

**REPORT MP1: NETWORK INFORMATION**

(Separate report required for each Non-Contiguous Network)

Electricity Distribution Business: **Waipa Networks**  
For Year Ended: **2008**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)**

	Overhead (km)	Underground (km)	Total (km)	
> 66kV				-
50kV & 66kV				-
33kV				-
SWER (all SWER voltages)				-
22kV (other than SWER)				-
6.6kV to 11kV (inclusive - other than SWER)	1,226	87	1,312	
Low Voltage (< 1kV)	498	199	697	
<b>Total circuit length (for Supply)</b>	<b>1,724</b>	<b>285</b>	<b>2,009</b>	to MP2
<b>Dedicated Street Lighting Circuit Length</b>	<b>68</b>	<b>45</b>	<b>113</b>	

**Overhead Circuit Length by Terrain (at year end)**

	(km)	(%)
Urban (only)	219	13%
Rural (only)	1,424	83%
Remote (only)		0%
Rugged (only)		0%
Rural & rugged (only)	81	5%
Remote & rugged (only)		0%
Unallocated overhead lines		0%
<b>Total overhead length</b>	<b>1,724</b>	<b>100%</b>

**Transformer capacity (at year end)**

		Previous Year
Distribution Transformer Capacity (EDB Owned)	195 MVA	187
Distribution Transformer Capacity (Non-EDB Owned, Estimated)	50 MVA	50
<b>Total Distribution Transformer Capacity</b>	<b>244 MVA (to MP2)</b>	<b>237</b>
Zone Substation Transformer Capacity	- MVA	-

**System Fixed Assets age (at year end)**

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

**Electricity demand**

	Maximum coincident system demand (MW)	Non-coincident Sum of maximum demands (MW)	
GXP Demand	60	62	
plus Embedded Generation Output at HV and Above	1		
<b>Maximum System Demand</b>	<b>61</b>		
less Net Transfers to (from) Other EDBs at HV and Above	0		
<b>Demand on system for supply to customers' Connection Points</b>	<b>60</b>		
less Subtransmission Customers' Connection Point Demand	-	-	
<b>Maximum Distribution Transformer Demand</b>	<b>60</b>		to MP2
GXP Demand not Supplied at Subtransmission Level	-		
Embedded Generation Output - Connected to Subtransmission System	-	-	
Net Transfers to (from) Other EDBs at Subtransmission Level Only	-	-	
<b>Estimated Controlled Load Shed at Time of Maximum System Demand (MW)</b>	<b>11</b>		
<b>Five-Year System Maximum Demand Growth Forecast</b>	<b>2.0 % p.a.</b>		

**Electricity volumes carried**

	(GWh)	
Electricity Supplied from GXPs	341	
less Electricity Exports to GXPs	-	
plus Electricity Supplied from Embedded Generators	2	
less Net Electricity Supplied to (from) Other EDBs	1	
<b>Electricity entering system for supply to customers' Connection Points</b>	<b>341</b>	
less Electricity Supplied to Customers' Connection Points	319	
<b>Electricity Losses (loss ratio)</b>	<b>22</b>	<b>6.4% %</b>
Electricity Supplied to Customers' Connection Points	319	
less Electricity Supplied to Largest 5 Connection Points	69	
<b>Electricity supplied other than to Largest 5 Connection Points</b>	<b>250</b>	<b>78% %</b>

**Load Factor**

64% %

**Number of Connection Points (at year end)**

22,702 ICPs to MP2

**Intensity of service requirements**

Demand Density (Maximum Distribution Transformer Demand / Total circuit length)	30 kW/km
Volume Density (Electricity Supplied to Customers' Connection Points / Total circuit length)	159 MWh/km
Connection Point Density (ICPs / Total circuit length)	11 ICP/km
Energy Intensity (Electricity Supplied to Customers' Connection Points / ICP)	14,043 kWh/ICP