

NELSON ELECTRICITY LIMITED
PERFORMANCE MEASURES
PREPARED IN ACCORDANCE WITH THE ELECTRICITY (INFORMATION DISCLOSURE) REQUIREMENTS 2004

	2004	2003	2002	2001	2000
1 Financial Performance Measures					
note The Electricity conveyed through the system on behalf of retailers includes an estimate of usage due to lack of reliable data from retailers, the statistics including loss factors relating to this information should be read with caution.					
(a) Return on Funds	16.6%	20.7%	24.1%	17.4%	16.1%
(b) Return on Equity	11.7%	13.0%	14.7%	10.6%	8.8%
(c) Return on Investment	57.0%	12.8%	14.0%	8.8%	7.4%
2 Efficiency Performance Measures					
(a) Direct Line Costs per Kilometre	\$2,536	\$2,864	\$1,884	\$2,261	\$1,909
(b) Indirect line costs per Consumer	\$92	\$84	\$118	\$149	\$152
1 Energy Delivery Efficiency Performance Measures					
(a) Load Factor	56.1%	57.7%	55.0%	58.7%	59.4%
(b) Loss Ratio	5.8%	5.8%	2.5%	4.9%	4.6%
(c) Capacity Utilisation	36.8%	37.6%	39.0%	37.6%	39.1%
2 Statistics					
(a) System Length Break Down in Kilometres					
33kV	11	17	17	21	21
11kV	78	78	78	77	74
LV	151	147	146	145	144
Total	240	242	241	243	239
(b) Circuit Length of Overhead System in Kilometres					
33kV	1	7	8	11	11
11kV	8	9	9	9	8
LV	28	25	25	25	25
Total	37	41	42	45	44
(c) Circuit Length of Underground System in Kilometres					
33kV	10	10	10	10	10
11kV	69	69	68	68	66
LV	123	122	121	120	119
Total	202	201	199	198	195
(d) Transformer Capacity in kVA	81,005	79,100	78,190	76,540	72,270
(e) Maximum demand in kW	29,800	29,767	30,470	28,800	28,225
(f) Total Electricity supplied from the System in kWh	146,420,659	150,532,170	146,924,719	148,097,417	147,146,156
(g) Total Electricity Conveyed through the System on behalf of each generator and retailer in kWh					
Retailer A	98,433,829	110,038,068	116,967,198	126,945,263	109,650,064
Retailer B	21,734,016	20,725,835	17,346,953	7,793,122	4,363,289
Retailer C	15,066,831	8,381,913	3,294,004	4,463,743	1,750,965
Retailer D	1,961,175	1,969,082	2,723,393	1,390,788	416,420
Retailer E	474,878	1,219,138	3,049,344	298,065	24,197,830
(h) Total Consumers	8,735	8,614	8,575	8,579	8,476

Reliability Performance Measures

1	Number of interruption by class	2004	2003	2002	2001	2000
	Class Description		number of interruptions			
	A Transpower Planned		-	-	-	-
	B Nelson Electricity Planned	10	22	9	9	22
	C Nelson Electricity Unplanned	7	13	7	6	8
	D Transpower Unplanned	-	-	-	-	-
	E ECNZ Unplanned	-	-	-	-	-
	F Other Generation	-	-	-	-	-
	G Unplanned Other Line Owner	-	-	-	-	-
	H Planned Other Line Owner	-	-	-	-	-
	I Other	-	-	-	-	-
	Total	17	35	16	15	30
2/3	Interruption targets for the average of the next five years				2005-2009	2005
	Class Description					
(a)	B Nelson Electricity Planned				25	14
(b)	C Nelson Electricity Unplanned				8	8
4	Percentage of Class C interruptions not restored within-	2004	2003	2002	2001	2000
			% of total class interruptions			
(a)	Three hours	5.9%	7.7%	14.0%	0.0%	12.5%
(b)	24 hours	0.0%	0.0%	0.0%	0.0%	0.0%
5	Faults (Class C) per 100 kilometres					
(a)	Total number of faults per 100 km					
	Voltage	2004	2003	2002	2001	2000
	33 kV	-	11.5	-	4.8	9.7
	11kV	9.1	14.0	3.9	2.6	8.1
	Total	8.0	13.6	3.9	3.1	8.4
(b/c)	Average total number of faults per 100 km for the next five years				2005-2009	2004
	Voltage				average total number of faults per 100 kms each year over this period	
	33 kV				3.8	3.8
	11kV				3.8	3.8
	Total				3.8	3.8
6	Faults (Class C) per 100 kilometres underground					
	Voltage	2004	2003	2002	2001	2000
	33 kV	-	-	-	-	10.3
	11kV	7.2	8.7	2.9	1.5	6.1
	Total	6.3	7.6	2.9	1.3	6.6
7	Faults (Class C) per 100 kilometres overhead					
	Voltage	2004	2003	2002	2001	2000
	33 kV	-	26.8	-	9.1	9.1
	11kV	25.0	54.3	10.9	11.1	24.5
	Total	22.2	42.0	10.9	10.0	15.6
8	SAIDI	2004	2003	2002	2001	2000
	Customer Minutes	53.2	99.6	38.7	41.0	77.0
9/10	SAIDI target				2005 to 2009	2004
					average SAIDI for each year over this period	
(a)	Class B				10.0	10.0
(b)	Class C				20.0	20.0

11	SAIFI per interruption class	2004	2003	2002	2001	2000
	Class Description		customer minutes			
	A Transpower Planned	-	-	-	-	-
	B Nelson Electricity Planned	6.6	27.4	0.6	13.0	16.0
	C Nelson Electricity Unplanned	46.6	72.1	38.1	28.0	60.0
	D Transpower Unplanned	-	-	-	-	-
	E ECNZ Unplanned	-	-	-	-	-
	F Other Generation	-	-	-	-	-
	G Unplanned Other Line Owner	-	-	-	-	-
	H Planned Other Line Owner	-	-	-	-	-
	I Other	-	-	-	-	-
12	SAIFI	2004	2003	2002	2001	2000
	Total Interruptions	0.8	1.4	1.0	1.8	1.3
13/14	SAIFI target				2005-2009	2004
					average SAIFI for each year over this period	
(a)	Class B Planned				0.3	0.3
(b)	Class C Unplanned				0.6	0.6
15	SAIFI per interruption class	2004	2003	2002	2001	2000
	Class Description		customer minutes			
	A Transpower Planned	-	-	-	-	-
	B Nelson Electricity Planned	0.3	0.0	0.1	0.1	0.2
	C Nelson Electricity Unplanned	0.5	1.0	1.7	1.2	0.7
	D Transpower Unplanned	-	-	-	-	0.4
	E ECNZ Unplanned	-	-	-	-	-
	F Other Generation	-	-	-	-	-
	G Unplanned Other Line Owner	-	-	-	-	-
	H Planned Other Line Owner	-	-	-	-	0
	I Other	-	-	-	-	0
16	CAIDI	2004	2003	2002	2001	2000
	Customer minutes	70.7	69.6	40.5	23.0	58.7
17	CAIDI target				2005-2009	2004
					average CAIDI for each year over this period	
(a)	Class B Planned				50.0	50.0
(b)	Class C Unplanned				41.7	41.7
19	CAIDI per interruption class	2004	2003	2002	2001	2000
	Class Description		customer minutes			
	A Transpower Planned	-	-	-	-	-
	B Nelson Electricity Planned	23.4	171.1	134.5	217.5	173.2
	C Nelson Electricity Unplanned	99.5	57.0	40.1	16.4	49.8
	D Transpower Unplanned	-	-	-	-	-
	E ECNZ Unplanned	-	-	-	-	-
	F Other Generation	-	-	-	-	-
	G Unplanned Other Line Owner	-	-	-	-	-
	H Planned Other Line Owner	-	-	-	-	-
	I Other	-	-	-	-	-