

## FINANCIAL PERFORMANCE MEASURES AND EFFICIENCY PERFORMANCE MEASURES

(For the purposes of the Electricity (Information Disclosure) Regulations 1999)

### FIRST SCHEDULE – PART 3

	1999	1998	1997	1996
1. Financial Performance Measures				
(a) Return on funds	9.44%	-1.53%	12.80%	13.45%
(b) Return on equity	5.76%	-8.64%	10.24%	10.93%
(c) Return on investment (excluding the impact of revaluations and all non recurring items)	6.63%			
(d) Return on investment	8.83%	-12.38%	9.54%	29.24%
2. Efficiency Performance Measures				
(a) Direct line cost per kilometre	\$2,746.16	\$2,830.15	\$2,893.73	\$2,775.00
(b) Indirect line costs per customer	\$213.27	\$83.73	\$55.69	\$50.63

## ENERGY DELIVERY EFFICIENCY PERFORMANCE MEASURES AND STATISTICS

(For the purposes of the Electricity (Information Disclosure) Regulations 1999)

### FIRST SCHEDULE - PART 4

	1999	1998	1997	1996
1. Energy Delivery Efficiency Performance Measures				
(a) Load Factor	58.06%	56.71%	55.46%	62.42%
(b) Loss Ratio	4.47%	4.50%	4.34%	4.25%
(c) Capacity Utilisation	35.40%	35.15%	35.95%	30.04%

### 2. Statistics

#### (a) System Length (in kilometres)

	400V	6.6kV	11kV	22kV	33kV	110kV	Total
1999	4,747.18	414.45	3,236.26	251.46	294.42	70.66	9,014.41
1998	4,732.28	415.89	3,092.57	249.90	261.49	60.86	8,812.99
1997	4,714.19	419.40	2,944.89	249.90	240.46	60.86	8,629.70
1996	4,685.18	421.47	2,924.83	249.65	240.46	60.86	8,582.45

#### (b) Total Circuit Length (in kilometres) of Overhead Electric Lines

	400V	6.6kV	11kV	22kV	33kV	110kV	Total
1999	1,800.60	91.99	1,177.86	0.00	64.66	5.25	3,140.36
1998	1,809.10	93.74	1,196.22	0.00	64.66	0.00	3,163.71
1997	1,823.96	97.25	1,216.90	0.00	64.66	0.00	3,202.76
1996	1,831.76	99.00	1,216.31	0.00	64.66	0.00	3,211.73

(c) Total Circuit Length (in kilometres) of Underground Electric Lines

	<b>400V</b>	<b>6.6kV</b>	<b>11kV</b>	<b>22kV</b>	<b>33kV</b>	<b>110kV</b>	<b>Total</b>
1999	2,946.58	322.46	2,058.39	251.46	229.76	65.41	5,874.06
1998	2,923.19	322.15	1,896.35	249.90	196.83	60.86	5,649.28
1997	2,890.23	322.15	1,727.99	249.90	175.80	60.86	5,426.93
1996	2,853.42	322.47	1,708.52	249.65	175.80	60.86	5,370.72

	<b>1999</b>	<b>1998</b>	<b>1997</b>	<b>1996</b>
(d) Transformer Capacity (kVA)	2,537.61	2,657.45	2,613.45	2,835.24
(e) Maximum Demand (kW)	898,212	934,154	939,662	851,656
(f) Total electricity supplied (kWh)	4,363,866,868	4,432,166,623	4,367,119,190	4,453,647,269
(g) Total amount of electricity (kWh) conveyed through the system on behalf of each person that is an electricity retailer or generator, or both	507,455,757	244,212,463	107,232,001	24,953,175
Company A	6,883,037			
Company B	2,285,319			
Company C	8,491,629			
Company D	51,084,610			
Company E	145,503,236			
Company F	259,703			
Company G	34,053,517			
Company H	77,993,706			
Company I	143,797,273			
Company J	90,791			
Company K	37,012,936			
(h) Total consumers: (average)	255,010	251,155	246,684	243,765

## RELIABILITY PERFORMANCE MEASURES

(For the purposes of the Electricity (Information Disclosure) Regulations 1999)

### FIRST SCHEDULE - PART 5

	2004	2003	2002	2001	2000	1999	1998	1997	1996
1. Interruptions									
Total number of interruptions according to class:									
Class A						-	-	-	-
Class B						80	274	104	239
Class C						521	490	662	475
Class D						4	6	8	48
Class E						-	-	-	-
Class F						-	-	-	-
Class G						-	-	-	-
Class H						-	-	-	-
Class I						-	-	-	-
<u>Total Interruptions:</u>						<u>605</u>	<u>770</u>	<u>774</u>	<u>762</u>
2. Interruption Targets									
(a) Planned (Class B)					80				
(b) Unplanned (Class C)					499				
3. Average Interruption Targets									
(a) Planned (Class B)	80	80	80	80	80				
(b) Unplanned (Class C)	446	461	476	491	517				

	2004	2003	2002	2001	2000	1999	1998	1997	1996
4. The proportion (expressed as a percentage) of the total number of Class C interruptions not restored within:									
(a) 3 hours						18.86			
(b) 24 hours						0.22			

### Faults

5. Faults per 100 circuit kilometres of prescribed voltage electric lines									
(a) The total number of faults						12.32	12.01	15.17	13.42
(b) The targeted number of faults					11.71				
(c) The average number of faults	10.19	10.56	10.96	11.43	12.01				
(d) Breakdown of (a) to (c) according to line voltage:									
	<b>6.6kV</b>	<b>11kV</b>	<b>22kV</b>	<b>33kV</b>	<b>110kV</b>	<b>Total</b>			
(a) 1999	1.93	14.80	6.76	4.76	10.70	12.32			
(b) 2000	1.21	14.46	5.97	3.40	1.53	11.71			
(c) 2000	1.57	14.63	6.36	4.08	6.12	12.01			
(c) 2001	1.09	14.23	5.35	3.26	1.36	11.43			
(c) 2002	0.84	13.78	4.34	3.12	1.18	10.96			
(c) 2003	0.72	13.33	3.35	3.12	1.18	10.56			
(c) 2004	0.72	12.89	2.37	3.12	1.18	10.19			

6. Number of faults per 100 circuit kilometres of prescribed voltage underground cables.

	6.6kV	11kV	22kV	33kV	110kV	Total
1999	1.24	9.72	6.76	3.05	6.12	7.92
1998	1.86	8.70	3.60	8.13	13.14	7.48

1997	0.93	10.24	2.40	4.55	14.79	8.00
1996	0.93	7.14	4.81	1.14	4.93	5.64

7. Number of faults per 100 circuit kilometres of prescribed voltage overhead lines.

	<b>6.6kV</b>	<b>11kV</b>	<b>22kV</b>	<b>33kV</b>	<b>110kV</b>	<b>Total</b>
1999	4.35	23.69	0.00	10.83	0.22	21.96
1998	5.33	23.16	0.07	4.64	0.00	21.11
1997	7.20	29.75	0.00	34.02	0.00	28.36
1996	7.07	30.05	0.00	4.64	0.00	27.61

	<b>2004</b>	<b>2003</b>	<b>2002</b>	<b>2001</b>	<b>2000</b>	<b>1999</b>	<b>1998</b>	<b>1997</b>	<b>1996</b>
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**SAIDI**

8. The SAIDI for the total interruptions 82.26    153.32    123.77    120.77

9. SAIDI targets for following financial year.

(a) Planned (Class B)	6.00
(b) Unplanned (Class C)	59.00

10. Average SAIDI targets

(a) Planned (Class B)	8.00	8.00	8.00	8.00	7.25
(b) Unplanned (Class C)	70.25	70.75	71.25	71.75	73.35

	2004	2003	2002	2001	2000	1999	1998	1997	1996
11. The SAIDI for the total interruptions within each interruption class									
Class A						-	-	-	-
Class B						6.49	35.41	12.34	21.07
Class C						74.70	117.91	95.34	94.71
Class D						1.07	-	16.10	5.00
Class E						-	-	-	-
Class F						-	-	-	-
Class G						-	-	-	-
Class H						-	-	-	-
Class I						-	-	-	-
<b>SAIFI</b>									
12. The SAIFI for the total interruptions						1.26	1.72	2.19	1.95
13. SAIFI targets for following financial year.									
(a) Planned (Class B)					0.04				
(b) Unplanned (Class C)					1.20				
14. Average SAIFI targets									
(a) Planned (Class B)	0.04	0.04	0.04	0.04	0.04				
(b) Unplanned (Class C)	1.24	1.23	1.22	1.21	1.18				

	2004	2003	2002	2001	2000	1999	1998	1997	1996
15. The SAIFI for the total interruptions within each interruption class									
Class A						-	-	-	-
Class B						0.03	0.15	0.22	0.16
Class C						1.16	1.57	1.62	1.75
Class D						0.07	-	0.36	0.05
Class E						-	-	-	-
Class F						-	-	-	-
Class G						-	-	-	-
Class H						-	-	-	-
Class I						-	-	-	-

**CAIDI**

16. The CAIDI for the total interruptions						65.45	89.37	56.39	61.91
17. CAIDI targets for following financial year.									
(a) Planned (Class B)					210.00				
(b) Unplanned (Class C)					60.00				
18. Average CAIDI targets									
(a) Planned (Class B)	210.00	210.00	210.00	210.00	203.07				
(b) Unplanned (Class C)	56.50	57.50	58.50	59.50	62.30				

	2004	2003	2002	2001	2000	1999	1998	1997	1996
19. The CAIDI for the total interruptions within each interruption class									
Class A						-	-	-	-
Class B						196.15	239.37	56.82	133.80
Class C						64.59	75.22	58.81	54.27
Class D						15.89	-	45.11	103.40
Class E						-	-	-	-
Class F						-	-	-	-
Class G						-	-	-	-
Class H						-	-	-	-
Class I						-	-	-	-

**Description of Interruption Classes as per 1999 Disclosure Regulations**

- Class A Planned Trans Power interruption
- Class B Planned interruption by a Line Operator (other than Trans Power)
- Class C Unplanned interruption originating within the principal Line Owners works
- Class D Unplanned Trans Power interruption
- Class E Unplanned interruption originating within the principal Line Owners works (generation)
- Class F Unplanned interruption (as E above) by persons other than principal Line Owner (generation)
- Class G Unplanned interruption caused by another Line Owner
- Class H Planned interruption caused by another Line Owner
- Class I Other (an interruption not referred to above)