REPORT MP1: NETWORK INFORMATION
(Separate report required for each Non-Contiguous Network)

Electricity Distribution Business:	Waipa Networks	
For Year Ended:	2009	

ref				
6				
7	Network Name:	**Total Business**	(enter "Total Business" or name of network)	
	Disclosure:	Annual Disclosure - Requirement 6(1)		

Circuit Length by Operating Line Voltage (at year end)

ref		Overhead (km)	Underground (km)	Total (km)	
10					
11					
12	> 66kV			-	
13	50kV & 66kV			-	
14	33kV			-	
15	SWER (all SWER voltages)			-	
16	22kV (other than SWER)			-	
17	6.6kV to 11kV (inclusive - other than SWER)	1,226	99	1,325	
18	Low Voltage (< 1kV)	509	223	732	
19	**Total circuit length (for Supply)**	**1,735**	**323**	**2,058**	to MP2
20					
21	Dedicated Street Lighting Circuit Length	73	53	125	

Overhead Circuit Length by Terrain (at year end)

ref		(km)	(%)
23			
24	Urban (only)	220	13%
25	Rural (only)	1,434	83%
26	Remote (only)		0%
27	Rugged (only)		0%
28	Rural & rugged (only)	81	5%
29	Remote & rugged (only)		0%
30	Unallocated overhead lines		0%
31	**Total overhead length**	**1,735**	**100%**

Transformer capacity (at year end)

ref				Previous Year
35	Distribution Transformer Capacity (EDB Owned)	200	MVA	195
36	Distribution Transformer Capacity (Non-EDB Owned, Estimated)	49	MVA	50
37	**Total Distribution Transformer Capacity**	249	MVA (to MP2)	244
38				
39	Zone Substation Transformer Capacity	-	MVA	-

System Fixed Assets age (at year end)

ref			
42	Average Age of System Fixed Assets	21	Years
43	Average Expected Total Life of System Fixed Assets	49	Years
44	Average Age as a Proportion of Average Expected Total Life	42%	%
46	Estimated Proportion of Assets (by Replacement Cost) within 10 years of Total Life	14%	%

Electricity demand

ref			Maximum coincident system demand (MW)	Non-coincident Sum of maximum demands (MW)	
53		**GXP Demand**	59	63	
54	plus	Embedded Generation Output at HV and Above	2		
55		**Maximum System Demand**	61		
56	less	Net Transfers to (from) Other EDBs at HV and Above	0		
57		*Demand on system for supply to customers' Connection Points*	61		
58	less	Subtransmission Customers' Connection Point Demand	-	-	
59		**Maximum Distribution Transformer Demand**	61		to MP2
60					
61		GXP Demand not Supplied at Subtransmission Level	-		
62		Embedded Generation Output - Connected to Subtransmission System	-	-	
63		Net Transfers to (from) Other EDBs at Subtransmission Level Only	-	-	
65		**Estimated Controlled Load Shed at Time of Maximum System Demand (MW)**	11		
67		**Five-Year System Maximum Demand Growth Forecast**	2.0	% p.a.	

Electricity volumes carried

ref			(GWh)		
70		Electricity Supplied from GXPs	339		
71	less	Electricity Exports to GXPs	-		
72	plus	Electricity Supplied from Embedded Generators	3		
73	less	Net Electricity Supplied to (from) Other EDBs	1		
74		*Electricity entering system for supply to customers' Connection Points*	340		
75	less	Electricity Supplied to Customers' Connection Points	318		to MP2
76		**Electricity Losses (loss ratio)**	22	6.5% %	
78		Electricity Supplied to Customers' Connection Points	318		
79	less	Electricity Supplied to Largest 5 Connection Points	66		
80		**Electricity supplied other than to Largest 5 Connection Points**	252	79% %	

Load Factor

ref			
82	Load Factor	64%	%

Number of Connection Points (at year end)

ref				
84	Number of Connection Points (at year end)	22,897	ICPs	to MP2

Intensity of service requirements

ref			
87	Demand Density (Maximum Distribution Transformer Demand / Total circuit length)	30	kW/km
88	Volume Density (Electricity Supplied to Customers' Connection Points / Total circuit length)	155	MWh/km
89	Connection Point Density (ICPs / Total circuit length)	11	ICP/km
90	Energy Intensity (Electricity Supplied to Customers' Connection Points / ICP)	13,909	kWh/ICP