## **REPORT MP1: NETWORK INFORMATION**

(Separate report required for each Non-Contiguous Network)

(Осра	i ato i o	port required for edon it	on-contiguous Network)					
ref				Electricity Distribution Business:		Waipa Networks		
6						For Year Ended:	2012	
7		Network Name:	Total Business		(enter "Total Rusines	s" or name of network)		
,			Annual Disclosure - Requirement 6(1	\	(critici Total Basilics)	or name or networky		
9		Disclosure:	Annual Disclosure - Requirement of t	<u>)                                    </u>	J			
10	Circu	uit Length by Operating	Line Voltage (at year end)	Overhead	Underground	Total		
11				(km)	(km)	(km)		
12		> 66kV				-		
13		50kV & 66kV 33kV				-		
14 15		SWER (all SWER voltages)				-		
16		22kV (other than SWER)				-		
17		6.6kV to 11kV (inclusive - oth	er than SWER)	1,226	111	1,337		
18 19		Low Voltage (< 1kV)  Total circuit length (for Sup	nlv)	1,735	241 352	750 <b>2,087</b>	to MP2	
20		Total on out longth (for out	P-3/	1,100	332	2,001	10 1011 2	
21		Dedicated Street Lighting C	ircuit Length	68	59	126		
22	0	de a a d'Oineacht I am aith leach	Townsia (at was a su al)	<i>a</i> .	(0/)			
23	Over	head Circuit Length by Turban (only)	Terrain (at year end)	(km)	<b>(%)</b> 12%			
24 25		Rural (only)		1,438	83%	-		
26		Remote (only)		, 33	0%			
27		Rugged (only)			0%			
28 29		Rural & rugged (only) Remote & rugged (only)		81	5% 0%	-		
30		Unallocated overhead lines			0%	•		
31		Total overhead length		1,735	100%			
32				-				
33 34	Tran	nsformer capacity (at yea	ar end)				Previous Year	
35		Distribution Transformer Cap	•		216	MVΔ	209	
36			acity (Non-EDB Owned, Estimated)			MVA	49	
37		Total Distribution Transform				MVA (to MP2)	258	
38			• •					
39		Zone Substation Transformer	Capacity		-	MVA		
40								
41	Syste	em Fixed Assets age (at						
42		Average Age of System Fixed				Years		
43		Average Expected Total Life	·			Years		
44 45		Average Age as a Proportion	of Average Expected Total Life		43%	%		
46		Estimated Proportion of Asse	ts (by Replacement Cost) within 10 years of Total Life		14%	%		
47								
48 49					Maximum			
50					coincident	Non-coincident		
51	Elect	tricity demand			system	Sum of maximum		
52		CVD Damand			demand (MW)	demands (MW)		
53 54	plus	GXP Demand Embedded Generation Output	t at HV and Above		70	70		
55	p.ac	Maximum System Demand			70	•		
56	less	Net Transfers to (from) Other			1			
57 58	less	Demand on system for sup Subtransmission Customers'	oly to customers' Connection Points Connection Point Demand		69			
58 59	1000	Maximum Distribution Tran			69		to MP2	
60								
61		GXP Demand not Supplied at	Subtransmission Level t - Connected to Subtransmission System		-			
62 63			EDBs at Subtransmission Level Only		-	-		
64		` ,	·					
65		Estimated Controlled Load	Shed at Time of Maximum System Demand (MW)		11			
66 67		Five-Year System Maximum	Demand Growth Forecast		2 0	% p.a.		
68		Oyotom maximum			2.0	p.u		
69	Elect	tricity volumes carried			(GWh)			
70	,	Electricity Supplied from GXP	S		370			
71 72	less	Electricity Exports to GXPs Electricity Supplied from Emb	edded Generators		- 2			
72	•	Net Electricity Supplied from Emb			2			
74		Electricity entering system	for supply to customers' Connection Points		370			
75	less	Electricity Supplied to Custom			347	0.001	to MP2	
76 77		Electricity Losses (loss rati	0)		23	6.3%	%	
78		Electricity Supplied to Custom	ners' Connection Points		347			
79	less	Electricity Supplied to Larges	5 Connection Points		75			
80		Electricity supplied other th	an to Largest 5 Connection Points		272	78%	%	
81								

82	Load Factor	61%	%	
83	Number of Connection Points (at year end)	22.750	100	
84 85	Number of Connection Forms (at year end)	23,759	ICPS	to MP2
86	Intensity of service requirements			
87	Demand Density (Maximum Distribution Transformer Demand / Total circuit length)	33	kW/km	
88	Volume Density (Electricity Supplied to Customers' Connection Points / Total circuit length)	166	MWh/km	
89	Connection Point Density (ICPs / Total circuit length)	11	ICP/km	
90	Energy Intensity (Electricity Supplied to Customers' Connection Points / ICP)	14,601	kWh/ICP	