

# EDB Information Disclosure Requirements Information Templates for Schedules 1–10

Company Name
Disclosure Date
Disclosure Year (year ended)

Waipa Networks Limited
26 August 2014
31 March 2014

Templates for Schedules 1–10 Template Version 3.0. Prepared 14 April 2014

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#### **SCHEDULE 1: ANALYTICAL RATIOS**

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

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#### 1(i): Expenditure metrics

8	
9	
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11	
12	
13	
14	

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#### Operational expenditure

Network Non-network

#### Expenditure on assets

Network Non-network

# 1(ii): Revenue metrics

18	
10	

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21

22

23 24 25

26

27

28

29 30

31

32 33

34

35

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37

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42 43

#### Total consumer line charge revenue

Standard consumer line charge revenue

Non-standard consumer line charge revenue

# 1(iii): Service intensity measures

Demand density
Volume density
Connection point density
Energy intensity

# 1(iv): Composition of regulatory income

Operational expenditure
Pass-through and recoverable costs
Total depreciation
Total revaluation
Regulatory tax allowance
Regulatory profit/loss
Total regulatory income

# 1(v): Reliability

Interruption rate

Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	erage no. of coincident system		penditure per MW maximum Expenditure per age no. of coincident system km circuit leng		Expenditure per MVA of capacity from EDB- owned distribution transformers (\$/MVA)
13,094	188	66,702	2,166	20,234		
5,617	81	28,614	929	8,680		
7,477	107	38,088	1,237	11,554		

į.				
22,447	322	114,350	3,713	34,688
22,188	318	113,030	3,671	34,288
259	4	1,320	43	400

Revenue per GWh	Revenue per
energy delivered	average no. of
to ICPs (\$/GWh)	ICPs (\$/ICP)

to ICPS (\$/GWN)	ICPS (\$/ICP)
63,493	911
73,317	870
16,553	497,500

32
165
12
14,351

Maximum coincident system demand per km circuit length (for supply) (kW/km)
Total energy delivered to ICPs per km circuit length (for supply) (MWh/km)
Average number of ICPs per km circuit length (for supply) (ICPs/km)
Total energy delivered to ICPs per Average number of ICPs (kWh/ICP)

# (\$000) % of revenue

4,548	20.67%
7,556	34.34%
3,301	15.00%
1,374	6.24%
1,059	4.81%
6,917	31.43%
22,006	

#### Interruptions per 100 circuit km

10.24

#### **SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii). EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref					
7	2(i): Re	turn on Investment	CY-2	CY-1	Current Year CY
8			31 Mar 12	31 Mar 13	31 Mar 14
9	Po	st tax WACC	<u> </u>	%	%
10		ROI—comparable to a post tax WACC	6.62%	6.06%	6.90%
11			·		
12		Mid-point estimate of post tax WACC	6.40%	5.85%	5.43%
13		25th percentile estimate	5.68%	5.13%	4.71%
14		75th percentile estimate	7.11%	6.56%	6.14%
15 16					
17	Va	nilla WACC			
18		ROI—comparable to a vanilla WACC	7.44%	6.84%	7.58%
19		to a variate voice	7.4470	0.0470	7.50%
20		Mid-point estimate of vanilla WACC	7.22%	6.62%	6.11%
21		25th percentile estimate	6.51%	5.91%	5.39%
22		75th percentile estimate	7.94%	7.34%	6.83%
23			<u></u>		
24	2(ii): In:	formation Supporting the ROI		(\$000)	
24	2(11). 111	ormation supporting the KOI		(3000)	
25			00 700		
26 27	plus	Total opening RAB value Opening deferred tax	89,783 (1,724)		
28	ρius	Opening RIV	(1,724)	88,059	
29		Opening NV	<u>L</u>	00,033	
30		Operating surplus / (deficit)	9,902		
31	less	Regulatory tax allowance	1,059		
32	less	Assets commissioned	3,650		
33	plus	Asset disposals	175		
34		Notional net cash flows		5,369	
35			_		
36		Total closing RAB value	91,331		
37	less	Adjustment resulting from asset allocation	(0)		
38	less	Lost and found assets adjustment			
39	plus	Closing deferred tax	(2,162)		
40		Closing RIV	L	89,169	
41			_		
42	RO	I—comparable to a vanilla WACC	<u> </u>	7.58%	
43		Laurence (N/)	_	440/	
44		Leverage (%)  Cost of dobt assumption (%)	<u> </u>	44% 5 56%	
45 46		Cost of debt assumption (%)	<del> -</del>	5.56% 28%	
47		Corporate tax rate (%)	<u> </u>	28%	
48	RO	I—comparable to a post tax WACC		6.90%	

#### **SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

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This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch re	f
sch re	

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80 81

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88 89

# 2(iii): Information Supporting the Monthly ROI

57							
58	Cash flows			(\$0	00)		
		Total regulatory			Assets		Notional net cash
59		income	Expenses	Tax payments	commissioned	Asset disposals	flows
60	April						-
61	May						-
62	June						-
63	July						-
64	August						-
65	September						-
66	October						-
67	November						-
68	December						-
69	January						-
70	February						-
71	March						-
72	Total	-	-	-	-	-	-
73							·
			Adjustment				
		Opening / closing	resulting from	Lost and found	Opening / closing	Revenue related	
74		RAB	asset allocation	assets adjustment	deferred tax	working capital	Total
75	Monthly ROI - opening RIV	89,783			(1,724)		88,059
76							
77	Monthly ROI -closing RIV	91,331	(0)	-	(2,162)	-	89,169

# 2(iv): Year-End ROI Rates for Comparison Purposes

Year-end ROI—comparable to a post-tax WACC

Monthly ROI—comparable to a vanilla WACC

Monthly ROI—comparable to a post-tax WACC

Monthly ROI -closing RIV less term credit spread differential allowance

Year-end ROI—comparable to a vanilla WACC	7.69%

\* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.

89,169

7.01%

# **SCHEDULE 3: REPORT ON REGULATORY PROFIT**

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete 3(i), 3(iv) and 3(v) and must provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

Non-exempt EDBs must also complete sections 3(ii) and 3(iii).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

ch rej	ef	
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	22,054
10	plus Gains / (losses) on asset disposals	(139)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	91
12		<u></u>
13	Total regulatory income	22,006
14	Expenses	
15	less Operational expenditure	4,548
17	less Pass-through and recoverable costs	7,556
18		
19	Operating surplus / (deficit)	9,902
20		
21	less Total depreciation	3,301
22		
23	plus Total revaluation	1,374
24 25	Regulatory profit / (loss) before tax & term credit spread differential allowance	7,975
26	negulatory profit / (1035) before tax & term credit spread differential allowance	7,573
27	less Term credit spread differential allowance	_
28	ress Term of ear spread amereman anothere	
29	Regulatory profit / (loss) before tax	7,975
30		
31	less Regulatory tax allowance	1,059
32		
33	Regulatory profit / (loss)	6,917
34		
35	3(ii): Pass-Through and Recoverable Costs	(\$000)
36	Pass-through costs	
37	Rates	83
38	Commerce Act levies	6
	Electricity Authority levies	45
40	Other specified pass-through costs	
41	Recoverable costs	
42	Net recoverable costs allowed under incremental rolling incentive scheme	
43	Non-exempt EDB electricity lines service charge payable to Transpower	7,379
44	Transpower new investment contract charges	45
45	System operator services	
46	Avoided transmission charge	
47 48	Input Methodology claw-back Recoverable customised price-quality path costs	
	VECOAELANIE CASTOLLISEA DLICE-ANGLICA DATLI COSTS	

Company Name
For Year Ended

Waipa Networks Limited
31 March 2014

# **SCHEDULE 3: REPORT ON REGULATORY PROFIT**

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete 3(i), 3(iv) and 3(v) and must provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

	•	complete sections 3(ii) and 3 dited disclosure information	3(iii). I (as defined in section 1.4 of the ID determination), and so is subject to the assurance ro	eport required by se	ection 2.8.
sch	ref				
57	3(iii): Increme	ental Rolling Incer	ntive Scheme	(\$0	000)
58	. ,	•		CY-1	CY
59				31 March 2013	31 March 2014
60		ntrollable opex			
61	Actual cont	rollable opex			
62					
63	Incrementa	I change in year			
64				Previous years' incremental change	Previous years' incremental change adjusted for inflation
66	CY-5	31 Mar 09		change	Tor illination
67	CY-4	31 Mar 10			
68	CY-3	31 Mar 11			
69	CY-2	31 Mar 12			
70	CY-1	31 Mar 13			
71	Net incremen	ntal rolling incentive scheme	e		-
72					
73	Net recovera	ble costs allowed under inc	remental rolling incentive scheme		-
74	3(iv): Merger an	nd Acquisition Expe	nditure		
75	Merger and	acquisition expenses			-
76		•			
77		•	merger and acquisition expenditure to the electricity distribution business, including redule 14 (Mandatory Explanatory Notes)	quired disclosures	
78	3(v): Other Disc	losures			
79		nce allowance			]

#### SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.

EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch re	f						
7	4(i): Regulatory Asset Base Value (Rolled Forward)		RAB	RAB	RAB	RAB	RAB
8		for year ended	31 Mar 10	31 Mar 11	31 Mar 12	31 Mar 13	31 Mar 14
9 10	Total opening RAB value		(\$000) 80,931	(\$000) 81,668	(\$000) 85,852	(\$000) 88,086	(\$000) 89,783
11	Total opening this value		80,531	81,008	65,652	88,080	83,783
12	less Total depreciation		2,946	3,011	3,127	3,220	3,301
13							
14	plus Total revaluations		1,632	1,966	1,345	755	1,374
15 16	plus Assets commissioned		3,170	5,414	4,228	4,392	3,650
17	pius Assets commissioneu		3,170	3,414	4,220	4,332	3,030
18	less Asset disposals		1,119	186	211	230	175
19						_	
20	plus Lost and found assets adjustment		-	-	-	-	-
21 22	plus Adjustment resulting from asset allocation					0	(0)
23	plus Aujustinent resulting from asset anocation				I.	•	(0)
24	Total closing RAB value		81,668	85,852	88,086	89,783	91,331
25							
26	4(ii): Unallocated Regulatory Asset Base						
27				Unallocate		RAB	
28	Total ananing BAR value			(\$000)	(\$000)	(\$000)	(\$000)
29 30	Total opening RAB value  less			L	95,109	L	89,783
31	Total depreciation			Г	3,539	Г	3,301
32	plus			_		_	
33	Total revaluations			L	1,455	L	1,374
34	plus		F	2.654		2.650	
35 36	Assets commissioned (other than below)  Assets acquired from a regulated supplier		-	3,651		3,650	
37	Assets acquired from a related party			-		-	
38	Assets commissioned				3,651		3,650
39	less		_		_		
40	Asset disposals (other than below)		_	175	_	175	
41 42	Asset disposals to a regulated supplier		-	-		-	
43	Asset disposals to a related party  Asset disposals		L		175		175
44	. Social supposes			<u> </u>	1,0	<u> </u>	1,0
45	plus Lost and found assets adjustment				_		-
46				_			
47	plus Adjustment resulting from asset allocation					L	(0)
48 49	Total closing RAB value			Г	96,502	г	91,331
49	Total closing KAD value			L	30,302		51,551

<sup>\*</sup> The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to non-regulated services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)  This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2.  EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the ass by section 2.8.  sch ref  ss 4 4(iii): Calculation of Revaluation Rate and Revaluation of Assets  60	mited
This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROT calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the ass by section 2.8.  \$\$\frac{4\{\(\frac{1}{3}\)}}{\(\frac{5}{2}\)}}\$  \$\$\frac{4\{\(\frac{1}{3}\)}{\(\frac{1}{2}\)}}{\(\frac{1}{2}\)}\$  \$\$\frac{1}{3}\)  \$\$\frac{1}{4\{\(\frac{1}{3}\)}}\$  \$\$\frac{1}{4\{\(\frac{1}{3}\)}\$  \$\$\frac{1}{4\{\(\frac{1}{3}\)}}\$  \$\$\frac	1
### ### ### ### ### ### ### ### ### ##	
### ### #### #########################	
A	urance report require
4(iii): Calculation of Revaluation Rate and Revaluation of Assets    CPI	
CP	
CPI	
CP	
	1,192
	1,174
	1.53%
Section of Companies of Compa	AB.
Total opening RAB value 95,109 less Opening RAB value of fully depreciated, disposed and lost assets 190 190 190 190 190 190 190 190 190 190	(\$000)
7	<del>-</del>
Total opening RAB value subject to revaluation  Total revaluations  4(iv): Roll Forward of Works Under Construction  Unallocated works under construction  Vorks under construction—preceding disclosure year  plus Capital expenditure  Capital expenditure  Allocated works  plus Capital expenditure  Allocated works  plus Assets commissioned  plus Adjustment resulting from asset allocation	-
Total revaluations  1,455  4(iv): Roll Forward of Works Under Construction  Unallocated works under construction Allocated works  Vorks under construction—preceding disclosure year  plus Capital expenditure  Capital expenditure  Assets commissioned  plus Adjustment resulting from asset allocation	•
4(iv): Roll Forward of Works Under Construction  Unallocated works under construction Allocated works under construction Allocated works under construction preceding disclosure year  plus Capital expenditure 5,335 5,336 6,536 7,7 plus Adjustment resulting from asset allocation	<u> </u>
4(iv): Roll Forward of Works Under Construction  Unallocated works under construction Allocated works under construction preceding disclosure year    Puls   Vorks under construction preceding disclosure year   1,206   1,20	1,374
Unallocated wrks under construction Allocated works  73 Works under construction—preceding disclosure year  74 Works under construction—preceding disclosure year  75 plus Capital expenditure  76 less Assets commissioned  77 plus Adjustment resulting from asset allocation	
Construction—preceding disclosure year    Puls   Supering   Superi	
Works under construction—preceding disclosure year    plus   Capital expenditure   5,335   5,334     plus   Assets commissioned   3,651   3,650     plus   Adjustment resulting from asset allocation   5,335   5,335     plus   Adjustment resulting from asset allocation   5,335	
plus Capital expenditure 5,335 5,334 less Assets commissioned 3,651 3,650 plus Adjustment resulting from asset allocation	
less Assets commissioned 3,651 3,650 77 plus Adjustment resulting from asset allocation	1,206
plus Adjustment resulting from asset allocation	<del>-1</del>
	.†
	2,890
	2,030
80 Highest rate of capitalised finance applied	

Company Name **Waipa Networks Limited** 31 March 2014 For Year Ended SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD) This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch rei 4(v): Regulatory Depreciation 89 Unallocated RAB \* RAB 90 (\$000) (\$000) (\$000) (\$000) 91 Depreciation - standard 3,103 3,103 92 436 198 Depreciation - no standard life assets 93 Depreciation - modified life assets 94 Depreciation - alternative depreciation in accordance with CPP 95 Total depreciation 3.539 3.301 96 4(vi): Disclosure of Changes to Depreciation Profiles 97 (\$000 unless otherwise specified) Closing RAB value Depreciation under 'non-Closing RAB value charge for the under 'standard' standard' Asset or assets with changes to depreciation\* Reason for non-standard depreciation (text entry) period (RAB) depreciation depreciation 98 99 100 101 102 103 104 105 106 \* include additional rows if needed 4(vii): Disclosure by Asset Category 107 108 (\$000 unless otherwise specified) Subtransmission Subtransmission Distribution and Distribution and substations and Distribution cables Zone substations LV lines LV cables transformers switchgear Total 109 assets assets 110 Total opening RAB value 31,194 18,492 22,323 11,028 4,589 2,157 89,783 111 1,070 595 760 428 250 198 Total depreciation 3,301 112 Total revaluations 478 284 340 169 70 33 1,374 113 plus Assets commissioned 295 493 1,571 938 262 90 3,650 114 Asset disposals 175 175 115 plus Lost and found assets adjustment plus Adjustment resulting from asset allocation 116 117 plus Asset category transfers 118 Total closing RAB value 30,897 18,674 23,299 11,707 4,671 2,082 91,331 119 120 Asset Life 121 31.7 28.5 26.0 21.1 19.9 42.6 Weighted average remaining asset life (years) 44.1 122 Weighted average expected total asset life 59.9 45.1 37.4 40.4 53.2 (years)

# **SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section

	nformation is	part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the as	surance report required	by section 2.8.
sch ref				
7	5a(i): Re	gulatory Tax Allowance		(\$000)
8 9	ı	egulatory profit / (loss) before tax		7,975
10	plus	Income not included in regulatory profit / (loss) before tax but taxable	7 *	
11	·	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	*	
12		Amortisation of initial differences in asset values	1,609	
13		Amortisation of revaluations	204	
14				1,819
15 16	less	Income included in regulatory profit / (loss) before tax but not taxable	1,374 *	
17		Discretionary discounts and consumer rebates	2,486	
18		Expenditure or loss deductible but not in regulatory profit / (loss) before tax**	*	
19		Notional deductible interest	2,154	
20				6,014
21			_	
22	ı	egulatory taxable income	L	3,781
23 24	less	Utilised tax losses		
25	1622	Regulatory net taxable income		3,781
26		negulatory free taxable income	<b>L</b>	3,761
27		Corporate tax rate (%)	28%	
28	ı	egulatory tax allowance		1,059
29				
30		ngs to be provided in Schedule 14		
31	** Exclu	ling discretionary discounts and consumer rebates		
32	5a(ii): D	isclosure of Permanent Differences		
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedu	ıle 5a(i).	
34 35	5a(iii): <i>A</i>	mortisation of Initial Difference in Asset Values		(\$000)
36		Opening unamortised initial differences in asset values	51,474	
37		Amortisation of initial differences in asset values	1,609	
38		Adjustment for unamortised initial differences in assets acquired		
39		Adjustment for unamortised initial differences in assets disposed	(163)	
40		Closing unamortised initial differences in asset values		50,029
41			Г	
42		Opening weighted average remaining asset life (years)		32
43 44	5a(iv): A	mortisation of Revaluations		(\$000)
45 46		Opening Sum of RAB values without revaluations	84,505	
47		Adjusted depreciation	3,097	
48		Total depreciation	3,301	
49		Amortisation of revaluations		204

Waipa Networks Limited Company Name For Year Ended 31 March 2014 **SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE** This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref 5a(v): Reconciliation of Tax Losses (\$000) 57 58 59 Opening tax losses 60 Current period tax losses 61 Utilised tax losses less 62 **Closing tax losses** (\$000) 5a(vi): Calculation of Deferred Tax Balance 63 64 (1,724) 65 Opening deferred tax 66 67 Tax effect of adjusted depreciation 867 plus 68 806 69 Tax effect of total tax depreciation less 70 (3) Tax effect of other temporary differences\* 71 plus 72 450 73 less Tax effect of amortisation of initial differences in asset values 74 75 plus Deferred tax balance relating to assets acquired in the disclosure year 76 77 less Deferred tax balance relating to assets disposed in the disclosure year 46 78 79 Deferred tax cost allocation adjustment 80 81 Closing deferred tax (2,162) 82 5a(vii): Disclosure of Temporary Differences 83 In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary 84 differences). 85 5a(viii): Regulatory Tax Asset Base Roll-Forward 86 87 (\$000) 88 Opening sum of regulatory tax asset values 26,471 89 less Tax depreciation 2,877 3,839 90 Regulatory tax asset value of assets commissioned plus 91 Regulatory tax asset value of asset disposals 12 less 92 plus Lost and found assets adjustment 93 Other adjustments to the RAB tax value 27,421 Closing sum of regulatory tax asset values 94

			Company Name	Waip	a Networks Limited	
			For Year Ended		31 March 2014	
SCHEDUI	E 5b: REPORT ON RELATED F	PARTY TRANSA				
			ccordance with section 2.3.6 and 2.3.7 of the ID deter	mination.		
•			the ID determination), and so is subject to the assurar		section 2.8.	
h ref 						
5b(i): 9	Summary—Related Party Transa	ctions	(\$000	)		
35(1).	Total regulatory income	ctions	,,,,,,	<u>,</u>		
9	Operational expenditure			2,216		
0	Capital expenditure			6,159		
1	Market value of asset disposals			-		
2	Other related party transactions			-		
3   5b(ii):	Entities Involved in Related Part	y Transactions				
4	Name of related party		R	elated party relations	nip	
5	Waikato Tree Services		Trading Name of Waipa Networks Limited			
5	Waipa Networks - Contracting		Trading Department of Waipa Networks Limited			
7						
8						
9	* to do and distance larger to a solution					
	* include additional rows if needed					
9	•					
9	* include additional rows if needed  Related Party Transactions					
9	•			Value of		
9	•	Related party		Value of transaction		
5b(iii):	•	Related party transaction type	Description of transaction		Basis for determining value	
5 <b>b(iii):</b>	Related Party Transactions		<b>Description of transaction</b> Vegetation management	transaction (\$000)	Basis for determining value 2.3.6(1)	
5 <b>b(iii):</b> 2 3 4	Related Party Transactions  Name of related party	Opex	•	transaction (\$000) 449		
5 <b>b(iii):</b> 2 3 4 5	Name of related party Waikato Tree Services Waipa Networks - Contracting Waipa Networks - Contracting	Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance	transaction (\$000) 449 650 618	2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b> 22 34 45 56	Name of related party Waikato Tree Services Waipa Networks - Contracting Waipa Networks - Contracting Waipa Networks - Contracting	Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal	transaction (\$000)  449 650 618 234	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b> 2 3 4 5 7	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b> 22 34 45 56 77	Name of related party Waikato Tree Services Waipa Networks - Contracting Waipa Networks - Contracting Waipa Networks - Contracting	Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b>	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5b(iii):	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b> 5 <b>b(iii):</b>	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5 <b>b(iii):</b> 5 <b>b(iii):</b> 55 <b>b(iii):</b>	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5b(iii):  5b(iii):  5b(iii):	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5b(iii):  5b(iii):  5b(iii):  5b(iii):	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5b(iii):  5b(iii):  5b(iii):  5b(iii):	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	
5b(iii):  5b(iii):  5b(iii):  5b(iii):	Name of related party Waikato Tree Services Waipa Networks - Contracting	Opex Opex Opex Opex Opex Opex Opex Opex	Vegetation management Service interruptions and emergencies Routine and corrective maintenance Asset replacement and renewal System operations and network support	transaction (\$000) 449 650 618 234 265	2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1) 2.3.6(1)	

								Company Name	Wair	a Networks Lin	nited
								For Year Ended		31 March 2014	
Thi	s schedule is	<b>5c: REPORT ON TERM CREDIT SPREAD DIFFERE</b> only to be completed if, as at the date of the most recently published financia is part of audited disclosure information (as defined in section 1.4 of the ID d	I statements, the we	eighted average orig			fying debt and non-o		eater than five years		
sch re	f										
7 8 9	5c(i): Q	ualifying Debt (may be Commission only)									
10		Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
11											
12											
13											
14											
15											
16		* include additional rows if needed						-	-	-	-
17 18	5c(ii): <i>A</i>	Attribution of Term Credit Spread Differential									
19 20	Gr	oss term credit spread differential			-						
21			ı		1						
22		Total book value of interest bearing debt									
23		Leverage		44%							
24		Average opening and closing RAB values			<u> </u>						
25	At	tribution Rate (%)			-						
26 27	Te	rm credit spread differential allowance			-						

Company Name Waipa Networks Limited 31 March 2014 For Year Ended SCHEDULE 5d: REPORT ON COST ALLOCATIONS This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 5d(i): Operating Cost Allocations Value allocated (\$000s) Electricity Non-electricity OVABAA Arm's length distribution distribution allocation increase services services (\$000s) Service interruptions and emergencies 11 Directly attributable 12 Not directly attributable 13 Total attributable to regulated service 650 14 Vegetation management 15 Directly attributable 449 Not directly attributable 17 Total attributable to regulated service 449 18 Routine and corrective maintenance and inspection 19 Directly attributable 618 20 Not directly attributable 21 Total attributable to regulated service 618 22 Asset replacement and renewal Directly attributable 23 234 24 Not directly attributable 25 Total attributable to regulated service 234 26 System operations and network support 27 Directly attributable 823 28 Not directly attributable 78 162 240 29 Total attributable to regulated service 901 30 **Business support** 31 Directly attributable 1.369 32 Not directly attributable 513 327 186 33 34 Total attributable to regulated service 1,696 35 Operating costs directly attributable 36 Operating costs not directly attributable 405 348 753 Operating expenditure 37 4.548 5d(ii): Other Cost Allocations 45 Pass through and recoverable costs 47 Pass through costs 48 Directly attributable 133 Not directly attributable 50 Total attributable to regulated service 51 Recoverable costs 52 Directly attributable 7,423 53 Not directly attributable 54 55 Total attributable to regulated service 56 5d(iii): Changes in Cost Allocations\* † 57 CY-1 Current Year (CY) 58 Change in cost allocation 1 31 Mar 13 31 Mar 14 59 Original allocation Cost category Original allocator or line items 61 New allocator or line items Difference 62 Rationale for change 63 65 CY-1 Current Year (CY) 66 Change in cost allocation 2 31 Mar 13 31 Mar 14 67 Cost category Original allocation 68 Original allocator or line items New allocation 69 New allocator or line items Difference 70 71 Rationale for change 72 73 Current Year (CY) CY-1 Change in cost allocation 3 31 Mar 13 31 Mar 14 75 Cost category Original allocation 76 Original allocator or line items New allocation 77 Difference New allocator or line items 78 79 Rationale for change 80 81 82 \* a change in cost allocation must be completed for each cost allocator change that has occurred in the disciosure year. A movement in an allocator metric is not a change in allocator or component. † include additional rows if needed

Company Name Waipa Networks Limited 31 March 2014 For Year Ended **SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS** This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 5e(i):Regulated Service Asset Values Value allocated (\$000s) Electricity Subtransmission lines 11 Directly attributable 12 Not directly attributable 13 Total attributable to regulated service 14 Subtransmission cables 15 Directly attributable 16 Not directly attributable 17 Total attributable to regulated service 18 Zone substations 19 Directly attributable 20 Not directly attributable 21 Total attributable to regulated service 22 Distribution and LV lines Directly attributable 30,897 24 Not directly attributable 25 Total attributable to regulated service 30,897 26 Distribution and LV cables 27 Directly attributable 18,674 28 Not directly attributable 29 Total attributable to regulated service 18.674 30 Distribution substations and transformers 31 Directly attributable 23.299 Not directly attributable 32 33 Total attributable to regulated service 23,299 Distribution switchgear 34 35 Directly attributable 11,707 Not directly attributable 37 Total attributable to regulated service 11,707 38 Other network assets 39 4,671 40 Not directly attributable 41 Total attributable to regulated service 4.671 42 Non-network assets 43 Directly attributable 481 44 Not directly attributable 1601 Total attributable to regulated service 45 2,082 46 47 Regulated service asset value directly attributable 89.730 48 Regulated service asset value not directly attributable 1.601 49 Total closing RAB value 91,331 5e(ii): Changes in Asset Allocations\* † 57 (\$000) Current Year (CY) 58 CY-1 31 Mar 13 31 Mar 14 59 Change in asset value allocation 1 60 61 Asset category Original allocation 62 Original allocator or line items New allocation Difference 63 New allocator or line items 64 Rationale for change 66 67 CY-1 Current Year (CY) Change in asset value allocation 2 31 Mar 13 31 Mar 14 68 69 Asset category Original allocation Original allocator or line items New allocation 71 New allocator or line items Difference 72 73 Rationale for change 74 75 Current Year (CY) 76 CY-1 77 Change in asset value allocation 3 31 Mar 14 Asset category Original allocation 79 New allocation 80 New allocator or line items Difference 81 Rationale for change 82 84 85 \* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component. + include additional rows if needed

Company Name For Year Ended Waipa Networks Limited 31 March 2014

# SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.

EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref			
7	6a(i): Expenditure on Assets	(\$000)	(\$000)
8	Consumer connection		2,662
9	System growth		54
10	Asset replacement and renewal		473
11	Asset relocations		1,795
12	Reliability, safety and environment:		
13	Quality of supply	2,190	
14	Legislative and regulatory	-	
15	Other reliability, safety and environment	533	
16	Total reliability, safety and environment		2,723
17	Expenditure on network assets		7,707
18	Non-network assets		90
19			
20	Expenditure on assets		7,797
21	plus Cost of financing		
22	less Value of capital contributions		2,463
23	plus Value of vested assets		
24			
25	Capital expenditure		5,334
	Ca/ii\ Cubaaranananta of Funanditura on Assata (ubara lunarun)		(\$000)
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(3000)
27	Energy efficiency and demand side management, reduction of energy losses		-
28	Overhead to underground conversion		222
29	Research and development		-
30	6a(iii): Consumer Connection		
31	Consumer types defined by EDB*	(\$000)	(\$000)
32	Residential	2,168	(\$555)
33	Commercial	494	
34		19.7	
35			
36			
37	* include additional rows if needed		· 
38	Consumer connection expenditure		2,662
39		1.150	
40	less Capital contributions funding consumer connection expenditure	1,150	4.544
41	Consumer connection less capital contributions		1,511
42	6a(iv): System Growth and Asset Replacement and Renewal		Asset Replacement and
43		System Growth	Renewal
44		(\$000)	(\$000)
45	Subtransmission	-	-
46	Zone substations	-	-
47	Distribution and LV lines	45	61
48	Distribution and LV cables	3	49
49	Distribution substations and transformers	-	-
50	Distribution switchgear	5	116
51	Other network assets	-	247
52	System growth and asset replacement and renewal expenditure	54	473
53	less Capital contributions funding system growth and asset replacement and renewal	-	-
54	System growth and asset replacement and renewal less capital contributions	54	473
55			
5.0	6a(v): Asset Relocations		
56 57	Project or programme*	(\$000)	(\$000)
58	Waikato Expressway	1,530	(3000)
59	Cambridge Switchboard Replacement	196	
60	cambridge switchboard repracement	150	
61			
62			•
62 63	* include additional rows if needed		
62 63 64	* include additional rows if needed  All other asset relocations projects or programmes	69	
63		69	1,795
63 64	All other asset relocations projects or programmes	1,276	1,795
63 64 65	All other asset relocations projects or programmes  Asset relocations expenditure		1,795

Company Name For Year Ended Waipa Networks Limited 31 March 2014

# SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.

EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

Seq.(vii): Quality of Supply  **Incident or programmer*	rof			
South   Sout	ref			
Install 114V Depose flaces spare is services   108   108   123	6a(vi)	: Quality of Supply		
Reduce Disconectors Install Enduk-HTI 1364V lines  * Include distillational rows of secreted All other quality of supply projects or programmes  Cuality of supply expenditure  ** Include distillational rows of secreted All other quality of supply projects or programmes  Cuality of supply rependiture  (res Capital contributions funding quality of supply  Quality of supply less capital contributions  (\$000)  ** Include distillational rows of revended All other registative and regulationy projects or programmes Legistative and regulationy projects or programmes Legistative and regulationy projects or programmes Legistative and regulationy less capital contributions  (\$000)  (\$000)  ** Include distillational rows of seconded All other registations funding legislative and regulationy Legislative and regulationy less capital contributions  (\$000)  (\$000)  ** Include distillational rows of seconded All other resibility, safety and environment projects or programmes Diher reliability, safety and environment projects or programmes Other reliability, safety and environment projects or programmes Other reliability, safety and environment less capital contributions  (\$000)  ** Include distillational rows of seconded All other resibility, safety and environment less capital contributions  (\$000)  ** Include distillational rows of seconded All other resibility, safety and environment less capital contributions  (\$000)  ** Include additional rows of seconded All other resibility, safety and environment ess capital contributions  Atypical expenditure  ** Include additional rows of seconded All other resibility as projects or programmes  (\$000)  ** Include additional rows of seconded All other resibility as projects or programmes  Atypical expenditure  ** Include additional rows of seconded All other resipical expenditure projects or programmes  Atypical expenditure  ** Include additional rows of seconder All other resipical expenditure projects or programmes  ** Include additional rows of seconder  ** Include additional rows o	5	Project or programme*	(\$000)	(\$000)
Install remote control switches  Install fire for the control switches  Install for the control switches  Install fire for	7	Install 11kV Dropout fuses spurs & services	108	
Install TNU-IT 13 10 V line	3	Replace Disconnectors	125	
* include additional rows if needed All other quality of supply projects or programmes Quality of supply exposition or recognitions (res) Capital contributions funding quality of supply Quality of supply less capital contributions  Sa(vii): Legislative and Regulatory Project or programme*  * include additional rows if needed All other regulative and regulatory projects or programmes Legislative and regulatory projects or programmes Legislative and regulatory septembers Legislative and regulatory Legislative and re				_
** Include additional rows if needed All other quality of supply expenditure Coultry of supply expenditure  ** Include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory projects or programmes Legislative and regulatory expenditure  ** Include additional rows if needed All other regulatory expenditure Reso Capital contributions funding legislative and regulatory Legislative and regulatory expenditure Reso Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  Ga(viii): Other Reliability, Safety and Environment Project or programme* Replace Ring Main Units Replace Ring Ma		Install TMU-HTI 110kV line	1,548	-
All other quality of supply projects or programmes Quality of supply projects or programmes (Solid): Seguital contributions funding quality of supply Seguity of supply less capital contributions  Ga(vii): Legislative and Regulatory  Polject or programme*  * Include additional rows if peeded All other regulative projects or programmes Legislative and regulatory expenditure  less Capital contributions funding legislative and regulatory Legislative and regulatory expenditure  less Capital contributions funding legislative and regulatory Legislative and regulatory expenditure  less Capital contributions funding legislative and regulatory Legislative and regulatory expenditure  Regulate two poles substructures Regulate regulations from if preeded All other resibility, safety and environment projects or programmes Other reliability, safety and environment less capital contributions  Ga(x): Non-Network Assets Routine expenditure  Project or programme*  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)  (5000)				]
Cuality of supply expenditure  (res Capital contributions norting quality of supply Quality of supply less capital contributions  (\$000)				1
Ites   Capital contributions funding quality of supply			51	2.400
Quality of supply less capital contributions  [2,1]  [5a(vii): Legislative and Regulatory  Project or programme*  * Include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory expenditure Legislative and regulatory superditure Legislative and regulatory superditure Legislative and regulatory less capital contributions  [5a(viii): Other Reliability, Safety and Environment Project or programme* [1]    Implice limit of the supply less capital contributions    Safety   Saf			12	2,190
Sa(vii): Legislative and Regulatory  Project or programme*  * Include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory project or programmes Sa(viii): Other Reliability, Safety and Environment  Project or programme*  Sa(viii): Other Reliability, Safety and Environment  Project or programme*  * include additional rows if needed All other resiability, safety and environment projects or programmes Other reliability, safety and environment tess capital contributions  * Include additional rows if needed Cother reliability, safety and environment tess capital contributions  * Sa  * Include additional rows if needed All other resiability, safety and environment tess capital contributions  * Sa  * Include additional rows if needed All other resiability, safety and environment tess capital contributions  * Include additional rows if needed All other routine expenditure  * Project or programme*  * Include additional rows if needed All other routine expenditure  * Project or programme*  * Include additional rows if needed All other routine expenditure  * Include additional rows if needed All other routine expenditure  * Include additional rows if needed All other stypical expenditure projects or programmes  * Atypical expenditure  * Include additional rows if needed All other stypical expenditure projects or programmes  * Include additional rows if needed All other stypical expenditure projects or programmes  * Include additional rows if needed All other stypical expenditure projects or programmes  * Include additional rows if needed All other stypical expenditure projects or programmes  * Include additional rows if needed All other expenditure projects or programmes  * Include additional rows if needed All other expenditure			12	2.470
Project or programme*   (\$000)   (\$000)		Quality of supply less capital contributions		2,178
* include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory expenditure  /* Jess Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  6a(viii): Other Reliability, Safety and Environment  /* Project or programme*  /* Replace Ring Main Units				
* include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory peoperature Legislative and regulatory spenditure  /* Iss Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  /* Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  /* Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  /* Replace Ring Malin Units:    Replace Ring Malin Units:		Project or programme*	(\$000)	(\$000)
* Include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory expenditure Legislative and regulatory expenditure Legislative and regulatory less capital contributions  6a(viii): Other Reliability, Safety and Environment Project or inogramme* Replace Ring Main Units  113  4 Include additional rows if needed All other reliability, safety and environment projects or programmes Other reliability, safety and environment perspects or programmes Other reliability, safety and environment less capital contributions  5a  6a(xi): Non-Network Assets Routine expenditure Project or inogramme*  (5000)  1 Include additional rows if needed All other routine expenditure Project or inogramme (5000)  1 Include additional rows if needed All other routine expenditure Project or inogramme (5000)  1 Include additional rows if needed All other routine expenditure Projects or programmes Routine expenditure Project or inogramme (5000)  1 Include additional rows if needed All other routine expenditure Projects or programmes Routine expenditure Project or inogramme (5000)  2 Include additional rows if needed All other routine expenditure Projects or programmes Atypical expenditure Project or inogramme (5000)  3 Include additional rows if needed All other atypical expenditure Projects or programmes Atypical expenditure Project or inogramme (5000)  4 Include additional rows if needed All other atypical expenditure projects or programmes Atypical expenditure				-
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* include additional rows if needed All other legislative and regulatory projects or programmes Legislative and regulatory expenditure Jess Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  6a(viii): Other Reliability, Safety and Environment  Project or programme* Replace Ring Main Units  * Include additional rows if needed All other reliability, safety and environment projects or programmes Other reliability, safety and environment expenditure Other reliability, safety and environment less capital contributions  6a(xii): Non-Network Assets Routine expenditure Project or programme*  All other routine expenditure  Atypical expenditure  Project or programme (5000)  * Include additional rows if needed All other routine expenditure  Atypical expenditure  Project or programme (5000)  * Include additional rows if needed All other routine expenditure  Atypical expenditure  Project or programme (5000)  * Include additional rows if needed All other routine expenditure projects or programmes  # Include additional rows if needed All other routine expenditure  Atypical expenditure  Atypical expenditure  Project or programme*    Cooks   Co				-
* include additional rows if needed All other reliability, safety and environment projects or programmes Less and additional rows if needed All other reliability, safety and environment  * include additional rows if needed All other reliability, safety and environment  * include additional rows if needed All other reliability, safety and environment expenditure  * include additional rows if needed All other reliability, safety and environment expenditure  * include additional rows if needed All other reliability, safety and environment expenditure  * include additional rows if needed All other reliability, safety and environment expenditure  * Souther expenditure  * Project or programme*  * (\$000)  * Include additional rows if needed  All other routine expenditure  * Project or programme*  * (\$000)  * Include additional rows if needed  All other routine expenditure  * Souther expenditure  * Souther expenditure  * Souther expenditure  * Include additional rows if needed  All other routine expenditure projects or programmes  * Atypical expenditure  * Include additional rows if needed  All other appical expenditure projects or programmes  * Atypical expenditure  * Souther expen				1
All other legislative and regulatory projects or programmes  Legislative and regulatory expenditure  less Capital contributions funding legislative and regulatory  Legislative and regulatory less capital contributions  Ga(viii): Other Reliability, Safety and Environment  Project or programme*  Replace two pole sub structures  Replace Ning Main Units  1133  All other reliability, safety and environment projects or programmes  All other reliability, safety and environment projects or programmes  Other reliability, safety and environment expenditure  less Capital contributions funding other reliability, safety and environment  Other reliability, safety and environment less capital contributions  Ga(ix): Non-Network Assets  Routine expenditure  Project or programme*  Atypical expenditure  Project or programme*  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  **include additional rows if needed  All other routine expenditure  Project or programme*  (\$000)  (\$000)  **include additional rows if needed  All other routine expenditure  Project or programme*  (\$000)  **include additional rows if needed  All other atypical expenditure  Project or programme*  Atypical expenditure  Atypical expenditure  **include additional rows if needed  All other atypical expenditure projects or programmes  Atypical expenditure  Atypical expenditure  Atypical expenditure projects or programmes  Atypical expenditure				J
Legislative and regulatory expenditure  Ales Capital contributions funding legislative and regulatory tegislative and regulatory (applicative and regulatory (applicative) rescapital contributions  Ga(viii): Other Reliability, Safety and Environment  Project or programme*  Replace two pole sub structures  **Include additional rows if needed  All other reliability, safety and environment expenditure  Assets  Capital contributions funding other reliability, safety and environment expenditure  Other reliability, safety and environment expenditure  Assets  Routine expenditure  Project or programme*  (\$000)  **Include additional rows if needed  All other routine expenditure  Project or programme*  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  **Include additional rows if needed  All other routine expenditure projects or programmes  Atypical expenditure  **Include additional rows if needed  All other alpical expenditure projects or programmes  Atypical expenditure  **Include additional rows if needed  All other alpical expenditure projects or programmes  Atypical expenditure				1
less Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions  6a(viii): Other Reliability, Safety and Environment  Project or programme*  * include additional rows if needed All other reliability, safety and environment projects or programmes  Other reliability, safety and environment projects or programmes  Other reliability, safety and environment essenditure  Sagital contributions funding other reliability, safety and environment Other reliability, safety and environment ess capital contributions  6a(ix): Non-Network Assets  Routine expenditure  Project or programme*  (\$000)  * include additional rows if needed All other routine expenditure  Project or programme*  (\$000)  * include additional rows if needed All other project or programme*  (\$000)  * include additional rows if needed All other appropriative  Project or programme*  (\$000)  * include additional rows if needed All other appropriative  Project or programme*  (\$000)  * include additional rows if needed All other appropriative  Atypical expenditure  Project or programme*  (\$000)  * include additional rows if needed All other appropriative projects or programmes Atypical expenditure				
Legislative and regulatory less capital contributions  6a(viii): Other Reliability, Safety and Environment  Project or programme*  (\$000)  (\$000)  Replace Ring Main Units  113  8				
6a(viii): Other Reliability, Safety and Environment  Project or programme*  Replace two pole sub structures Replace Ring Main Units  * include additional rows if needed All other reliability, safety and environment projects or programmes Other reliability, safety and environment expenditure // Ess Capital contributions funding other reliability, safety and environment Other reliability, safety and environment less capital contributions  5c  6a(ix): Non-Network Assets  Routine expenditure  Project or programme*  (5000)  * include additional rows if needed All other routine expenditure  Project or programme*  (5000)  * include additional rows if needed All other routine expenditure  Project or programme*  (5000)  * include additional rows if needed All other routine expenditure  Project or programme*  (5000)  * include additional rows if needed All other attypical expenditure  Project or programme*  (5000)  * include additional rows if needed All other attypical expenditure projects or programmes  Atypical expenditure  * include additional rows if needed All other attypical expenditure projects or programmes Atypical expenditure projects or programmes				_
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Replace Ring Main Units    It is include additional rows if needed		· -	T	]
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Other reliability, safety and environment expenditure    less   Capital contributions funding other reliability, safety and environment   24   50     Cother reliability, safety and environment less capital contributions   50     Cother reliability, safety and environment less capital contributions   50     Cother reliability, safety and environment less capital contributions   50     Cother reliability, safety and environment less capital contributions   50     Cother reliability, safety and environment   50     Cother reliability			53	1
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6a(ix): Non-Network Assets Routine expenditure  Project or programme*  (\$000) (\$000)  * include additional rows if needed All other routine expenditure  Atypical expenditure  Project or programme*  (\$000) (\$000)  (\$000)  (\$000)  * include additional rows if needed All other atypical expenditure  Atypical expenditure projects or programmes  Atypical expenditure  Atypical expenditure projects or programmes  Atypical expenditure	)	Other reliability, safety and environment less capital contributions		509
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Project or programme*  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)  (\$000)	·	Routine expenditure		90
* include additional rows if needed  All other atypical expenditure projects or programmes  Atypical expenditure	3	Atypical expenditure		
* include additional rows if needed  All other atypical expenditure projects or programmes  Atypical expenditure	1	Project or programme*	(\$000)	(\$000)
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All other atypical expenditure projects or programmes  Atypical expenditure  Atypical expenditure	9			]
2 Atypical expenditure	)	* include additional rows if needed		_
3	!		-	
	?	Atypical expenditure		
4 Non-network assets expenditure	3			
	1	Non-network assets expenditure		90

Company Name For Year Ended Waipa Networks Limited 31 March 2014

# SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operating expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operating expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch	ref I		
7	6b(i): Operational Expenditure	(\$000)	(\$000)
8	Service interruptions and emergencies	650	
9	Vegetation management	449	
10	Routine and corrective maintenance and inspection	618	
11	Asset replacement and renewal	234	
12	Network opex		1,951
13	System operations and network support	901	
14	Business support	1,696	
15	Non-network opex	L	2,597
16		-	
17	Operational expenditure	L	4,548
18	6b(ii): Subcomponents of Operational Expenditure (where known)	-	
19	Energy efficiency and demand side management, reduction of energy losses	<u> </u>	99
20	Direct billing*		N/A
21	Research and development		N/A
22	Insurance		-
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

988

3,475

557

4,032

7,735

882

8,617

# **SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE**

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

cch	rof
scri	rei

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44

7	7(i): Revenue	Targe	t (\$000) ¹	Actual (\$000)	% variance
8	Line charge revenue		23,192	22,054	(5%)
9	7(ii): Expenditure on Assets	Foreca	st (\$000) ²	Actual (\$000)	% variance
10	Consumer connection		1,643	2,662	62%
11	System growth		195	54	(72%)
12	Asset replacement and renewal		877	473	(46%)

Reliability, safety and environment:
Quality of supply
Legislative and regulatory
Other reliability, safety and environment
Total reliability, safety and environment

Total reliability, safety and environment
xpenditure on network assets

Non-network capex Expenditure on assets

Asset relocations

Service interruptions and emergencies

Vegetation management

Routine and corrective maintenance and inspection

Asset replacement and renewal

#### Network opex

System operations and network support Business support

Non-network opex
Operational expenditure

572	650	14%
501	449	(10%)
711	618	(13%)
319	234	(27%)
2,103	1,951	(7%)
1,107	901	(19%)
1,658	1,696	2%
2,765	2,597	(6%)
4,868	4,548	(7%)
	•	•

1,795

2,190

533

2,723

7,707

7,797

90

82%

(37%)

(4%)

(32%)

(0%)

(90%)

(10%)

#### 7(iv): Subcomponents of Expenditure on Assets (where known)

Energy efficiency and demand side management, reduction of energy losses Overhead to underground conversion

Research and development

-	-	-
195	222	14%
-	-	-

#### 7(v): Subcomponents of Operational Expenditure (where known)

Energy efficiency and demand side management, reduction of energy losses
Direct billing
Research and development
Insurance

-	99	-
-	N/A	-
-	N/A	-
-	-	-

 $<sup>1 \ \</sup>textit{From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of the Determination}$ 

Waipa Networks Limited Company Name 31 March 2014 For Year Ended Network / Sub-Network Name Waipa Networks **SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES** This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to 8(i): Billed Quantities by Price Component 11 Billed quantities by price component Fixed Daily Capacity Monthly Price compon Combined Controlled StreetLights Controlled 8 Day Night Transforme 12 Charge Charge charges Add extra Consumer type or Standard or non- Average no. delivered to columns for standard of ICPs in ICPs in Unit charging basis (eg, days, kW of types (eg. kVA of additional billed kWh kWh kWh kWh kWh kWh kWh Days Consumer group name or residential. consumer group disclosure year demand, kVA of capacity, etc.) capacity auantities by price category code commercial etc.) (specify) rice component as necessary Domestic Residential Standard 18.842 144,144 43.199.762 77,393,764 22,584,330 683,783 170,246 111,847 16 Non Domestic Commercial Standard 5.241 107,950 85,643,115 14,001,512 875.077 3,938,771 1.655.256 1.835.855 17 Unmetered Commercial Standard 89 18 400V Capacity Contract Standard 25 20.576 20,378,223 133.267 64.241 Commercial 11KV Standard 10 854 935 3 708 296 19 Commercial 14 563 11KV 60.110.904 20 Commercial Non-standard 60.111 21 22 23 24 25 Add extra rows for additional consumer groups or price category codes as necessary 26 Standard consumer totals 287,233 43,199,762 183,415,102 36,585,842 1,558,860 15,097,219 5.539.640 1.835.855 27 60 111 60 110 904 Non-standard consumer totals 28 Total for all consumers 347,344 43.199.762 243.526.006 36.585.842 1.558.860 15.097.219 29 8(ii): Line Charge Revenues (\$000) by Price Component Line charge revenues (\$000) by price component Fixed Daily Capacity Monthly Combined Controlled Controlled 8 Night StreetLights Transforme Price componen Day 41 Charge Add extra Total line columns for Consumer type or Standard or non-Total charge Notional Total transmission Rate (eg, additional line types (eg, standard revenue in revenue distribution line charge \$/day, \$/kWh, charge revenues residential. consumer group line charge revenue (if by price price category code commercial etc.) (specify) applicable) revenue available) component as necessary Residential Standard \$10,621 \$10,621 \$3,076 \$6,129 \$357 \$7 \$1 \$1,032 Non Domestic Commercial Standard \$8,175 \$8,175 \$6,770 \$221 \$9 \$448 \$16 \$138 \$573 Unmetered Commercial Standard \$33 \$33 \$33 47 400V Capacity Contract Commercial Standard \$1,374 \$1,374 \$976 \$9 \$388 11KV \$495 \$270 \$34 48 Commercial Standard \$856 \$856 \$55 \$2 11KV Commercial Non-standard \$995 \$995 \$995 49 50 51 52 53 54 Add extra rows for additional consumer groups or price category codes as necessary 55 \$21,059 \$21,059 \$3,076 \$13,875 \$578 \$16 \$73 \$1,638 \$658 \$34 Standard consumer totals \$971 \$138 56 \$991 Non-standard consumer totals \$995 \$99 57 \$22.054 \$22,054 Total for all consumers 58 59 8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Company Name
For Year Ended
Network / Sub-network Name

Waipa Networks Limited
31 March 2014
Waipa Networks

# **SCHEDULE 9a: ASSET REGISTER**

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch	ref

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy 1–4
9	All	Overhead Line	Concrete poles / steel structure	No.	20,210	20,283	73	4
10	All	Overhead Line	Wood poles	No.	1,803	1,757	(46)	4
11	All	Overhead Line	Other pole types	No.	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	-	N/A
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	-	-	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	-	-	-	N/A
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	_	-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	-	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	_	_	_	N/A
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	_	_	_	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		_		N/A
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		_		N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.		_		N/A
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,225	1,229	3	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	1,223			N/A
37	HV	Distribution Line	SWER conductor	km		_		N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	105	115	11	4
39	HV	Distribution Cable	Distribution UG PILC	km	1	113	(0)	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	1		(0)	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	90	106	16	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	30	100	10	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4,945	4,918	(27)	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	4,343	4,518	(27)	N/A
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	68	76	8	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,713	2,714	1	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	605	657	52	4
48	HV	Distribution Transformer	Voltage regulators	No.	46	47	1	4
49	HV	Distribution Substations		No.	40	47	1	N/A
50	LV	LV Line	Ground Mounted Substation Housing LV OH Conductor	km	499	500	0	4
	LV				241	254		4
51 52	LV	LV Cable	LV UG Cable LV OH/UG Streetlight circuit	km km	127	130	13	4
53	LV	LV Street lighting Connections	OH/UG consumer service connections	кт No.	23,969	24,388	419	4
			•		23,909	24,388	419	N/A
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1	- 1	-	N/A 4
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	
56	All	Capacitor Banks	Capacitors including controls	No	-	- 3	-	N/A
57	All	Load Control	Centralised plant	Lot	17.560		100	4
58	All	Load Control	Relays	No	17,560	17,759	199	3
59	All	Civils	Cable Tunnels	km		-	-	N/A

Company Name	Waipa Networks Limited
For Year Ended	31 March 2014
Network / Sub-network Name	Waipa Networks

#### SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

9 Volta 10 All 11 All 11 All 12 All 13 Hv 14 HV 14 HV 19 HV 19 HV 22 HV 22 HV 24 HV 24 HV 25 HV 26 HV 27 HV 28 HV 29 HV 31 HV 46 HV 47 HV 48 HV	e Asset category Overhead Line Overhead Line Overhead Line Subtransmission Line Subtransmission Line Subtransmission Line Subtransmission Cable Subtransmi	Asset class Concrete potes / steel structure Wood poles Other pole types Subtransmission OH 10 Up to 66kV conductor Subtransmission OH 10 Up to 66kV (XLPE) Subtransmission UE up to 66kV (XLPE) Subtransmission UE up to 66kV (XLPE) Subtransmission UE up to 66kV (IRE) Subtransmission UE up to 66kV (IRE) Subtransmission UE up to 66kV (IRE) Subtransmission UE 110 UP (IRE) Subtransmission Submarine cable Zone substations up to 66kV	Units pre No. No. No. km km km km km km km	1940 -1949 21			3,584	1980 -1989 8,884 521		<b>2000</b>	2001 201 2	<b>2002</b> 205	2003 2004 291 2: 3	2005	2006 215	2007		2009 253	<b>2010</b> 299	2011 201 262 2	12 2013 226 23		2015 20	016 2017	No. with Age 7 unknown	assets at	No. with default Da dates	Data accuracy (1–4)
10 All 11	Overhead Line Overhead Line Vorehead Line Subtransmission Line Subtransmission Line Subtransmission Cable Subt	Concrete poles / steel structure Wood poles Other pole types Subtransmission OH to 16 664V conductor Subtransmission OH 110kV+ conductor Subtransmission UG up to 666V (XILPE) Subtransmission UG up to 666V (XILPE) Subtransmission UG up to 666V (GII pressurised) Subtransmission UG up to 66V (PILC) Subtransmission UG up to 66V (PILC) Subtransmission UG 110kV+ (XILPE) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission uG 110kV+ (PILC)	No. No. No. km km km km km km km	1940 -1949	- <b>1959</b>	<b>-1969</b>	<b>-1979</b>	<b>-1989</b> 8,884	<b>-1999</b> 2,593	192	201	205	291 2	8 272			260		299				2015 20	16 2017		year end		
10 All 11	Overhead Line Overhead Line Vorehead Line Subtransmission Line Subtransmission Line Subtransmission Cable Subt	Concrete poles / steel structure Wood poles Other pole types Subtransmission OH to 16 664V conductor Subtransmission OH 110kV+ conductor Subtransmission UG up to 666V (XILPE) Subtransmission UG up to 666V (XILPE) Subtransmission UG up to 666V (GII pressurised) Subtransmission UG up to 66V (PILC) Subtransmission UG up to 66V (PILC) Subtransmission UG 110kV+ (XILPE) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (GIAP pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission uG 110kV+ (PILC)	No. No. No. km km km km km km km		- 13	1,754	3,584	8,884	2,593	192	201	205	291 2	8 272			260		299									
11 All 12 All 13 HV 16 HV 16 HV 17 HV 16 HV 17 HV 16 HV 17 HV 16 HV 17 HV 18 HV 19 HV 16 HV 17 HV 18 HV 17 HV 18 HV 17 HV 18 HV 17 HV 18 HV 16 H	Overhead Line Overhead Line Subtransmission Line Subtransmission Line Subtransmission Cable Subtransmission Ca	Wood poles Other pole types Subtransmission OH up to 66kV conductor Subtransmission OH 10kV+ conductor Subtransmission UB up to 66kV (XUEP) Subtransmission UB up to 66kV (XUEP) Subtransmission UB up to 66kV (XUEP) Subtransmission UB up to 66kV (Rus pressurised) Subtransmission UB up to 66kV (PICL) Subtransmission UB 10kV+ (XUEP) Subtransmission UB 10kV+ (XUEP) Subtransmission UB 10kV+ (XUEP) Subtransmission UB 10kV+ (Rus Pressurised) Subtransmission UB 10kV+ (PILC) Subtransmission UB 10kV+ (PILC)	No. km	-											5													4
12 Ail HV 133 HV 155 HV 16 HV 17 HV 22 HV 22 HV 27 HV 27 HV 33 HV 33 HV 34 HV 45 HV 47 HV 47 HV 47 HV 48 HV 47 HV 47 HV 174 HV 48 HV 47 HV 15 HV 18 HV 47 HV 47 HV 48 HV 47 HV 47 HV 48 HV 47 HV 15 HV 15 HV 47 HV 48 HV 47 HV 47 HV 48 HV 49 HV 15 HV 15 HV 16 HV 17 HV 47 HV 48 HV 47 HV 47 HV 47 HV 47 HV 47 HV 48 HV 49 HV 15 HV 16 HV 17 HV 17 HV 15 HV 17 HV 17 HV 17 HV 17 HV 17 HV 16 HV 17 HV 17 HV 16 HV 17 HV 17 HV 16 HV 17 HV 17 HV 17 HV 17 HV 16 HV 17 HV	Overhead Line Subtransmission Line Subtransmission Line Subtransmission Cable	Other pole types Subtransmission OH up to 666V conductor Subtransmission OH 10kV+ conductor Subtransmission UE up to 666V (XLPE) Subtransmission UE up to 666V (XLPE) Subtransmission UE up to 666V (Glap ressurised) Subtransmission UE up to 666V (PILC) Subtransmission UE 110kV+ (XLPE) Subtransmission UE 110kV+ (Supressurised) Subtransmission UE 110kV+ (Glap ressurised) Subtransmission UE 110kV+ (Glap ressurised) Subtransmission UE 110kV+ (Clap ressurised) Subtransmission UE 110kV+ (PILC) Subtransmission Submarine cable	km km km km km km km	-						-	-	-	-				1	1	45	_	28					1.757		3
13 HV 14 HV 15 HV 16 HV 18 HV 19 HV 20 HV 22 HV 23 HV 25 HV 25 HV 27 HV 30 HV 30 HV 31 HV 45 HV 46 HV 47 HV 48 HV 47 HV 48 HV 47 HV 48 HV 49 HV	Subtransmission Line Subtransmission Cable Zone Subtatation Buildings	Subtransmission OH to the GAV conductor Subtransmission OH 10 to 16 GAV (DUF) Subtransmission UG up to 6 GAV (DUF) Subtransmission UG up to 6 GAV (OII pressurised) Subtransmission UG up to 6 GAV (GIS pressurised) Subtransmission UG up to 6 GAV (PILC) Subtransmission UG 10 LOV-V (DUF) Subtransmission UG 110 LOV-V (DUF) Subtransmission UG 110 LOV-V (GIS pressurised) Subtransmission UG 110 LOV-V (GIS pressurised) Subtransmission UG 110 LOV-V (GIS pressurised) Subtransmission UG 110 LOV-V (PILC) Subtransmission UG 110 LOV-V (PILC)	km km km km km km	-						-	-				-	-		-		-	-					-,,,,,		N/A
1d HV 15 HV 11 HV 127 HV 19 HV 221 HV 221 HV 222 HV 24 HV 26 HV 26 HV 27 HV 30 HV 33 HV 33 HV 46 HV 45 HV 46 HV 48 HV 48 HV 48 HV 49 HV	Subtransmission Line Subtransmission Cable Zone Subtransmission Cable Zone Subtration Buildings	Subtransmission OH 110KV+ conductor Subtransmission UG up to 66kV (XLPE) Subtransmission UG up to 66kV (Oli pressurised) Subtransmission UG up to 66kV (Oli pressurised) Subtransmission UG up to 66kV (PluC) Subtransmission UG 110KV+ (XLPE) Subtransmission UG 110KV+ (XLPE) Subtransmission UG 110KV+ (Gas Pressurised) Subtransmission UG 110KV+ (PLC) Subtransmission UG 110KV+ (PLC) Subtransmission UG 110KV+ (PLC)	km km km km km	-			 			-		-	-		-	-	-	-	-	-	-					-		N/A
15 HV 16 HV 17 HV 20 HV 20 HV 22 HV 23 HV 25 HV 25 HV 25 HV 30 HV 31 HV 30 HV 31 HV 46 HV 47 HV 48 HV 48 HV 49 HV	Subtransmission Cable Zubtransmission Cable Zubtransmission Cable Zone Subtatation Buildings Zone Subtatation Buildings	Subtransmission UG up to 66kV (XLPE) Subtransmission UG up to 66kV (Oil pressurised) Subtransmission UG up to 66kV (Oil pressurised) Subtransmission UG up to 66kV (PILC) Subtransmission UG 110kV+ (XLPE) Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission UG 110kV+ (PILC)	km km km km	- - - -							-	-	-		-	-	-	-	-	-	-					-		N/A
17 HV 18 HV 19 HV 20 HV 22 HV 22 HV 22 HV 22 HV 25 HV 25 HV 25 HV 27 HV 31 HV 32 HV 30 HV 31 HV 32 HV 44 HV 45 HV 47 HV 48 HV 47 HV 48 HV	Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission US up to 66W (Oil pressurised) Subtransmission Ug up to 66W (Gas pressurised) Subtransmission UG up to 66W (PIC) Subtransmission UG 110W+ (QLP) Subtransmission UG 110W+ (QLP) Subtransmission UG 110W+ (Gas Pressurised) Subtransmission UG 110W+ (Gas Pressurised) Subtransmission UG 110W+ (PICL) Subtransmission uG 110W+ (PICL)	km km km	-							-	-	-		-	-	-	-	-	-	-					-		N/A
17 HV 18 HV 19 HV 20 HV 22 HV 22 HV 22 HV 22 HV 25 HV 25 HV 25 HV 27 HV 31 HV 32 HV 30 HV 31 HV 32 HV 44 HV 45 HV 47 HV 48 HV 47 HV 48 HV	Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG up to 66kV (Gas pressurised) Subtransmission UG up to 66kV (PILC) Subtransmission UG 110kV+ (VLPE) Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Gas Pressurised) Subtransmission UG 110kV+ (Clus Pressurised) Subtransmission UG 110kV+ (Clus Pressurised) Subtransmission UG 110kV+ (Clus Pressurised)	km km km	-	-					-	-	-	-		-	-	-	-	-	-	-					-		N/A
18 HV 19 HV 20 HV 21 HV 221 HV 22 HV 24 HV 26 HV 26 HV 27 HV 28 HV 30 HV 31 HV 32 HV 34 HV 45 HV 47 HV 48 HV	Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG up to 66kV (PILC) Subtransmission UG 110kV+ (XUEF) Subtransmission UG 110kV+ (OII pressurised) Subtransmission UG 110kV+ (OII pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission UG 110kV+ (PILC)	km km	-			-			-	-	-	-		-	-	-	-	-	-	-					-		N/A
19 HV 20 HV 21 HW 22 HV 22 HV 24 HV 24 HV 25 HV 27 HV 29 HV 30 HV 31 HV 32 HV 32 HV 32 HV 45 HV 47 HV 48 HV	Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG 110kV+ (KLPE) Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Gas Pressurised) Subtransmission UG 110kV+ (FULC) Subtransmission ubmarine cable	km km	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
20 HV 21 HV 22 HV 23 HV 24 HV 26 HV 26 HV 27 HV 28 HV 31 HV 31 HV 32 HV 34 HV 34 HV 45 HV 46 HV 47 HV 48 HV 48 HV	Subtransmission Cable Subtransmission Cable Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG 110kV+ (Oil pressurised) Subtransmission UG 110kV+ (Gas Pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission submarine cable								-	-	-	-		-	-	-	-	-	-	-					-		N/A
21 HV 22 HV 23 HV 24 HV 25 HV 27 HV 27 HV 28 HV 30 HV 31 HV 32 HV 33 HV 45 HV 47 HV 48 HV 48 HV	Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG 110kV+ (Gas Pressurised) Subtransmission UG 110kV+ (PILC) Subtransmission submarine cable	km	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
22 HV 23 HV 24 HV 25 HV 26 HV 27 HV 28 HV 30 HV 31 HV 32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV	Subtransmission Cable Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission UG 110kV+ (PILC) Subtransmission submarine cable		_						_		-	-		-	-	-	-	-	-	-							N/A
23 HV 24 HV 25 HV 26 HV 27 HV 28 HV 30 HV 31 HV 32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV	Subtransmission Cable Zone substation Buildings Zone substation Buildings	Subtransmission submarine cable	km	_						_		-	-		-	-	-	-	-	-	-							N/A
24 HV 25 HV 26 HV 27 HV 28 HV 29 HV 30 HV 31 HV 32 HV 33 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation Buildings Zone substation Buildings		km										_			_	_	_	_	_	_							N/A
25 HV 26 HV 27 HV 28 HV 29 HV 30 HV 31 HV 32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV	Zone substation Buildings		No.	_			1 :		.1				_							_							-+	N/A
26 HV 27 HV 28 HV 29 HV 30 HV 31 HV 32 HV 33 HV 45 HV 46 HV 47 HV 48 HV 49 HV		Zone substations 110kV+	No.				1 :														_	1 1					-	N/A
27 HV 28 HV 29 HV 30 HV 31 HV 32 HV 33 HV 45 HV 46 HV 47 HV 48 HV 49 HV		50/66/110kV CB (Indoor)	No.				1									-			-			1					-	N/A
28 HV 29 HV 30 HV 31 HV 32 HV 33 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	50/66/110kV CB (Niddor)	No.				1									-			-			1					-	N/A
29 HV 30 HV 31 HV 32 HV 33 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	1		-				_	-		1		-	-		-	-	-	1					-+	N/A
30 HV 31 HV 32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV 49 HV	-	33kV Switch (Ground Mounted)	No.		1 -		-				-	-	-	-		-	-	-		-	-1	-					-+	N/A
31 HV 32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	33kV SWITCH (Pole Mounted) 33kV RMU	No.	_	-					-	-	-	-	-	-	-	-	-	-	-	-	-				-	+	N/A N/A
32 HV 33 HV 34 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear			-1-	-				-	-	-	-	-	-	-	-	-	-		-	-	-					-+	N/A N/A
33 HV 34 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-					-	-	-	-	-	-	-	-		-	-	-	-				-	-+	
34 HV 45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-		-			-	-	-	-	-	-	-	-	-	-	-	-					-	-+	N/A
45 HV 46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-						-	-	-	-		-	-	-	-	-	-	-					-	+	N/A
46 HV 47 HV 48 HV 49 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-						-	-	-	-		-	-	-	-	-	-	-					-	+	N/A
47 HV 48 HV 49 HV	Zone Substation Transformer	Zone Substation Transformers	No.	-						-	-	-	-		-	-	-	-	-	-	-					-	+	N/A
48 HV 49 HV	Distribution Line	Distribution OH Open Wire Conductor	km	1		. 6	5 50	944	209	3	3	0	6	2 0	1	0	0	1	1	-	0					1,229	+	3
49 HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
	Distribution Line	SWER conductor	km	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
50 HV	Distribution Cable	Distribution UG XLPE or PVC	km	-		. 3	3 8	19		8	3	2	3	6 8	14	8	,	4	2	1	1	1				115		4
	Distribution Cable	Distribution UG PILC	km	-		. 1	1 0	0	0	-	-	-	-		-	-	0	-	-	-	-					1		4
51 HV	Distribution Cable	Distribution Submarine Cable	km	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
52 HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	-			- 6	2	. 2	-	-	-	-	9 6	5	8	8	6	14	13	14 1	-				106		4
53 HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
54 HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1 1	12 123	359	1,259	613	448	49	113	97	164 1	3 171	173	162	159	147	136	176	178 20	45				4,918		3
55 HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-						-	-	-	-		-	-	-	-	-	-	-					-		N/A
56 HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	-						-	-	-	1	6 8	10	5	13	8	4	4	7	1				76		4
57 HV	Distribution Transformer	Pole Mounted Transformer	No.	1	- 56	286	332	534	447	51	64	84	71	4 97	104	52	123	59	51	84	69 7	1 1				2,714		4
58 HV	Distribution Transformer	Ground Mounted Transformer	No.	-	- 1	6	5 55	83	58	19	20	10	19	1 47	29	44	39	43	29	50	41 4	3				657		4
59 HV	Distribution Transformer	Voltage regulators	No.	-			- 5	2	. 4	2	6	5	5	3 3	9		-	-	3		-					47		4
60 HV	Distribution Substations	Ground Mounted Substation Housing	No.	-					-	-	-		-	-	-	-	-	-	-	-	-					-		N/A
61 LV	LV Line	LV OH Conductor	km	0		- 1	1 19	411	. 68	1			0	0 0	I		-				0	) -				500		3
62 LV	LV Cable	LV UG Cable	km	-		- 4	1 33	49	43	6	4	3	7	1 15	12	14	16	8	5	5	5 1	3 1				254		4
63 LV	LV Street lighting	LV OH/UG Streetlight circuit	km	0	-	. 1	1 16	69	16	2	0	0	0	1 5	3	4	5	2	2	0	0	3 1				130		3
64 LV	Connections	OH/UG consumer service connections	No.	5 7	77 981	4,168	5,062	5,031	3,045	308	284	327	438 4	10 537	568	619	452	375	371	352	377 48	83				24,388		3
65 All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-				.,		- 1	-	-			-	-	-	-	-	-	-					-		N/A
66 All		SCADA and communications equipment operating as a single system	Lot	-							_	-	-	- 1	-	-	-	-	-	-	-					1		4
67 All	SCADA and communications	Capacitors including controls	No	-								-	-		-	-	-	-		-	-							N/A
68 All	SCADA and communications Capacitor Banks	Centralised plant	Lot			1	. 1			1	1	_	_				_			_	_					2		4
69 All	Capacitor Banks	Relays	No.	3 1	19 156	491	1 360	272	267	4	28	3,054	2,715 1,3	1 228	239	254	401	1.744	1,314	1,269 1,7	772 1,45	357				17.759	-	
70 All			km	3 1	130	491	300	2/2	207																			

Company Name
For Year Ended
Network / Sub-network Name

Waipa Networks Limited
31 March 2014
Waipa Networks

# SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch r	ef .			
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	-	-	-
13	33kV	-	-	-
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	1,229	116	1,345
17	Low voltage (< 1kV)	500	254	754
18	Total circuit length (for supply)	1,729	371	2,100
19	ŗ			
20	Dedicated street lighting circuit length (km)	68	63	130
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				
23	Overhead signification to have the bound in the construction of th	Cinavit lanath (lun)	(% of total overhead length)	
23	Overhead circuit length by terrain (at year end)  Urban		1	
		216	12%	
25	Rural	1,433	83%	
26	Remote only	-	-	
27	Rugged only	80	5%	
28	Remote and rugged	-	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	1,729	100%	
31			10/ 1	
32		Circuit length (km)	(% of total circuit length)	
33	Γ	160	8%	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	160	l	
			(% of total	
34	Γ		overhead length)	
35	Overhead circuit requiring vegetation management	1,229	71%	

# **SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS**

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

	Lagrange #	Number of ICP	•
3	Location *	served	(\$000)
9	N/A		
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1			
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,			
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		<del></del>	
		<del></del>	

Waipa Schedules 1-to-10 v3.0 Final.xlsx

**Waipa Networks Limited** Company Name 31 March 2014 For Year Ended **Waipa Networks** Network / Sub-network Name **SCHEDULE 9e: REPORT ON NETWORK DEMAND** This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed). sch ref 9e(i): Consumer Connections 8 9 Number of ICPs connected in year by consumer type Number of connections (ICPs) 10 Consumer types defined by EDB\* 11 Domestic 12 Non Domestic 99 13 Unmetered 6 14 11kV 15 include additional rows if needed 16 522 **Connections total** 17 18 Distributed generation 19 20 Number of connections made in year 17 connections MVA 21 Capacity of distributed generation installed in year 9e(ii): System Demand 22 23 24 Demand at time of maximum coincident Maximum coincident system demand demand (MW) 25 26 **GXP** demand 68 27 Distributed generation output at HV and above 28 Maximum coincident system demand 68 29 Net transfers to (from) other EDBs at HV and above 68 30 Demand on system for supply to consumers' connection points Energy (GWh) Energy (GWh) **Electricity volumes carried** 31 32 Electricity supplied from GXPs 370 33 less Electricity exports to GXPs 34 plus Electricity supplied from distributed generation 35 Net electricity supplied to (from) other EDBs 1 Electricity entering system for supply to consumers' connection points 370 36 37 less Total energy delivered to ICPs 347 38 **Electricity losses (loss ratio)** 23 6.1% 39 Load factor 0.62 40 41 9e(iii): Transformer Capacity (MVA) 42 225 43 Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned) 49 45 Total distribution transformer capacity 273 46 47 Zone substation transformer capacity N/A

Company Name For Year Ended Network / Sub-network Name

34

36.3

87.1

369.3

1.8

123.40

limit

SAIDI

5.7

20.6

0.5

12.2

27.8

17.7

SAIDI

Waipa Networks Limited 31 March 2014 Waipa Networks

#### SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination),

and so is subject to the assurance report required by section 2.8. 10(i): Interruptions Number of Interruptions by class interruptions 10 Class A (planned interruptions by Transpower) 11 Class B (planned interruptions on the network) 78 12 Class C (unplanned interruptions on the network) 129 13 Class D (unplanned interruptions by Transpower) Class E (unplanned interruptions of EDB owned generation) 14 15 Class F (unplanned interruptions of generation owned by others) Class G (unplanned interruptions caused by another disclosing entity) 17 Class H (planned interruptions caused by another disclosing entity) 18 Class I (interruptions caused by parties not included above) 19 Total 215 20 21 Interruption restoration 22 Class C interruptions restored within 95 24 SAIFI and SAIDI by class SAIFI 25 Class A (planned interruptions by Transpower) 26 Class B (planned interruptions on the network) 0.14 27 Class C (unplanned interruptions on the network) 1.73 28 Class D (unplanned interruptions by Transpower) 0.6 Class E (unplanned interruptions of EDB owned generation) 30 Class F (unplanned interruptions of generation owned by others) 31 Class G (unplanned interruptions caused by another disclosing entity) 32 Class H (planned interruptions caused by another disclosing entity) 33 Class I (interruptions caused by parties not included above) 0.05 34 Total 35 36 Normalised SAIFI and SAIDI Normalised SAIFI Normalised SAIDI 37 Classes B & C (interruptions on the network) 1.87 38 SAIFI reliability SAIDI reliability Quality path normalised reliability limit 39 limit 40 SAIFI and SAIDI limits applicable to disclosure year \* not applicable to exempt EDBs 41 10(ii): Class C Interruptions and Duration by Cause 42 43 44 SAIFI Cause 45 Lightning 0.29 46 Vegetation 0.33 47 Adverse weather 0.04 Adverse environment 49 Third party interference 0.16 50 Wildlife 51 Human error 0.14 52 Defective equipment 0.38 53 Cause unknown 0.39 10(iii): Class B Interruptions and Duration by Main Equipment Involved 62 63 64 Main equipment involved SAIFI 65 Subtransmission lines 66 Subtransmission cables 67 68 69 71 10(i 72 73 74 75 76

Subtransmission other	-	_
Distribution lines (excluding LV)	0.10	26.0
Distribution cables (excluding LV)	0.00	0.3
Distribution other (excluding LV)	0.04	10.1
10(iv): Class C Interruptions and Duration by Main Equipment Involved		
Main equipment involved	SAIFI	SAIDI
Subtransmission lines	-	-
Subtransmission lines Subtransmission cables	-	=
	<u> </u>	- - -
Subtransmission cables	- - 1.39	- - - 65.6
Subtransmission cables Subtransmission other	- - 1.39 0.00	- - 65.6 0.1
Subtransmission cables Subtransmission other Distribution lines (excluding LV)		

Main equipment involved	
mani equipment involved	

Subtransmission lines Subtransmission cables Subtransmission other Distribution lines (excluding LV) Distribution cables (excluding LV) Distribution other (excluding LV) Total

Number of Faults	Circuit length (km)
-	-
-	-
-	
112	1,229
2	116
15	
129	
	-

Fault rate (faults per 100km)		
-	ĺ	
-	l	
9.11	l	
1.72	l	

77 78 79

80 81 82

83

84

85

86

87