

WAIPA NETWORKS LIMITED - LINES BUSINESS

2000 1999 1998 1997

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	7.28%	5.94%	6.52%	4.31%
(b) Return on equity	4.75%	4.76%	4.92%	2.93%
(c) Return on investment	4.58%	6.84%	5.02%	2.74%

2. Efficiency performance measures:

(a) Direct line costs per kilometre	\$842	\$648	\$912	\$1,000
Direct Expenditure	\$1,586,594	\$1,212,783	\$1,693,385	\$1,851,501
System Length	1,885	1,871	1,856	1,851
(b) Indirect line costs per electricity customer	\$52	\$66	\$58	\$60
Indirect Expenditure	\$1,022,052	\$1,302,298	\$1,150,773	\$1,185,438
Total consumers	19,824	19,612	19,872	19,706

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)	60.33	61.77	61.45	61.00
a = kWh of electricity entering system	295,531,204	289,056,437	289,860,017	284,111,957
b = Maximum demand	55,766	53,416	53,850	53,167
c = Total number of hours in year	8,784	8,760	8,760	8,760
(b) Loss ratio (=a/b*100)	6.69	6.15	6.31	6.41
a = losses in electricity in kWh	19,769,798	17,776,971	18,290,167	18,211,576
b = kWh of electricity entering system	295,531,204	289,056,437	289,860,017	284,111,957
(c) Capacity utilisation (=a/b*100)	37.29	36.20	33.16	33.00
a = Maximum demand	55,766	53,416	53,850	53,167
b = Transformer Capacity	149,534	147,549	162,374	161,093

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	2000	1999	1998	1997
2. Statistics				
(a) System Length				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,353	1,346	1,334	1,330
Circuit Kilometres 400V	532	525	522	521
Total	<u>1,885</u>	<u>1,871</u>	<u>1,856</u>	<u>1,851</u>
(b) System Length - Overhead				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	1,309	1,304	1,293	1,291
Circuit Kilometres 400V	402	400	403	402
Total Overhead	<u>1,711</u>	<u>1,704</u>	<u>1,696</u>	<u>1,693</u>
(c) System Length - Underground				
Circuit Kilometres >11kV	0	0	0	0
Circuit Kilometres 11kV	44	42	41	39
Circuit Kilometres 400V	130	125	119	119
Total Underground	<u>174</u>	<u>167</u>	<u>160</u>	<u>158</u>
(d) Transformer Capacity (In Kilovolt Amperes)	149,534	147,549	162,374	161,093
(e) Maximum Demand	55,766	53,416	53,850	53,167
(f) Total electricity supplied from the system after losses (in Kilowatt Hours)	275,761,406	271,279,466	271,569,850	265,900,381
(g) Electricity conveyed for each retailer including losses.				
Retailer 1	233,114,409	233,540,531 *	247,753,838 *	257,279,157
Retailer 2	2,270,947	17,224,124 *	42,106,179 *	26,832,800
Retailer 3	2,001,871	1,001,773 *		
Retailer 4	57,031,511	37,290,009 *		
Retailer 5	19,249			
Retailer 6	249,926			
Retailer 7	434,399			
Retailer 8	408,892			
	<u>295,531,204</u>	<u>289,056,437</u>	<u>289,860,017</u>	<u>284,111,957</u>
* Restated to include losses.				
(h) Total Customers	19,824	19,612	19,872	19,706

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	2000	1999	1998	1997	
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 Line Owners	223	217	249	234
	Class C - Unplanned - by Line Owners	107	149	117	156
	Class D - Unplanned - by Transpower	2	0	1	2
	Class E - Unplanned - by ECNZ	0	0	0	0
	Class F - Unplanned - by other generation	0	0	0	0
	Class G - Any other loss of supply	0	0	0	0
	Total	<u>332</u>	<u>366</u>	<u>367</u>	<u>392</u>
2	Interruption targets for 2000 / 2001				
	Class B - Planned - by Line Owners	200			
	Class C - Unplanned - by Line Owners	100			
3	Average interruption targets for 2000 / 2001 to 2004 / 2005 years				
	Class B - Planned - by Line Owners	160			
	Class C - Unplanned - by Line Owners	86			
4	Porportion of Class C interruptions not restored within: (=a/b*100)				
	3 Hours	18%	17%		
	a = number of interruptions restored within 3	19	25		
	b = Total number of Class C interruptions	107	149		
	24 Hours	0%	0%		
	a = number of interruptions restored within 24	0	0		
	b = Total number of Class C interruptions	107	149		
5 (a)	The total number of faults per 100 circuit kilometres of prescribed voltage electric line				
	11kV	7.91	11.07	8.77	11.73
(b)	Target for 2000 / 2001 year				
	11kV	7.39			
(c)	Average Target for 2000 / 2001 to 2004 / 2005 years				
	11kV	6.36			
6	The total number of faults per 100 circuit kilometres of underground prescribed voltage electric line				
	11kV	2.27	0.00	0.00	0.00
7	The total number of faults per 100 circuit kilometres of overhead prescribed voltage electric line				
	11kV	8.10	11.43	9.05	12.08
8	The SAIDI for the total number of interruptior				
		300.44	242.23	255.21	353.09
9	SAIDI targets for 2000 / 2001				
	Class B - Planned - by Line Owners	64.00			
	Class C - Unplanned - by Line Owners	132.00			

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	2000	1999	1998	1997
10	Average SAIDI target for 2000 / 2001 to 2004 / 2005 years			
	Class B - Planned - by Line Owners	53.40		
	Class C - Unplanned - by Line Owners	100.20		
11	The SAIDI for the total number of interruptions within each interruption class			
	Class A - Planned - by Transpower	0.00	0.00	0.00
	Class B - Planned - by Line Owners	94.14	80.81	99.97
	Class C - Unplanned - by Line Owners	199.49	161.42	153.62
	Class D - Unplanned - by Transpower	6.81	0.00	1.62
	Class E - Unplanned - by ECNZ	0.00	0.00	0.00
	Class F - Unplanned - by other generation	0.00	0.00	0.00
	Class G - Any other loss of supply	0.00	0.00	0.00
12	The SAIFI for the total number of interruption	3.99	3.24	3.39
13	SAIFI targets for 2000 / 2001			
	Class B - Planned - by Line Owners	0.46		
	Class C - Unplanned - by Line Owners	2.30		
14	Average SAIFI target for 2000 / 2001 to 2004 / 2005 years			
	Class B - Planned - by Line Owners	0.38		
	Class C - Unplanned - by Line Owners	1.90		
15	The SAIFI for the total number of interruptions within each interruption class			
	Class A - Planned - by Transpower	0.00	0.00	0.00
	Class B - Planned - by Line Owners	0.63	0.58	0.61
	Class C - Unplanned - by Line Owners	2.22	2.66	2.24
	Class D - Unplanned - by Transpower	1.14	0.00	0.54
	Class E - Unplanned - by ECNZ	0.00	0.00	0.00
	Class F - Unplanned - by other generation	0.00	0.00	0.00
	Class G - Any other loss of supply	0.00	0.00	0.09
16	The CAIDI for the total number of interruptior	75	75	75
17	CAIDI targets for 2000 / 2001			
	Class B - Planned - by Line Owners	139		
	Class C - Unplanned - by Line Owners	57		
18	Average CAIDI Target for 2000 / 2001 to 2004 / 2005 years			
	Class B - Planned - by Line Owners	140		
	Class C - Unplanned - by Line Owners	52		
19	The CAIDI for the total number of interruptions within each interruption class			
	Class A - Planned - by Transpower	0	0	0
	Class B - Planned - by Line Owners	150	140	163
	Class C - Unplanned - by Line Owners	90	61	69
	Class D - Unplanned - by Transpower	6	0	3
	Class E - Unplanned - by ECNZ	0	0	0
	Class F - Unplanned - by other generation	0	0	0
	Class G - Any other loss of supply	0	0	0