EDB Information Disclosure Requirements

Information Templates

for

Schedules 1–10

Company Name	MainPower New Zealand Limited
Disclosure Date	31 March 2017
Disclosure Year (year ended)	31 March 2017

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

Table of Contents

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

Company Name and Dates

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.
The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).
The cell C8 entry (company name) is used in the template title blocks.
Dates should be entered in day/month/year order (Example -"1 April 2013").

Data Entry Cells and Calculated Cells

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.
In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

Validation Settings on Data Entry Cells

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

Conditional Formatting Settings on Data Entry Cells

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).
Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).
Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).
Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.
Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

Inserting Additional Rows and Columns

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.
Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.
Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.
The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

Disclosures by Sub-Network

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 24 March 2015). They provide a common reference between the rows in the determination and the template.

Description of Calculation References

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

Worksheet Completion Sequence

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.
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

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	27,218	433	144,607	3,248	30,273
Network	8,564	136	45,500	1,022	9,525
Non-network	18,654	296	99,107	2,226	20,748
Expenditure on assets	25,009	397	132,871	2,984	27,816
Network	23,920	380	127,085	2,854	26,605
Non-network	1,089	17	5,786	130	1,211

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	89,783	1,427
Standard consumer line charge revenue	97,599	1,387
Non-standard consumer line charge revenue	23,754	1,496,000

1(iii): Service intensity measures

Demand density	22	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	119	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	8	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	15,893	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	16,196	29.77%
Pass-through and recoverable costs excluding financial incentives and wash-ups	14,905	27.40%
Total depreciation	12,198	22.42%
Total revaluations	5,350	9.83%
Regulatory tax allowance	–	–
Regulatory profit/(loss) including financial incentives and wash-ups	16,456	30.25%
Total regulatory income	54,405	

1(v): Reliability

Interruption rate	15.22	*Interruptions per 100 circuit km*

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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

2(i): Return on Investment

	CY-2	CY-1	Current Year CY
	31 Mar 15	31 Mar 16	31 Mar 17
ROI – comparable to a post tax WACC	%	%	%
Reflecting all revenue earned	6.45%	7.22%	6.27%
Excluding revenue earned from financial incentives	6.13%	7.22%	6.27%
Excluding revenue earned from financial incentives and wash-ups	6.13%	7.22%	6.27%
Mid-point estimate of post tax WACC	6.10%	5.37%	4.77%
25th percentile estimate	5.39%	4.66%	4.05%
75th percentile estimate	6.82%	6.09%	5.48%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	8.08%	7.87%	6.81%
Excluding revenue earned from financial incentives	7.74%	7.87%	6.81%
Excluding revenue earned from financial incentives and wash-ups	7.74%	7.87%	6.81%
WACC rate used to set regulatory price path	N/A	N/A	N/A
Mid-point estimate of vanilla WACC	6.89%	6.02%	5.31%
25th percentile estimate	6.17%	5.30%	4.59%
75th percentile estimate	7.60%	6.74%	6.03%

2(ii): Information Supporting the ROI

		($000)		
	Total opening RAB value	247,342		
plus	Opening deferred tax	(5,426)		
Opening RIV			241,916	
Line charge revenue			53,426	
	Expenses cash outflow	31,101		
add	Assets commissioned	13,540		
less	Asset disposals	385		
add	Tax payments	(651)		
less	Other regulated income	979		
Mid-year net cash outflows			42,626	
Term credit spread differential allowance			–	
	Total closing RAB value	253,649		
less	Adjustment resulting from asset allocation	0		
less	Lost and found assets adjustment	–		
plus	Closing deferred tax	(6,077)		
Closing RIV			247,572	
ROI – comparable to a vanilla WACC				6.81%
	Leverage (%)			44%
	Cost of debt assumption (%)			4.41%
	Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC				6.27%

Company Name	**MainPower New Zealand Limited**
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SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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sch ref

2(iii): Information Supporting the Monthly ROI

63	**Opening RIV**	N/A

		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	April						–
68	May						–
69	June						–
70	July						–
71	August						–
72	September						–
73	October						–
74	November						–
75	December						–
76	January						–
77	February						–
78	March						–
79	**Total**	–	–	–	–	–	–

81	**Tax payments**	N/A
83	**Term credit spread differential allowance**	N/A
85	**Closing RIV**	N/A
88	**Monthly ROI – comparable to a vanilla WACC**	N/A
90	**Monthly ROI – comparable to a post tax WACC**	N/A

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

94	**Year-end ROI – comparable to a vanilla WACC**	6.62%
96	**Year-end ROI – comparable to a post tax WACC**	6.07%

** 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.*

2(v): Financial Incentives and Wash-Ups

102	Net recoverable costs allowed under incremental rolling incentive scheme	–	
103	Purchased assets – avoided transmission charge		
104	Energy efficiency and demand incentive allowance		
105	Quality incentive adjustment		
106	Other financial incentives		
107	**Financial incentives**		–
109	**Impact of financial incentives on ROI**		–
111	Input methodology claw-back		
112	Recoverable customised price-quality path costs		
113	Catastrophic event allowance		
114	Capex wash-up adjustment		
115	Transmission asset wash-up adjustment		
116	2013–2015 NPV wash-up allowance		
117	Reconsideration event allowance		
118	Other wash-ups		
119	**Wash-up costs**		–
121	**Impact of wash-up costs on ROI**		–

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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 all sections and provide explanatory comment on their regulatory profit 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	**3(i): Regulatory Profit**			**($000)**
8		**Income**		
9		Line charge revenue		53,426
10	*plus*	Gains / (losses) on asset disposals		–
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)		979
12				
13		**Total regulatory income**		54,405
14		**Expenses**		
15	*less*	Operational expenditure		16,196
16				
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups		14,905
18				
19		**Operating surplus / (deficit)**		23,304
20				
21	*less*	Total depreciation		12,198
22				
23	*plus*	Total revaluations		5,350
24				
25		**Regulatory profit / (loss) before tax**		16,456
26				
27	*less*	Term credit spread differential allowance		–
28				
29	*less*	Regulatory tax allowance		–
30				
31		**Regulatory profit/(loss) including financial incentives and wash-ups**		16,456
32				
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**		**($000)**	
34		**Pass through costs**		
35		Rates	282	
36		Commerce Act levies	72	
37		Industry levies	127	
38		CPP specified pass through costs		
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	12,830	
41		Transpower new investment contract charges	1,594	
42		System operator services		
43		Distributed generation allowance		
44		Extended reserves allowance		
45		Other recoverable costs excluding financial incentives and wash-ups		
46		**Pass-through and recoverable costs excluding financial incentives and wash-ups**		14,905
47				

Company Name	**MainPower New Zealand Limited**
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SCHEDULE 3: REPORT ON REGULATORY PROFIT

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sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 16	CY 31 Mar 17
51	Allowed controllable opex		
52	Actual controllable opex		
53			
54	Incremental change in year		
55			

			Previous years' incremental change	Previous years' incremental change adjusted for inflation
57	CY-5	31 Mar 12		
58	CY-4	31 Mar 13		
59	CY-3	31 Mar 14		
60	CY-2	31 Mar 15		
61	CY-1	31 Mar 16		
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–

3(iv): Merger and Acquisition Expenditure

($000)

66	Merger and acquisition expenditure	
67		
68	*Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)*	

3(v): Other Disclosures

($000)

71	Self-insurance allowance	

Company Name	**MainPower New Zealand Limited**
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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 assurance report required by section 2.8.

sch ref

4(i): Regulatory Asset Base Value (Rolled Forward)

		for year ended	RAB 31 Mar 13 ($000)	RAB 31 Mar 14 ($000)	RAB 31 Mar 15 ($000)	RAB 31 Mar 16 ($000)	RAB 31 Mar 17 ($000)
10		**Total opening RAB value**	197,056	202,799	221,540	231,674	247,342
12	*less*	**Total depreciation**	9,858	10,483	10,976	11,491	12,198
14	*plus*	**Total revaluations**	1,693	3,104	185	1,359	5,350
16	*plus*	**Assets commissioned**	13,908	26,375	22,346	25,946	13,540
18	*less*	**Asset disposals**		255	1,421	146	385
20	*plus*	**Lost and found assets adjustment**					–
22	*plus*	**Adjustment resulting from asset allocation**					0
24		**Total closing RAB value**	202,799	221,540	231,674	247,342	253,649

4(ii): Unallocated Regulatory Asset Base

			Unallocated RAB * ($000)	Unallocated RAB * ($000)	RAB ($000)	RAB ($000)
29		**Total opening RAB value**		247,342		247,342
31	*less*	**Total depreciation**		12,198		12,198
33	*plus*	**Total revaluations**		5,350		5,350
35	*plus*	Assets commissioned (other than below)	13,540		13,540	
36		Assets acquired from a regulated supplier	–			
37		Assets acquired from a related party				
38		**Assets commissioned**		13,540		13,540
40	*less*	Asset disposals (other than below)	385		385	
41		Asset disposals to a regulated supplier				
42		Asset disposals to a related party				
43		**Asset disposals**		385		385
45	*plus*	**Lost and found assets adjustment**				
47	*plus*	**Adjustment resulting from asset allocation**				0
49		**Total closing RAB value**		253,649		253,649

** 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 services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.*

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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 ref

4(iii): Calculation of Revaluation Rate and Revaluation of Assets

54		CPI_4	1,226
55		CPI_4^{-4}	1,200
56		Revaluation rate (%)	2.17%

		Unallocated RAB *		RAB	
		($000)	($000)	($000)	($000)
60		Total opening RAB value	247,342		247,342	
61	*less*	Opening value of fully depreciated, disposed and lost assets	394		394	
62						
63		Total opening RAB value subject to revaluation	246,948		246,948	
64		**Total revaluations**		5,350		5,350

4(iv): Roll Forward of Works Under Construction

			Unallocated works under construction		Allocated works under construction	
68		**Works under construction—preceding disclosure year**		4,696		4,696
69	*plus*	Capital expenditure	10,508		10,508	
70	*less*	Assets commissioned	13,540		13,540	
71	*plus*	Adjustment resulting from asset allocation				
72		**Works under construction - current disclosure year**		1,664		1,664
73						
74		Highest rate of capitalised finance applied				N/A

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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 assurance report required by section 2.8.

sch ref

4(v): Regulatory Depreciation

		Unallocated RAB * ($000)	Unallocated RAB ($000)	RAB ($000)	RAB ($000)
	Depreciation - standard	10,356		10,356	
	Depreciation - no standard life assets	1,842		1,842	
	Depreciation - modified life assets				
	Depreciation - alternative depreciation in accordance with CPP				
	Total depreciation		12,198		12,198

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation

** include additional rows if needed*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
	Total opening RAB value	18,190	768	27,900	57,923	49,424	40,309	11,179	12,600	29,049	247,342
less	Total depreciation	795	30	1,250	3,221	1,716	1,745	896	703	1,842	12,198
plus	Total revaluations	394	17	605	1,255	1,071	873	242	273	620	5,350
plus	Assets commissioned	818	–	421	4,331	3,661	1,926	1,241	494	648	13,540
less	Asset disposals									385	385
plus	Lost and found assets adjustment										–
plus	Adjustment resulting from asset allocation										–
plus	Asset category transfers										–
	Total closing RAB value	18,607	755	27,676	60,288	52,440	41,363	11,766	12,664	28,090	253,649
	Asset Life										
	Weighted average remaining asset life	22.9	25.6	22.3	18.0	28.8	23.1	12.5	17.9	15.8	(years)
	Weighted average expected total asset life	49.8	46.8	34.0	46.9	47.1	45.3	35.9	37.1	21.7	(years)

Company Name	**MainPower New Zealand Limited**
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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					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			16,456
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	–	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	5	*	
12		Amortisation of initial differences in asset values	1,048		
13		Amortisation of revaluations	991		
14					2,044
15					
16	*less*	Total revaluations	5,350		
17		Income included in regulatory profit / (loss) before tax but not taxable	–	*	
18		Discretionary discounts and customer rebates	9,206		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	–	*	
20		Notional deductible interest	4,594		
21					19,149
22					
23		**Regulatory taxable income**			(650)
24					
25	*less*	Utilised tax losses			
26		Regulatory net taxable income			–
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			–
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33	In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).				
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				**($000)**
35					
36		Opening unamortised initial differences in asset values	14,696		
37	*less*	Amortisation of initial differences in asset values	1,048		
38	*plus*	Adjustment for unamortised initial differences in assets acquired			
39	*less*	Adjustment for unamortised initial differences in assets disposed			
40		Closing unamortised initial differences in asset values			13,648
41					
42		Opening weighted average remaining useful life of relevant assets (years)			14.02
43					

Company Name	**MainPower New Zealand Limited**
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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

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sch ref				
44	**5a(iv): Amortisation of Revaluations**			**($000)**
45				
46		Opening sum of RAB values without revaluations	233,623	
47				
48		Adjusted depreciation	11,207	
49		Total depreciation	12,198	
50		Amortisation of revaluations		991
51				
52	**5a(v): Reconciliation of Tax Losses**			**($000)**
53				
54		**Opening tax losses**		
55	*plus*	Current period tax losses		
56	*less*	Utilised tax losses		
57		**Closing tax losses**		–
58	**5a(vi): Calculation of Deferred Tax Balance**			**($000)**
59				
60		**Opening deferred tax**	(5,426)	
61				
62	*plus*	Tax effect of adjusted depreciation	3,138	
63				
64	*less*	Tax effect of tax depreciation	3,460	
65				
66	*plus*	Tax effect of other temporary differences*	(69)	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	294	
69				
70	*plus*	Deferred tax balance relating to assets acquired in the disclosure year		
71				
72	*less*	Deferred tax balance relating to assets disposed in the disclosure year	(33)	
73				
74	*plus*	Deferred tax cost allocation adjustment	(0)	
75				
76		**Closing deferred tax**		(6,077)
77				
78	**5a(vii): Disclosure of Temporary Differences**			
79		*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 differences).*		
80				
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**			
82				**($000)**
83		**Opening sum of regulatory tax asset values**	235,423	
84	*less*	Tax depreciation	12,356	
85	*plus*	Regulatory tax asset value of assets commissioned	17,386	
86	*less*	Regulatory tax asset value of asset disposals	269	
87	*plus*	Lost and found assets adjustment	(22)	
88	*plus*	Adjustment resulting from asset allocation	–	
89	*plus*	Other adjustments to the RAB tax value	–	
90		**Closing sum of regulatory tax asset values**		240,162

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.
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

5b(i): Summary—Related Party Transactions

	($000)
Total regulatory income	
Operational expenditure	118
Capital expenditure	
Market value of asset disposals	
Other related party transactions	

5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship
Vircom Energy Management Services Limited	Up until November 2016 MainPower owned 77.4% of the related party
	In November 2016 MainPower acquired the remaining interest in the related party

** include additional rows if needed*

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
Vircom Energy Management Services Limited	Opex	Metering Inspections	118	ID clause 2.3.6(1)(a)

** include additional rows if needed*

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
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

5c(i): Qualifying Debt (may be Commission only)

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
N/A									
** include additional rows if needed*						–	–	–	–

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential		–
Total book value of interest bearing debt		
Leverage	44%	
Average opening and closing RAB values		
Attribution Rate (%)		–
Term credit spread differential allowance		–

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.

sch ref

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		2,084			
Not directly attributable				–	
Total attributable to regulated service		2,084			
Vegetation management					
Directly attributable		869			
Not directly attributable				–	
Total attributable to regulated service		869			
Routine and corrective maintenance and inspection					
Directly attributable		2,143			
Not directly attributable				–	
Total attributable to regulated service		2,143			
Asset replacement and renewal					
Directly attributable		–			
Not directly attributable				–	
Total attributable to regulated service		–			
System operations and network support					
Directly attributable		4,850			
Not directly attributable		1,104		1,104	
Total attributable to regulated service		5,954			
Business support					
Directly attributable		1,669			
Not directly attributable		3,477		3,477	
Total attributable to regulated service		5,146			
Operating costs directly attributable		11,615			
Operating costs not directly attributable	–	4,581	–	4,581	–
Operational expenditure		16,196			

5d(ii): Other Cost Allocations

Pass through and recoverable costs	**($000)**
Pass through costs	
Directly attributable	481
Not directly attributable	–
Total attributable to regulated service	481
Recoverable costs	
Directly attributable	14,424

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.

sch ref		
47	Not directly attributable	–
48	**Total attributable to regulated service**	14,424
49		

5d(iii): Changes in Cost Allocations* †

				($000)	
51					
52	**Change in cost allocation 1**			**CY-1**	**Current Year (CY)**
53	Cost category		Original allocation		
54	Original allocator or line items		New allocation		
55	New allocator or line items		Difference	–	–
56					
57	Rationale for change				
58					
59					
60				($000)	
61	**Change in cost allocation 2**			**CY-1**	**Current Year (CY)**
62	Cost category		Original allocation		
63	Original allocator or line items		New allocation		
64	New allocator or line items		Difference	–	–
65					
66	Rationale for change				
67					
68					
69				($000)	
70	**Change in cost allocation 3**			**CY-1**	**Current Year (CY)**
71	Cost category		Original allocation		
72	Original allocator or line items		New allocation		
73	New allocator or line items		Difference	–	–
74					
75	Rationale for change				
76					
77					

78 ** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*

79 *† include additional rows if needed*

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.

sch ref

5e(i): Regulated Service Asset Values

	Value allocated ($000s) Electricity distribution services
Subtransmission lines	
Directly attributable	18,607
Not directly attributable	
Total attributable to regulated service	18,607
Subtransmission cables	
Directly attributable	755
Not directly attributable	
Total attributable to regulated service	755
Zone substations	
Directly attributable	27,676
Not directly attributable	
Total attributable to regulated service	27,676
Distribution and LV lines	
Directly attributable	60,288
Not directly attributable	
Total attributable to regulated service	60,288
Distribution and LV cables	
Directly attributable	52,440
Not directly attributable	
Total attributable to regulated service	52,440
Distribution substations and transformers	
Directly attributable	41,363
Not directly attributable	
Total attributable to regulated service	41,363
Distribution switchgear	
Directly attributable	11,766
Not directly attributable	
Total attributable to regulated service	11,766
Other network assets	
Directly attributable	12,664
Not directly attributable	
Total attributable to regulated service	12,664
Non-network assets	
Directly attributable	28,090
Not directly attributable	
Total attributable to regulated service	28,090
Regulated service asset value directly attributable	253,649
Regulated service asset value not directly attributable	–
Total closing RAB value	253,649

5e(ii): Changes in Asset Allocations* †

Change in asset value allocation 1

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in asset value allocation 2

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

Change in asset value allocation 3

			($000) CY-1	Current Year (CY)
Asset category		Original allocation		
Original allocator or line items		New allocation		
New allocator or line items		Difference	–	–

Rationale for change

** 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	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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

6a(i): Expenditure on Assets

			($000)	($000)
8		Consumer connection		7,375
9		System growth		1,235
10		Asset replacement and renewal		3,843
11		Asset relocations		164
12		Reliability, safety and environment:		
13		Quality of supply	463	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	1,153	
16		**Total reliability, safety and environment**		1,616
17		**Expenditure on network assets**		14,234
18		Expenditure on non-network assets		648
19				
20		**Expenditure on assets**		14,882
21	*plus*	Cost of financing		
22	*less*	Value of capital contributions		4,374
23	*plus*	Value of vested assets		
24				
25		**Capital expenditure**		10,508

6a(ii): Subcomponents of Expenditure on Assets (where known)

			($000)
27		Energy efficiency and demand side management, reduction of energy losses	
28		Overhead to underground conversion	146
29		Research and development	

6a(iii): Consumer Connection

		*Consumer types defined by EDB**	($000)	($000)
32		Residential	3,551	
33		Other	1,419	
34		Irrigation	2,405	
35				
36				
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		7,375
39				
40	*less*	Capital contributions funding consumer connection expenditure	4,374	
41		**Consumer connection less capital contributions**		3,001

6a(iv): System Growth and Asset Replacement and Renewal

			System Growth ($000)	Asset Replacement and Renewal ($000)
45		Subtransmission	101	463
46		Zone substations		
47		Distribution and LV lines	611	2,907
48		Distribution and LV cables	406	
49		Distribution substations and transformers	39	180
50		Distribution switchgear	74	228
51		Other network assets	5	65
52		**System growth and asset replacement and renewal expenditure**	1,235	3,843
53	*less*	Capital contributions funding system growth and asset replacement and renewal		
54		**System growth and asset replacement and renewal less capital contributions**	1,235	3,843
55				

6a(v): Asset Relocations

		*Project or programme**	($000)	($000)
58				
59				
60				
61				
62				
63		** include additional rows if needed*		
64		All other projects or programmes - asset relocations	164	
65		**Asset relocations expenditure**		164
66	*less*	Capital contributions funding asset relocations		
67		**Asset relocations less capital contributions**		164

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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

6a(vi): Quality of Supply

		*Project or programme**	($000)	($000)
		Automation	375	
		ABS Renewal	88	
		** include additional rows if needed*		
		All other projects programmes - quality of supply		
		Quality of supply expenditure		463
	less	Capital contributions funding quality of supply		
		Quality of supply less capital contributions		463

6a(vii): Legislative and Regulatory

		*Project or programme**	($000)	($000)
		** include additional rows if needed*		
		All other projects or programmes - legislative and regulatory		
		Legislative and regulatory expenditure		–
	less	Capital contributions funding legislative and regulatory		
		Legislative and regulatory less capital contributions		–

6a(viii): Other Reliability, Safety and Environment

		*Project or programme**	($000)	($000)
		Distribution Lines and Cables	858	
		Network other	295	
		** include additional rows if needed*		
		All other projects or programmes - other reliability, safety and environment		
		Other reliability, safety and environment expenditure		1,153
	less	Capital contributions funding other reliability, safety and environment		
		Other reliability, safety and environment less capital contributions		1,153

6a(ix): Non-Network Assets

Routine expenditure

		*Project or programme**	($000)	($000)
		Buildings	153	
		Motor Vehicles	39	
		Plant & equipment	244	
		Computer Hardware & Software	193	
		Office	19	
		** include additional rows if needed*		
		All other projects or programmes - routine expenditure		
		Routine expenditure		648

Atypical expenditure

		*Project or programme**	($000)	($000)
		NIL		
		** include additional rows if needed*		
		All other projects or programmes - atypical expenditure		
		Atypical expenditure		–
		Expenditure on non-network assets		648

Company Name	lainPower New Zealand Limite
For Year Ended	31 March 2017

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

This schedule requires a breakdown of operational 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 operational 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		($000)	($000)
7	**6b(i): Operational Expenditure**		
8	Service interruptions and emergencies	2,084	
9	Vegetation management	869	
10	Routine and corrective maintenance and inspection	2,143	
11	Asset replacement and renewal		
12	**Network opex**		5,096
13	System operations and network support	5,954	
14	Business support	5,146	
15	**Non-network opex**		11,100
16			
17	**Operational expenditure**		16,196
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		
20	Direct billing*		
21	Research and development		
22	Insurance		517
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.

sch ref

		Target ($000) [1]	Actual ($000)	% variance
7	**7(i): Revenue**			
8	Line charge revenue	58,423	53,426	(9%)
		Forecast ($000) [2]	**Actual ($000)**	**% variance**
9	**7(ii): Expenditure on Assets**			
10	Consumer connection	7,660	7,375	(4%)
11	System growth	2,756	1,235	(55%)
12	Asset replacement and renewal	5,632	3,843	(32%)
13	Asset relocations	–	164	–
14	Reliability, safety and environment:			
15	Quality of supply	1,289	463	(64%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	801	1,153	44%
18	**Total reliability, safety and environment**	2,090	1,616	(23%)
19	**Expenditure on network assets**	18,138	14,234	(22%)
20	Expenditure on non-network assets	3,582	648	(82%)
21	Expenditure on assets	21,720	14,882	(31%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	998	2,084	109%
24	Vegetation management	1,064	869	(18%)
25	Routine and corrective maintenance and inspection	2,147	2,143	(0%)
26	Asset replacement and renewal	173	–	(100%)
27	**Network opex**	4,382	5,096	16%
28	System operations and network support	3,045	5,954	96%
29	Business support	4,474	5,146	15%
30	**Non-network opex**	7,519	11,100	48%
31	**Operational expenditure**	11,901	16,196	36%
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses		–	–
34	Overhead to underground conversion	859	146	(83%)
35	Research and development		–	–
36				
37	**7(v): Subcomponents of Operational Expenditure (where known)**			
38	Energy efficiency and demand side management, reduction of energy losses		–	–
39	Direct billing		–	–
40	Research and development		–	–
41	Insurance	354	517	46%
42				
43	*1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*			
44	*2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*			

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-Network Name	

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 these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
Tariff 101 MainPower (MP)	Residential Controll Supply	Standard	18,566	178,140
Tariff 102 MP	Residential UnControlled Supply	Standard	1,477	13,830
Tariff 103 MP	Residential Night Special	Standard	1,602	3,164
Tariff 111 MP	Residential C. S Low User	Standard	8,216	46,714
Tariff 112 MP	Residential UnC Supply Low User	Standard	441	2,623
Tariff 113 MP	Residential Night Low User	Standard	548	691
Tariff 121 MP	Non Residential General Supply	Standard	5,014	111,268
Tariff 122 MP	Tempory Supply	Standard	247	181
Tariff 124 MP	Irrigation Kw Connected	Standard	1,210	85,519
Tariff 125 MP	Council Pumping	Standard	163	9,013
Tariff 126 MP	Street Lighting	Standard	180	3,629
Tariff 127 MP	Right of Way	Standard		
Tariff 128 MP	Under Verandah Lighting	Standard		
Tariff 130 MP	Large User	Standard	40	47,240
Tariff 140 MP	Large User	Non-standard	1	62,980
Tariff 201 Kaiapoi (KE)	Residential Controll Supply	Standard	946	8,253
Tariff 202 KE	Residential UnControlled Supply	Standard	29	153
Tariff 203 KE	Residential Night Special	Standard	112	154
Tariff 211 KE	Residential C. S Low User	Standard	646	3,557
Tariff 212 KE	Residential UnC Supply Low User	Standard	8	46
Tariff 213 KE	Residential Night Low User	Standard	50	55
Tariff 221 KE	Non Residential General Supply	Standard	210	6,216
Tariff 222 KE	Tempory Supply	Standard	6	2
Tariff 225 KE	Council Pumping	Standard	17	770
Tariff 226 KE	Street Lighting	Standard	17	298
Tariff 227 KE	Right of Way	Standard		
Tariff 228 KE	Under Verandah Lighting	Standard		
Tariff 230 KE	Large User	Standard	8	10,560
Adjustment for Customers on multiple Tariffs 103,113, 203 & 213		Standard	(2,312)	

Add extra rows for additional consumer groups or price category codes as necessary

Standard consumer totals	37,441	532,076
Non-standard consumer totals	1	62,980
Total for all consumers	37,442	595,056

Billed quantities by price component

Price component	Distribution Fixed Charge	Distribution Variable Charge	Transmission Variable Charge	Large User Distribution Variable	Large User Transmission Variable	Non Standard Fixed Charge	Non Standard
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	cents / Day	c/kWh	c/kWh	c/kWh	c/kWh	$ / Day	c/kWh
Tariff 101 MainPower (MP)		178,140,386	178,140,386				
Tariff 102 MP		13,829,705	13,829,705				
Tariff 103 MP		3,163,966	3,163,966				
Tariff 111 MP		46,713,755	46,713,755				
Tariff 112 MP		2,622,662	2,622,662				
Tariff 113 MP		691,101	691,101				
Tariff 121 MP		111,268,299	111,268,299				
Tariff 122 MP		180,914	180,914				
Tariff 124 MP		85,519,044	85,519,044				
Tariff 125 MP		9,013,109	9,013,109				
Tariff 126 MP		3,628,706	3,628,706				
Tariff 127 MP							
Tariff 128 MP							
Tariff 130 MP				47,240,238	47,240,238		
Tariff 140 MP							62,979,665
Tariff 201 Kaiapoi (KE)		8,252,885	8,252,885				
Tariff 202 KE		152,606	152,606				
Tariff 203 KE		154,475	154,475				
Tariff 211 KE		3,556,871	3,556,871				
Tariff 212 KE		46,339	46,339				
Tariff 213 KE		55,154	55,154				
Tariff 221 KE		6,216,094	6,216,094				
Tariff 222 KE		1,853	1,853				
Tariff 225 KE		770,328	770,328				
Tariff 226 KE		297,759	297,759				
Tariff 227 KE							
Tariff 228 KE							
Tariff 230 KE				10,559,676	10,559,676		
Adjustment for Customers on multiple Tariffs 103,113, 203 & 213							
Standard consumer totals	–	474,276,011	474,276,011	57,799,914	57,799,914	–	–
Non-standard consumer totals	–	–	–	–	–	–	62,979,665
Total for all consumers	–	474,276,011	474,276,011	57,799,914	57,799,914	–	62,979,665

Add extra columns for additional billed quantities by price component as necessary

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-Network Name	

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 these ICPs.

8(ii): Line Charge Revenues ($000) by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Line charge revenues ($000) by price component							*Add extra columns for additional line charge revenues by price component as necessary*
							Price component	Distribution Fixed Charge	Distribution Variable Charge	Transmission Variable Charge	Large User Distribution Variable	Large User Transmission Variable	Non Standard Fixed Charge	Non Standard
							Rate (eg, $ per day, $ per kWh, etc.)	cents / Day	c/kWh	c/kWh	c/kWh	c/kWh	$ / Day	c/kWh
Tariff 101 MainPower (MP)	Residential Controll Supply	Standard	$17,962		$13,806	$4,156		$1,042	$12,764	$4,156				
Tariff 102 MP	Residential UnControlled Supply	Standard	$1,604		$1,281	$323		$290	$991	$323				
Tariff 103 MP	Residential Night Special	Standard	$271		$264	$7		$83	$181	$7				
Tariff 111 MP	Residential C. $ Low User	Standard	$4,898		$3,808	$1,090		$461	$3,347	$1,090				
Tariff 112 MP	Residential UnC Supply Low User	Standard	$336		$275	$61		$24	$251	$61				
Tariff 113 MP	Residential Night Low User	Standard	$60		$44	$16		–	$44	$16				
Tariff 121 MP	Non Residential General Supply	Standard	$11,507		$8,911	$2,596		$939	$7,972	$2,596				
Tariff 122 MP	Tempory Supply	Standard	$106		$102	$4		$85	$17	$4				
Tariff 124 MP	Irrigation Kw Connected	Standard	$8,518		$6,523	$1,995		$395	$6,128	$1,995				
Tariff 125 MP	Council Pumping	Standard	$865		$655	$210		$9	$646	$210				
Tariff 126 MP	Street Lighting	Standard	$344		$260	$84		–	$260	$84				
Tariff 127 MP	Right of Way	Standard	–		–	–		–	–					
Tariff 128 MP	Under Verandah Lighting	Standard	–		–	–		–	–					
Tariff 130 MP	Large User	Standard	$3,162		$2,060	$1,102		$6			$2,054	$1,102		
Tariff 140 MP	Large User	Non-standard	$1,496		$1,496	–							$221	$1,275
			–											
Tariff 201 Kaiapoi (KE)	Residential Controll Supply	Standard	$678		$366	$312		$52	$314	$312				
Tariff 202 KE	Residential UnControlled Supply	Standard	$17		$11	$6		$5	$6	$6				
Tariff 203 KE	Residential Night Special	Standard	$13		$12	$1		$6	$6	$1				
Tariff 211 KE	Residential C. $ Low User	Standard	$305		$170	$135		$35	$135	$135				
Tariff 212 KE	Residential UnC Supply Low User	Standard	$6		$4	$2		$1	$3	$2				
Tariff 213 KE	Residential Night Low User	Standard	$4		$2	$2		–	$2	$2				
Tariff 221 KE	Non Residential General Supply	Standard	$511		$276	$235		$39	$237	$235				
Tariff 222 KE	Tempory Supply	Standard	$2		$2	–		$2	–	–				
Tariff 225 KE	Council Pumping	Standard	$59		$30	$29		$1	$29	$29				
Tariff 226 KE	Street Lighting	Standard	$23		$12	$11		–	$12	$11				
Tariff 227 KE	Right of Way	Standard	–		–	–								
Tariff 228 KE	Under Verandah Lighting	Standard	–		–	–								
Tariff 230 KE	Large User	Standard	$679		$280	$399		$1			$279	$399		
			–											

Add extra rows for additional consumer groups or price category codes as necessary

	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Distribution Fixed Charge	Distribution Variable Charge	Transmission Variable Charge	Large User Distribution Variable	Large User Transmission Variable	Non Standard Fixed Charge	Non Standard
Standard consumer totals	$51,930	–	$39,154	$12,776	$3,476	$33,345	$11,275	$2,333	$1,501	–	–
Non-standard consumer totals	$1,496	–	$1,496	–	–	–	–	–	–	$221	$1,275
Total for all consumers	$53,426	–	$40,650	$12,776	$3,476	$33,345	$11,275	$2,333	$1,501	$221	$1,275

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end	1	**Check**	**OK**

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-network Name	

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.	7,705	8,069	364	3
10	All	Overhead Line	Wood poles	No.	48,671	48,484	(187)	2
11	All	Overhead Line	Other pole types	No.		–	–	4
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	374	374	–	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km		–	–	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	3	3	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km		–	–	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km		–	–	4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		–	–	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km		–	–	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km		–	–	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		–	–	4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km		–	–	4
22	HV	Subtransmission Cable	Subtransmission submarine cable	km		–	–	4
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	15	15	–	3
24	HV	Zone substation Buildings	Zone substations 110kV+	No.		–	–	4
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.		30	30	4
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	16	20	4	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.		–	–	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	39	46	7	3
29	HV	Zone substation switchgear	33kV RMU	No.		–	–	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	30	–	(30)	3
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	19	14	(5)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	23	23	–	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	24	23	(1)	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	24	26	2	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,295	3,301	6	2
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km		–	–	4
37	HV	Distribution Line	SWER conductor	km	119	118	(1)	2
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	248	258	10	3
39	HV	Distribution Cable	Distribution UG PILC	km	56	55	(1)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km		–	–	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	77	81	4	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	14	9	(5)	3
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,454	9,574	120	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		–	–	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	348	357	9	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,340	7,397	57	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	769	788	19	4
48	HV	Distribution Transformer	Voltage regulators	No.	12	12	–	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	755	774	19	2
50	LV	LV Line	LV OH Conductor	km	242	237	(5)	1
51	LV	LV Cable	LV UG Cable	km	623	639	16	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	414	425	11	3
53	LV	Connections	OH/UG consumer service connections	No.	42,646	43,223	577	1
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	317	326	9	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	195	224	29	3
56	All	Capacitor Banks	Capacitors including controls	No		–	–	4
57	All	Load Control	Centralised plant	Lot	8	8	–	4
58	All	Load Control	Relays	No	22,914	25,264	2,350	3
59	All	Civils	Cable Tunnels	km		–	–	4

Company Name	MainPower New Zealand Limited
For Year Ended	31 March 2017
Network / Sub-network Name	

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.

sch ref

8 **Disclosure Year (year ended)** 31 March 2017

Number of assets at disclosure year end by installation date

9	Voltage	Asset category	Asset class	Units	pre-1940	1940 –1949	1950 –1959	1960 –1969	1970 –1979	1980 –1989	1990 –1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	28	9	375	404	825	1,708	496	25	47	65	304	139	93	81	65	115	89	293	172	232	405	500	514	703	382		8,069	1,600	3
11	All	Overhead Line	Wood poles	No.	3,179	404	2,154	3,791	4,982	9,145	8,937	556	756	603	449	800	1,247	854	819	993	1,515	1,157	820	782	643	725	864	831	715	763	48,484	1,700	2
12	All	Overhead Line	Other pole types	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	5	–	–	33	49	115	31	2	1	13	18	–	–	–	1	–	–	1	–	83	3	4	10	5	–		374		3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–		3		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	–	8	2	1	–	–	2	–	–	–	–	–	–	1	1	–	–	–	–	–	–	–		15		3
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0	–	–	–	–	–	–	–	–		–		4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	9	–	–	–	–	–	–	–	–	–	8	–	–	–	1	–	12	–	–		30		4
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	4	3	1	–	–	–	–	–	–	–	8	2	1	–	–	–	–	–	1	–	–		20		4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	2	23	12	–	–	–	1	–	–	–	–	1	–	3	–	2	–	–	1	1	–	–		46		3
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		3
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	4	3	–	–	–	1	4	1	–	–		14		3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	8	2	13	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		23		3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	1	–	1	–	–	–	–	1	1	–	1	–	12	3	–	–	2	1	–	–	–	–		23		3
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	–	2	4	4	3	–	–	–	2	–	–	–	2	5	–	–	–	–	–	4	–	–	–		26		4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	30	–	6	131	535	1,120	822	36	24	39	44	36	54	40	38	38	65	37	30	23	48	30	46	15	14		3,301	975	2
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
38	HV	Distribution Line	SWER conductor	km	–	–	–	14	28	66	4	–	2	–	–	–	–	2	2	–	–	–	–	–	–	–	–	–	–		118		2
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	–	–	4	5	28	5	9	9	2	13	9	11	12	16	21	9	19	12	16	13	14	21	10		258		3
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	1	22	17	13	1	–	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–		55		3
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	–	1	10	10	–	–	–	–	1	1	1	3	–	–	9	3	1	2	12	12	15	–		81		3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	1	1	1	–	–	–	–	–	–	2	–	–	–	–	1	–	–	–	–	1	2		9		3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	127	2	5	1,890	284	1,854	1,089	147	133	131	175	144	206	195	157	163	145	123	134	252	510	505	410	449	344		9,574	1,800	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–		2
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	2	–	–	–	12	84	44	15	7	5	8	14	8	12	10	7	14	11	19	13	22	19	17	10	4		357		3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	12	2	16	493	1,365	880	1,073	214	197	200	196	232	283	235	123	212	186	136	161	88	425	257	106	260	45		7,397		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	7	–	1	27	95	79	79	13	12	20	22	17	27	41	35	51	41	19	23	17	40	48	28	38	8		788		4
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	–	1	–	–	–	–	–	2	4	4	–	–	1	–	–	–	–	–	–	–	–	–		12		3
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	1	–	1	144	26	91	97	12	18	19	22	29	22	26	19	20	16	15	22	21	25	31	39	33	25		774		2
51	LV	LV Line	LV OH Conductor	km	4	–	1	10	111	57	36	1	2	1	1	1	1	1	1	1	1	3	2	2	–	–	–	–	–		237		1
52	LV	LV Cable	LV UG Cable	km	4	–	–	–	80	72	107	12	14	9	10	23	24	23	26	34	19	24	13	19	35	23	26	22	20		639		3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	2	–	–	1	198	33	8	1	9	2	3	8	9	8	12	12	5	14	11	11	16	15	20	16	11		425		3
54	LV	Connections	OH/UG consumer service connections	No.	684	138	661	1,193	6,698	5,554	5,951	680	985	567	764	948	1,330	1,358	1,171	1,573	1,140	1,251	945	1,145	1,673	1,154	1,797	2,225	1,638		43,223	7,000	1
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	11	–	–	3	51	27	23	–	–	10	–	8	23	1	10	27	21	32	4	12	12	15	27	7	2		326		3
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot						6	56		2	1	6	26	1	3	26	12	15	7	1	10	2	17	4		29		224		3
57	All	Capacitor Banks	Capacitors including controls	No																											–		4
58	All	Load Control	Centralised plant	Lot	–	–	–	–	–	–	1	–	–	–	–	–	–	–	2	1	1	–	–	–	–	–	3	–	–		8		4
59	All	Load Control	Relays	No	559	–	–	–	–	–	16,279	157	543	221	265	414	639	822	510	491	510	395	419	706	963	1,363	7	1	–		25,264		3
60	All	Civils	Cable Tunnels	km																											–		4

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-network Name	

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 ref				
9				
10	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV			–
12	50kV & 66kV	218	0	218
13	33kV	155	3	158
14	SWER (all SWER voltages)	117	2	119
15	22kV (other than SWER)	952	58	1,010
16	6.6kV to 11kV (inclusive—other than SWER)	2,349	255	2,604
17	Low voltage (< 1kV)	238	641	879
18	**Total circuit length (for supply)**	4,029	958	4,987
19				
20	Dedicated street lighting circuit length (km)	17	405	422
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				

23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**
24	Urban	52	1%
25	Rural	2,411	60%
26	Remote only	1,438	36%
27	Rugged only	128	3%
28	Remote and rugged		–
29	Unallocated overhead lines		–
30	**Total overhead length**	4,029	100%
31			

32		**Circuit length (km)**	**(% of total circuit length)**
33	Length of circuit within 10km of coastline or geothermal areas (where known)	2085.8	42%

34		**Circuit length (km)**	**(% of total overhead length)**
35	Overhead circuit requiring vegetation management	2073.4	51%

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

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.

sch ref	Location *	Number of ICPs served	Line charge revenue ($000)
8	**Location ***	**Number of ICPs served**	**Line charge revenue ($000)**
9	Not Applicable		
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

** Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network*

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
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

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	Number of connections (ICPs)
Residential	867
Other	129
Irrigation	37
[EDB consumer type]	
[EDB consumer type]	

** include additional rows if needed*

Connections total 1,033

Distributed generation

Number of connections made in year	171	**connections**
Capacity of distributed generation installed in year	0.78	**MVA**

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	112	
plus	Distributed generation output at HV and above		
	Maximum coincident system demand	112	
less	Net transfers to (from) other EDBs at HV and above		
	Demand on system for supply to consumers' connection points	112	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	620	
less	Electricity exports to GXPs		
plus	Electricity supplied from distributed generation	15	
less	Net electricity supplied to (from) other EDBs		
	Electricity entering system for supply to consumers' connection points	635	
less	Total energy delivered to ICPs	595	
	Electricity losses (loss ratio)	40	6.3%
	Load factor	0.65	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	535
Distribution transformer capacity (Non-EDB owned, estimated)	5
Total distribution transformer capacity	540
Zone substation transformer capacity	135

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-network Name	

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.

sch ref

10(i): Interruptions

		Number of interruptions
9	**Interruptions by class**	
10	Class A (planned interruptions by Transpower)	
11	Class B (planned interruptions on the network)	485
12	Class C (unplanned interruptions on the network)	273
13	Class D (unplanned interruptions by Transpower)	1
14	Class E (unplanned interruptions of EDB owned generation)	
15	Class F (unplanned interruptions of generation owned by others)	
16	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**	759

		≤3Hrs	>3hrs
21	**Interruption restoration**		
22	Class C interruptions restored within	161	112

		SAIFI	SAIDI
24	**SAIFI and SAIDI by class**		
25	Class A (planned interruptions by Transpower)		
26	Class B (planned interruptions on the network)	0.47	121.71
27	Class C (unplanned interruptions on the network)	0.95	424.47
28	Class D (unplanned interruptions by Transpower)	0.26	12.84
29	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)		
34	**Total**	1.68	559.02

		Normalised SAIFI	Normalised SAIDI
36	**Normalised SAIFI and SAIDI**		
37	Classes B & C (interruptions on the network)	1.37	206.90

		SAIFI reliability limit	SAIDI reliability limit
39	**Quality path normalised reliability limit**		
40	SAIFI and SAIDI limits applicable to disclosure year*		
41	** not applicable to exempt EDBs*		

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**
Network / Sub-network Name	

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(ii): Class C Interruptions and Duration by Cause

Cause	SAIFI	SAIDI
Lightning	–	0.07
Vegetation	0.09	7.29
Adverse weather	0.06	5.15
Adverse environment	0.15	329.68
Third party interference	0.15	12.28
Wildlife	0.10	9.94
Human error	–	0.03
Defective equipment	0.25	50.23
Cause unknown	0.14	9.80

10(iii): Class B Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.02	5.10
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.40	107.24
Distribution cables (excluding LV)	0.03	4.61
Distribution other (excluding LV)	0.02	4.71

10(iv): Class C Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.18	14.90
Subtransmission cables		
Subtransmission other		
Distribution lines (excluding LV)	0.64	368.50
Distribution cables (excluding LV)	0.10	32.80
Distribution other (excluding LV)	0.03	8.20

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	5	379	1.32
Subtransmission cables		3	–
Subtransmission other			
Distribution lines (excluding LV)	245	3,413	7.18
Distribution cables (excluding LV)	5	296	1.69
Distribution other (excluding LV)	18		
Total	273		

EDB Information Disclosure Requirements

Information Templates

for

Schedules 5f & 5g

Company Name	MainPower New Zealand Limited
Disclosure Date	31 March 2017
Disclosure Year (year ended)	31 March 2017

Templates for Schedules 5f & 5g
Template Version 4.1. Prepared 24 March 2015

Table of Contents

Disclosure Template Instructions

These templates have been prepared for use by EDBs when making disclosures under subclause 2.3.2 of the Electricity Distribution Information Disclosure Determination 2012.

Instructions for completing schedules 5f & 5g

When completing schedules 5f & 5g, EDBs are only required to report on cost or asset values that are not directly attributable. If EDBs do not have any cost or asset values that are not directly attributable, they should indicate this on the first "Insert cost description" input box.
EDBs are required to submit schedules 5f & 5g to the Commission even if they do not have any cost or asset values that are not directly attributable.

Company Name and Dates

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.
The cell C12 entry (current year) is used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).
The cell C8 entry (company name) is used in the template title blocks.
Dates should be entered in day/month/year order (Example -"1 April 2013").

Data Entry Cells and Calculated Cells

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.
In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

Validation Settings on Data Entry Cells

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

Inserting Additional Rows

The templates for schedules 5f and 5g may require additional rows to be inserted in tables.
Additional rows must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals. Column A schedule references should not be entered in additional rows.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 24 March 2015). They provide a common reference between the rows in the determination and the template.

Company Name	**MainPower New Zealand Limited**
For Year Ended	**31 March 2017**

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5d (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.
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

Have costs been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination? **Yes**

	Line Item*	Allocation methodology type	Cost allocator	Allocator type	Allocator Metric (%)		Value allocated ($000)				OVABAA allocation increase ($000)
					Electricity distribution services	Non-electricity distribution services	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	
	Service interruptions and emergencies										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-
	Vegetation management										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-
	Routine and corrective maintenance and inspection										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-
	Asset replacement and renewal										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-
	System operations and network support										
	Land, Buildings	ACAM			100.00%			180		180	
	Staff Expenses	ACAM			100.00%			111		111	
	Office Expenses	ACAM			100.00%			813		813	
										-	
	Not directly attributable						-	1,104	-	1,104	-
	Business support										
	Land, Buildings	ACAM			100.00%			116		116	
	Staff Expenses	ACAM			100.00%			839		839	
	Office Expenses	ACAM			100.00%			578		578	
	Finance	ACAM			100.00%			335		335	
	Community	ACAM			100.00%			1,158		1,158	
	Directors Fees and Expenses	ACAM			100.00%			451		451	
	Not directly attributable						-	3,477	-	3,477	-
	Operating costs not directly attributable						-	4,581	-	4,581	-
	Pass through and recoverable costs										
	Pass through costs										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-
	Recoverable costs										
										-	
										-	
										-	
										-	
	Not directly attributable						-	-	-	-	-

** include additional rows if needed*

Company Name: MainPower New Zealand Limited
For Year Ended: 31 March 2017

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5e (Report on Asset Allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.
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

Have assets been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination? Yes

Line Item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Value allocated ($000)				OVABAA allocation increase ($000)
				Electricity distribution services	Non-electricity distribution services	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	
Subtransmission lines										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Subtransmission cables										
									-	
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Zone substations										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Distribution and LV lines										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Distribution and LV cables										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Distribution substations and transformers										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Distribution switchgear										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Other network assets										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Non-network assets										
									-	
									-	
									-	
									-	
Not directly attributable						-	-	-	-	-
Regulated service asset value not directly attributable						-	-	-	-	-

** include additional rows if needed*

Company Name	MainPower New Zealand Limited
For Year Ended	31st March 2017

Schedule 14 Mandatory Explanatory Notes

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f),and 2.5.2(1)(e).

2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.

3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 1: Explanatory comment on return on investment

MainPower's Post tax ROI of 6.27% is just below that targeted by MainPower in the Lines Services Pricing Methodology disclosed on the 1st April 2014 of 6.90%.

MainPower's Post Tax ROI of 6.27% is above the Mid-Point WACC estimate 25th percentile 4.05% and the 75 percentile WACC of 5.48% as posted by the Commerce Commission.

This year's return has been significantly influenced by the warmer winter and wetter spring/ summer that the region has experienced over the last year with line charge revenue of $M53.426 being down on last year ($M56.617) by $M3.191.

In addition MainPower experience an increase in transmission charges of $M1.195 which was absorbed by the company and not passed on to consumers.

On the 14th November 2016 the North Canterbury region experienced a 7.8 magnitude earthquake 15 kilometres north east of Culverden and 60 kilometres south-west of Kaikoura. In terms of damage to the MainPower network assets and requirements for the restoration of supply is in excess of $M1. It is expected that significant additional maintenance will be required within the next 18 months as the distribution network is gradually brought back to the required level of functionality.

MainPower continues to undertake the establishment and delivery of a Customer Centric focused organisation.

No Items have been reclassified nor have there been any changes in the accounting treatment of expenditure from that adopted last year.

Regulatory Profit (Schedule 3)

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-

    5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3

    5.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

Other regulated income includes: Interest $M.110 related to MainPower's self insurance fund; Cable rebate $M.097; Insurance recoveries $M.700.

Operation costs include operational expenditure on the network as detailed in schedule 6b of $M5.096, Land, Building $M0.296 Operational expenditure $M2.632, Staff expenses $M4.456, Office expenses $M1.740, Financial $M0.367, Directors expenses $M0.451, Community $M1.158.

No Items have been reclassified nor has there been any changes in the accounting treatment of expenditure from that adopted last year.

Merger and acquisition expenses (3(iv) of Schedule 3)

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

   6.1 information on reclassified items in accordance with subclause 2.7.1(2)

   6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

Box 3: Explanatory comment on merger and acquisition expenditure

Not Applicable

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

Network assets commissioned excluding customer contributions amounted to $M12.892. Non Network Assets purchased amounted to $M0.648; (Plant & Equipment $M0.244, Computer Equipment $M.193 and Buildings $M0.153). Total assets commissioned amounted to $M13.540.

No Items have been reclassified nor have there been any changes in the accounting treatment of expenditure from that adopted last year.

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-

   8.1 Income not included in regulatory profit / (loss) before tax but taxable;

   8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;

   8.3 Income included in regulatory profit / (loss) before tax but not taxable;

   8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

	$,000
8.1	Nil
8.2 Entertainment expenditure	5
8.3	Nil
8.4	Nil
Total	**5**

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

Box 6: Tax effect of other temporary differences (current disclosure year)

Positive Temporary differences

	$M
Employee entitlements deductible for regulatory but not tax	1.901
Provision for expenditure deductible for regulatory but not tax	0.636
Total	**2.537**

Negative Temporary differences

	$M
Employee entitlements deductible for tax but not regulatory	2.034
Provision for expenditure deductible for tax but not regulatory	0.378
Renewals expenditure expensed for tax and capitalised for regulatory	0.509
Adjustments in tax asset register but not RAB	(0.138)
Total	**2.783**

Related party transactions: disclosure of related party transactions (Schedule 5b)

10. In the box below, provide descriptions of related party transactions beyond those disclosed on Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.6(1)(b).

Box 7: Related party transactions
Vircom Energy Management Services Limited (VEMS) is now 100% owned by MainPower New Zealand Limited as MainPower acquired the remaining shares in VEMS in November 2016. MainPower New Zealand Limited paid $M0.118 of inspection work on network related assets.

Cost allocation (Schedule 5d)

11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 8: Cost allocation
Operating costs were allocated in accordance with clause 2.1.4 of the EDB IM Determination 2012 using the Avoidable Costs Allocation Methodology (ACAM).

No Items have been reclassified nor have there been any changes in the accounting treatment of expenditure from that adopted last year.

Asset allocation (Schedule 5e)

12. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 9: Commentary on asset allocation
Assets allocations were allocated in accordance with clause 2.1.4 of the EDB IM Determination 2012 using ACAM and taking into account materiality of the individual assets involved.

No Items have been reclassified nor have there been any changes in the accounting treatment of expenditure from that adopted last year.

Capital Expenditure for the Disclosure Year (Schedule 6a)

13. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-

13.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;

13.2 information on reclassified items in accordance with subclause 2.7.1(2),

Box 10: Explanation of capital expenditure for the disclosure year

With regard to 13.1 above with respect to the materiality threshold MainPower has identified projects as part of our AMP forecasts where the expenditure reclassification is greater than $0.050M.

Non Network Assets purchased amounted to $M.648; (Motor Vehicles $M0.39, Plant & Equipment $M0.244, Computer Equipment $M0.193 and $M0.153 for buildings).

There were no material expenditure reclassifications.

Operational Expenditure for the Disclosure Year (Schedule 6b)

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;

14.2 Information on reclassified items in accordance with subclause 2.7.1(2);

14.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 11: Explanation of operational expenditure for the disclosure year

Operation costs include operational expenditure on the network as detailed in schedule 6b of $M5.096, Land, Building $M0.296 Operational expenditure $M2.632, Staff expenses $M4.456, Office expenses $M1.740, Financial $M0.367, Directors expenses $M0.451, Community $M1.158.

There were no material expenditure reclassifications.

Variance between forecast and actual expenditure (Schedule 7)

15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 12: Explanatory comment on variance in actual to forecast expenditure

Expenditure on Network Assets was 22% under forecast.

Consumer connection expenditure was marginally above forecast (4%).

Capital expenditure on asset replacement and renewal and system growth was below forecast (-39%) due to a change of leadership in the Asset Management team and a realignment of business processes. An initiative focused on industry best practices in asset management has been introduced.

Expenditure on Non Network assets is down significantly ($M2.934) principally due to the deferral of expenditure on Computer hardware & software and motor vehicles as MainPower's continues to review its operations.

Network operational expenditure was up 16% on forecast overall.

Expenditure against service interruptions and emergencies increased significantly (109%) due to the Kaikoura earthquake of November 2016.

Expenditure on vegetation management was below forecast by 18%.

Non Network opex is also up significantly ($M3.581) on the forecast of $M7.519. The increase in cost essentially relates to the establishment of MainPower's new corporate structure for the delivery of a Customer Centric focused organisation. The principal costs associated with the non network opex were: Land, Building $M0.296 Operational expenditure $M2.632, Staff expenses $M4.456, Office expenses $M1.740, Financial $M0.367, Directors expenses $M0.451, Community $M1.158.

No Items have been reclassified nor have there been any changes in the accounting policy.

Information relating to revenues and quantities for the disclosure year

16. In the box below provide-

    16.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and

    16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 13: Explanatory comment relating to revenue for the disclosure year

MainPower's targeted lines charge revenue to March 2017 as per MainPower's pricing disclosure published in March 2016 was $M58.423. MainPower's actual revenue to March 2017 was $M53.426 down $M4.997 on estimate (9%), with 595,056,000 kWh's sold compared to the targeted volume of 643,500,000 kWh's down 48,444,000 kWh's. This reduction in units sold primarily relates to the mild winter, wet spring / summer which occurred in the North Canterbury region.

The November 2016 Waiau earthquakes also had an impact on sales particularly in the northern region.

Network Reliability for the Disclosure Year (Schedule 10)

17. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

Box 14: Commentary on network reliability for the disclosure year

Network planned and unplanned SAIFI were below forecast. Network planned SAIDI was over forecast due to the impact of work higher than normal wet weather on overhead line work, and a reduction in the use of live line work that necessitated outages to complete the planned maintenance work. Network unplanned SAIDI was over forecast as a result of damage resulting from the November 2016 Waiau earthquakes. Transpower unplanned outage SAIDI resulted from the November 2016 Waiau earthquake that damaged switchgear on the 66kV line to Kaikoura.

Insurance cover

18. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

    18.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;

    18.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 15: Explanation of insurance cover

MainPower does not have insurance cover for its distributions system network other than for zone substations, load plant and contained structures. For the year ended 31 March 2017 the amount of insurance cover for the above assets was $M49.246.

MainPower maintains a catastrophic self insurance fund of $3M to provide for such eventualities as earthquakes and major wind storms. The November 2016 earthquake resulted in MainPower drawing down $M1 from the fund to meet the initial damage to the network. Accordingly the fund at 31 March 2017 amounted to $M2.

MainPower has included $.110M of interest income related to this fund in other regulated income as an offset of the cost of self insurance.

MainPower undertakes an actuarial review every 5 -9 years to establish the appropriate funding requirement.

Amendments to previously disclosed information

19. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

    19.1 a description of each error; and

    19.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 16: Disclosure of amendment to previously disclosed information

NO items have been amended with respect to previously years.

Company Name	MainPower New Zealand Ltd
For Year Ended	31 March 2017

Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.

2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts

In preparing the capital expenditure forecasts MainPower has used the Westpac Economics Forecast Summary Sheet as prepared at the 16 December 2016 by Westpac when establishing the Inflation (CPI) movements for the years 2018 to 2027.

Inflation Westpac		2.10%	1.80%	2.00%	1.80%	2.10%	2.10%	2.10%	2.10%	2.10%
16-Dec-16	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts

In preparing the capital expenditure forecasts MainPower has used the Westpac Economics Forecast Summary Sheet as prepared at the 16 December 2016 by Westpac when establishing the Inflation (CPI) movements for the years 2018 to 2027.

Inflation Westpac		2.10%	1.80%	2.00%	1.80%	2.10%	2.10%	2.10%	2.10%	2.10%
16-Dec-16	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027

Company Name	MainPower New Zealand Ltd
For Year Ended	31 March 2016

Schedule 15 Voluntary Explanatory Notes

1. This schedule enables EDBs to provide, should they wish to-

   1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;

   1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.

2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

3. Provide additional explanatory comment in the box below.

Box 1: Voluntary explanatory comment on disclosed information

MainPower New Zealand Limited
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SCHEDULE 18

CERTIFICATION FOR YEAR-END DISCLOSURES

Clause 2.9.2 of section 2.9
Electricity Distribution Information Disclosure Determination 2012

We, ANTHONY CHARLES KING and JANICE EVELYN FREDRIC, being directors of MainPower New Zealand Limited, certify that, having made all reasonable enquiry, to the best of our knowledge –

a) the information prepared for the purposes of clauses 2.3.1 and 2.3.2; and clauses 2.4.21 and 2.4.22; clauses 2.5.1 and 2.5.2; and clauses 2.7.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and

b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10 and 14 has been properly extracted from MainPower New Zealand Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained; and

In respect of related party costs and revenues recorded in accordance with clauses 2.3.6(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Electricity Distribution Services Input Methodologies Determination 2010), 2.3.6(1)(f) and 2.3.7(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arms-length.

ANTHONY CHARLES KING

28 August 2017

JANICE EVELYN FREDRIC

28 August 2017

Deloitte.

INDEPENDENT AUDITOR'S REPORT

TO THE BOARD OF DIRECTORS OF MAINPOWER NEW ZEALAND LIMITED AND THE COMMERCE COMMISSION

Report on the Disclosure Information prepared in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated in 2015)

We have been engaged by the Board of Directors of MainPower New Zealand Limited ('the Company') to conduct a reasonable assurance engagement to provide an opinion on whether Schedules 1 to 4, 5a to 5g, 6a, 6b, 7, the system average interruption duration index ('SAIDI') and system average interruption frequency index ('SAIFI') information disclosed in Schedule 10 and the explanatory notes disclosed in boxes 1 to 12 of Schedule 14 (the "Disclosure Information") of the Company for the disclosure year ended 31 March 2017, have been prepared, in all material respects, in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated in 2015) (the "Determination").

Responsibilities of the Board of Director's for the Disclosure Information

The Board of Directors are responsible for the preparation of the Disclosure Information in accordance with the Determination. This responsibility includes the design, implementation and maintenance of internal control relevant to the Company's compliance with the Determination.

Auditor's Responsibility

Our responsibility is to express an opinion whether, in our opinion, the Company's Disclosure Information has been prepared, in all material respects, in accordance with the Determination. Our engagement has been conducted in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other than Audits or Reviews of Historical Financial Information ("ISAE (NZ) 3000 (Revised)")* and the Standard on Assurance Engagements 3100: *Compliance Engagements* ("SAE 3100") issued by the External Reporting Board, to provide reasonable assurance that the Company has complied with the Determination. Our procedures included:

- reviewing the methodologies used in preparing the Disclosure Information and confirming that they are in accordance with the requirements set out in the Determination;
- identifying key inputs to the information;
- ensuring the information used in preparing the Disclosure Information has been properly extracted from the Company's accounting and other records, sourced from its financial and non-financial systems; and
- ensuring the calculations are mathematically correct.

These procedures have been undertaken to form an opinion as to whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination for the period 1 April 2016 to 31 March 2017.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Inherent Limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected. As the procedures performed for this engagement are not performed continuously throughout the period 1 April 2016 to 31 March 2017 and the procedures performed in respect of the Company's compliance with the Determination in preparing the Disclosure Information are undertaken on a test basis, our assurance engagement cannot be relied on to detect all instances where the Company may not have complied with the Determination. The opinion expressed in this report has been formed on the above basis.

Deloitte.

Our Independence and Quality Control

We have complied with the independence and other ethical requirements of the Professional and Ethical Standard 1 (Revised): *Code of Ethics for Assurance Practitioners* issued by the New Zealand Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

Other than in our capacity as auditor and the provision of indicative share valuation services and due diligence services, we have no relationship with or interests in the Company or any of subsidiaries, except that partners and employees of our firm deal with the Company and its subsidiaries on normal terms within the ordinary course of trading activities of the business of the Company and its subsidiaries.

The firm applies Professional and Ethical Standard 3 (Amended): *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* issued by the New Zealand Auditing and Assurance Standards Board, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Use of Report

This report is provided solely for your use and solely for the purpose of providing you with independent audit assurance whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination. This report is not to be used for any other purpose, recited or referred to in any document, copied or made available (in whole or in part) to any other person without our prior written consent. We accept or assume no duty, responsibility or liability to any party, other than you, in connection with the report or this engagement including without limitation, liability for negligence in relation to the opinion expressed in our report.

Opinion

This opinion has been formed on the basis of, and is subject to, the inherent limitations outlined elsewhere in this independent assurance report.

In our opinion:

- As far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the Company;
- As far as appears from an examination of the records, the information used in the preparation of the Disclosure Information has been properly extracted from the Company's accounting and other records and has been sourced, where appropriate, from the Company's financial and non-financial systems; and
- The Company has complied with the Determination, in all material respects, in preparing the Disclosure Information.

In forming our opinion we have obtained sufficient recorded evidence and all the explanations we have required.

Deloitte Limited

Chartered Accountants

28 August 2017

Christchurch, New Zealand

This audit report relates to the Disclosure Information prepared in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated in 2015) (the "Determination") of MainPower New Zealand Limited (the 'Company') for the period 1 April 2016 to 31 March 2017 included on the Company's website. The Directors are responsible for the maintenance and integrity of the Company's website. We have not been engaged to report on the integrity of the Company's website. We accept no responsibility for any changes that may have occurred to the report on the Determination since they were initially presented on the website. The audit report refers only to the report on the Determination named above. It does not provide an opinion on any other information which may have been hyperlinked to/ from the report on the Determination. If readers of this report are concerned with the inherent risks arising from electronic data communication they should refer to the published hard copy of the report on the Determination and related audit report dated 28 August 2017 to confirm the information included in the report on the Determination presented on this website.