b) Target for 2001 / 2002 year				
	11kV	6.85			
	(c) Average Target for 2001 / 2002 to 2005 / 2006 years				
	11kV	6.54			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	3.23	2.27	0.00	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	8.42	8.10	11.43	9.05

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8	The SAIDI for the total number of interruptior	280.18	300.44	242.23	255.21
9	SAIDI targets for 2001 / 2002				
	Class B - Planned - by Waipa Networks	95.00			
	Class C - Unplanned - by Waipa Networks	174.00			
10	Average SAIDI target for 2001 / 2002 to 2005 / 2006 years				
	Class B - Planned - by Waipa Networks	95.00			
	Class C - Unplanned - by Waipa Networks	143.20			
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	93.97	94.14	80.81	99.97
	Class C - Unplanned - by Waipa Networks	151.68	199.49	161.42	153.62
	Class D - Unplanned - by Transpower	26.90	6.81	0.00	1.62
	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	7.63	0.00		
	Class H - Planned - by another line owner	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 interruptior	4.05	3.99	3.24	3.39
13	SAIFI targets for 2001 / 2002				
	Class B - Planned - by Waipa Networks	0.45			
	Class C - Unplanned - by Waipa Networks	3.45			
14	Average SAIFI target for 2001 / 2002 to 2005 / 2006 years				
	Class B - Planned - by Waipa Networks	0.45			
	Class C - Unplanned - by Waipa Networks	3.19			
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	0.44	0.63	0.58	0.61
	Class C - Unplanned - by Waipa Networks	2.85	2.22	2.66	2.24
	Class D - Unplanned - by Transpower	0.58	1.14	0.00	0.54
	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	0.18	0.00		
	Class H - Planned - by another line owner	0.00	0.00		
	Class I - Any other loss of supply	0.00	0.00	0.00	0.09

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16	The CAIDI for the total number of interruptions	69	75	75	75
17	CAIDI targets for 2001 / 2002				
	Class B - Planned - by Waipa Networks	211			
	Class C - Unplanned - by Waipa Networks	50			
18	Average CAIDI Target for 2001 / 2002 to 2005 / 2006 years				
	Class B - Planned - by Waipa Networks	211			
	Class C - Unplanned - by Waipa Networks	45			
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	215	150	140	163
	Class C - Unplanned - by Waipa Networks	53	90	61	69
	Class D - Unplanned - by Transpower	46	6	0	3
	Class E - Unplanned - by Line Owner generation	0	0	0	0
	Class F - Unplanned - by other generation	0	0	0	0
	Class G - Unplanned - by another line owner	42	0		
	Class H - Planned - by another line owner	0	0		
	Class I - Any other loss of supply	0	0	0	0