



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

Company Name	Mainpower New Zealand Limited
Disclosure Date	31 March 2018
Disclosure Year (year ended)	31 March 2018

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

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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 2018**

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	24,381	385	130,332	2,934	26,584
Network	5,290	84	28,279	637	5,768
Non-network	19,091	302	102,053	2,297	20,816
Expenditure on assets	17,008	269	90,918	2,047	18,545
Network	14,833	234	79,292	1,785	16,173
Non-network	2,175	34	11,626	262	2,371

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	97,332	1,538
Standard consumer line charge revenue	106,010	1,494
Non-standard consumer line charge revenue	25,824	1,688,277

1(iii): Service intensity measures

Demand density	23	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	120	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	15,800	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	14,728	24.65%
Pass-through and recoverable costs excluding financial incentives and wash-ups	15,967	26.72%
Total depreciation	12,327	20.63%
Total revaluations	2,770	4.64%
Regulatory tax allowance	1,118	1.87%
Regulatory profit/(loss) including financial incentives and wash-ups	18,387	30.77%
Total regulatory income	59,756	

1(v): Reliability

Interruption rate	10.90	Interruptions per 100 circuit km
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Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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 16	31 Mar 17	31 Mar 18
				%	%	%
7	ROI – comparable to a post tax WACC					
8						
9						
10	Reflecting all revenue earned	TRUE	TRUE	7.22%	6.27%	7.04%
11	Excluding revenue earned from financial incentives	TRUE	TRUE	7.22%	6.27%	7.04%
12	Excluding revenue earned from financial incentives and wash-ups	TRUE	TRUE	7.22%	6.27%	7.04%
13		TRUE	TRUE			
14	Mid-point estimate of post tax WACC	TRUE	TRUE	5.37%	4.77%	5.04%
15	25th percentile estimate	TRUE	TRUE	4.66%	4.05%	4.36%
16	75th percentile estimate	TRUE	TRUE	6.09%	5.48%	5.72%
17		TRUE	TRUE			
18		TRUE	TRUE			
19	ROI – comparable to a vanilla WACC	TRUE	TRUE			
20	Reflecting all revenue earned	TRUE	TRUE	7.87%	6.81%	7.63%
21	Excluding revenue earned from financial incentives	TRUE	TRUE	7.87%	6.81%	7.63%
22	Excluding revenue earned from financial incentives and wash-ups	TRUE	TRUE	7.87%	6.81%	7.63%
23						
24	WACC rate used to set regulatory price path			N/A	N/A	N/A
25						
26	Mid-point estimate of vanilla WACC			6.02%	5.31%	5.60%
27	25th percentile estimate			5.30%	4.59%	4.92%
28	75th percentile estimate			6.74%	6.03%	6.29%
29						
30	2(ii): Information Supporting the ROI			(\$'000)		
31						
32	Total opening RAB value			253,649		
33	plus Opening deferred tax			(6,077)		
34	Opening RIV				247,572	
35						
36	Line charge revenue				58,793	
37						
38	Expenses cash outflow			30,694		
39	add Assets commissioned			5,683		
40	less Asset disposals			1,684		
41	add Tax payments			465		
42	less Other regulated income			963		
43	Mid-year net cash outflows				34,195	
44						
45	Term credit spread differential allowance				–	
46						
47	Total closing RAB value			248,091		
48	less Adjustment resulting from asset allocation			0		
49	less Lost and found assets adjustment			–		
50	plus Closing deferred tax			(6,730)		
51	Closing RIV				241,361	
52						
53	ROI – comparable to a vanilla WACC					7.63%
54						
55	Leverage (%)					44%
56	Cost of debt assumption (%)					4.80%
57	Corporate tax rate (%)					28%
58						
59	ROI – comparable to a post tax WACC					7.04%
60						

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

2(iii): Information Supporting the Monthly ROI

Opening RIV N/A

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						-
May						-
June						-
July						-
August						-
September						-
October						-
November						-
December						-
January						-
February						-
March						-
Total	-	-	-	-	-	-

Tax payments N/A

Term credit spread differential allowance N/A

Closing RIV N/A

Monthly ROI – comparable to a vanilla WACC N/A

Monthly ROI – comparable to a post tax WACC N/A

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

Year-end ROI – comparable to a vanilla WACC 7.34%

Year-end ROI – comparable to a post tax WACC 6.75%

** 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

Net recoverable costs allowed under incremental rolling incentive scheme -

Purchased assets – avoided transmission charge -

Energy efficiency and demand incentive allowance -

Quality incentive adjustment -

Other financial incentives -

Financial incentives -

Impact of financial incentives on ROI -

Input methodology claw-back -

Recoverable customised price-quality path costs -

Catastrophic event allowance -

Capex wash-up adjustment -

Transmission asset wash-up adjustment -

2013–2015 NPV wash-up allowance -

Reconsideration event allowance -

Other wash-ups -

Wash-up costs -

Impact of wash-up costs on ROI -

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

3(i): Regulatory Profit		(\$000)
7	Income	
8	Line charge revenue	58,793
9	plus Gains / (losses) on asset disposals	587
10	plus Other regulated income (other than gains / (losses) on asset disposals)	376
11		
12	Total regulatory income	59,756
13	Expenses	
14	less Operational expenditure	14,728
15	less Pass-through and recoverable costs excluding financial incentives and wash-ups	15,967
16		
17	Operating surplus / (deficit)	29,062
18	less Total depreciation	12,327
19	plus Total revaluations	2,770
20		
21	Regulatory profit / (loss) before tax	19,505
22	less Term credit spread differential allowance	-
23	less Regulatory tax allowance	1,118
24		
25	Regulatory profit/(loss) including financial incentives and wash-ups	18,387
26		
27		
28		
29		
30		
31		
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	281
36	Commerce Act levies	54
37	Industry levies	180
38	CPP specified pass through costs	
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	13,895
41	Transpower new investment contract charges	1,557
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	15,967
47		

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

		(\$000)	
		CY-1 31 Mar 17	CY 31 Mar 18
48	3(iii): Incremental Rolling Incentive Scheme		
49			
50			
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
56			
57	CY-5 31 Mar 13		
58	CY-4 31 Mar 14		
59	CY-3 31 Mar 15		
60	CY-2 31 Mar 16		
61	CY-1 31 Mar 17		
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
70			(\$000)
66	Merger and acquisition expenditure		
67			
68	<i>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)</i>		
69	3(v): Other Disclosures		
70			(\$000)
71	Self-insurance allowance		

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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 14 (\$000)	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)
	Total opening RAB value	202,799	221,540	231,674	247,342	253,649
	less Total depreciation	10,483	10,976	11,491	12,198	12,327
	plus Total revaluations	3,104	185	1,359	5,350	2,770
	plus Assets commissioned	26,375	22,346	25,946	13,540	5,683
	less Asset disposals	255	1,421	146	385	1,684
	plus Lost and found assets adjustment					-
	plus Adjustment resulting from asset allocation					0
	Total closing RAB value	221,540	231,674	247,342	253,649	248,091

4(ii): Unallocated Regulatory Asset Base		Unallocated RAB *		RAB	
		(\$000)	(\$000)	(\$000)	(\$000)
	Total opening RAB value		253,649		253,649
	less Total depreciation		12,327		12,327
	plus Total revaluations		2,769.96		2,769.96
	plus Assets commissioned (other than below)	5,683		5,683	
	Assets acquired from a regulated supplier				
	Assets acquired from a related party				
	Assets commissioned		5,683		5,683
	less Asset disposals (other than below)	1,684		1,684	
	Asset disposals to a regulated supplier				
	Asset disposals to a related party				
	Asset disposals		1,684		1,684
	plus Lost and found assets adjustment				
	plus Adjustment resulting from asset allocation				0
	Total closing RAB value		248,091		248,091

* 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 2018**

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

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

CPI _t	1,011
CPI _{t-4}	1,000
Revaluation rate (%)	1.10%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	253,649		253,649	
less Opening value of fully depreciated, disposed and lost assets	1,834		1,834	
Total opening RAB value subject to revaluation	251,815		251,815	
Total revaluations		2,770		2,770

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction		Allocated works under construction	
Works under construction—preceding disclosure year		1,664		1,664
plus Capital expenditure	5,612		5,612	
less Assets commissioned	5,683		5,683	
plus Adjustment resulting from asset allocation				
Works under construction - current disclosure year		1,593		1,593
Highest rate of capitalised finance applied				n/a

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

76 **4(v): Regulatory Depreciation**

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
79 Depreciation - standard	10,742		10,742	
80 Depreciation - no standard life assets	1,585		1,585	
81 Depreciation - modified life assets				
82 Depreciation - alternative depreciation in accordance with CPP				
83 Total depreciation		12,327		12,327

85 **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

96 **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
99 Total opening RAB value	18,607	755	27,676	60,288	52,440	41,363	11,766	12,664	28,090	253,649
100 less Total depreciation	808	30	1,277	3,349	1,801	1,806	942	729	1,585	12,327
101 plus Total revaluations	205	8	304	663	577	455	130	139	289	2,770
102 plus Assets commissioned	284		197	1,978	1,202	(292)	505	495	1,314	5,683
103 less Asset disposals									1,684	1,684
104 plus Lost and found assets adjustment										-
105 plus Adjustment resulting from asset allocation										-
106 plus Asset category transfers										-
107 Total closing RAB value	18,288	733	26,900	59,580	52,418	39,720	11,459	12,569	26,424	248,091
109 Asset Life										
110 Weighted average remaining asset life	23.0	25.1	21.7	18.0	29.1	22.9	12.5	17.4	17.7	(years)
111 Weighted average expected total asset life	51.0	47.8	34.3	47.4	47.8	45.7	36.3	37.2	25.4	(years)

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		19,505
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable		*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible		*
12	Amortisation of initial differences in asset values	1,048	
13	Amortisation of revaluations	1,151	
14			2,199
15			
16	<i>less</i> Total revaluations	2,770	
17	Income included in regulatory profit / (loss) before tax but not taxable		*
18	Discretionary discounts and customer rebates	9,833	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax		*
20	Notional deductible interest	5,108	
21			17,711
22			
23	Regulatory taxable income		3,994
24			
25	<i>less</i> Utilised tax losses		
26	Regulatory net taxable income		3,994
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		1,118

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

		(\$000)	
34	5a(iii): Amortisation of Initial Difference in Asset Values		
35			
36	Opening unamortised initial differences in asset values	13,648	
37	<i>less</i> Amortisation of initial differences in asset values	1,048	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired		
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed		
40	Closing unamortised initial differences in asset values		12,600
41			
42	Opening weighted average remaining useful life of relevant assets (years)		13.02
43			

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

sch ref

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations	236,606	
47			
48	Adjusted depreciation	11,176	
49	Total depreciation	12,327	
50	Amortisation of revaluations		1,151
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	(6,077)	
61			
62	plus Tax effect of adjusted depreciation	3,129	
63			
64	less Tax effect of tax depreciation	3,431	
65			
66	plus Tax effect of other temporary differences*	(65)	
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	(8)	
73			
74	plus Deferred tax cost allocation adjustment	(0)	
75			
76	Closing deferred tax		(6,730)
77			
78	5a(vii): Disclosure of Temporary Differences		
79	<i>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).</i>		
80			
81	5a(viii): Regulatory Tax Asset Base Roll-Forward		(\$000)
82			
83	Opening sum of regulatory tax asset values	240,162	
84	less Tax depreciation	12,254	
85	plus Regulatory tax asset value of assets commissioned	9,589	
86	less Regulatory tax asset value of asset disposals	1,733	
87	plus Lost and found assets adjustment		
88	plus Adjustment resulting from asset allocation		
89	plus Other adjustments to the RAB tax value		
90	Closing sum of regulatory tax asset values		235,764

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

7 5b(i): Summary—Related Party Transactions		(S000)
8	Total regulatory income	
9	Operational expenditure	38
10	Capital expenditure	
11	Market value of asset disposals	
12	Other related party transactions	

13 **5b(ii): Entities Involved in Related Party Transactions**

14	Name of related party	Related party relationship
15	Vircom Energy Management Services Limited	Mainpower New Zealand owns 100% of the related party.
16		
17		
18		
19		

20 * include additional rows if needed

21 **5b(iii): Related Party Transactions**

22	Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
23	Vircom Energy Management Services Limited	Opex	Expenditure on Non-Network	38	ID clause 2.3.6(1)(a)
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					

38 * include additional rows if needed

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

		Value allocated (\$000s)			OVABAA allocation increase (\$000s)
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	
7	5d(i): Operating Cost Allocations				
8					
9					
10	Service interruptions and emergencies				
11	Directly attributable		1,162		
12	Not directly attributable				-
13	Total attributable to regulated service		1,162		
14	Vegetation management				
15	Directly attributable		433		
16	Not directly attributable				-
17	Total attributable to regulated service		433		
18	Routine and corrective maintenance and inspection				
19	Directly attributable		1,601		
20	Not directly attributable				-
21	Total attributable to regulated service		1,601		
22	Asset replacement and renewal				
23	Directly attributable				
24	Not directly attributable				-
25	Total attributable to regulated service		-		
26	System operations and network support				
27	Directly attributable		5,344		
28	Not directly attributable		25		25
29	Total attributable to regulated service		5,369		
30	Business support				
31	Directly attributable		5,769		
32	Not directly attributable		394		394
33	Total attributable to regulated service		6,163		
34					
35	Operating costs directly attributable		14,309		
36	Operating costs not directly attributable	-	419	-	419
37	Operational expenditure		14,728		
38					

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

39 **5d(ii): Other Cost Allocations**

		(\$000)
40	Pass through and recoverable costs	
41	Pass through costs	
42	Directly attributable	515
43	Not directly attributable	
44	Total attributable to regulated service	515
45	Recoverable costs	
46	Directly attributable	15,452
47	Not directly attributable	
48	Total attributable to regulated service	15,452

50 **5d(iii): Changes in Cost Allocations* †**

		(\$000)	
		CY-1	Current Year (CY)
52	Change in cost allocation 1		
53	Cost category		
54	Original allocator or line items		
55	New allocator or line items		
56		-	-
57	Rationale for change		

		(\$000)	
		CY-1	Current Year (CY)
61	Change in cost allocation 2		
62	Cost category		
63	Original allocator or line items		
64	New allocator or line items		
65		-	-
66	Rationale for change		

		(\$000)	
		CY-1	Current Year (CY)
70	Change in cost allocation 3		
71	Cost category		
72	Original allocator or line items		
73	New allocator or line items		
74		-	-
75	Rationale for change		

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 2018

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
7	Subtransmission lines	
11	Directly attributable	18,288
12	Not directly attributable	
13	Total attributable to regulated service	18,288
14	Subtransmission cables	
15	Directly attributable	733
16	Not directly attributable	
17	Total attributable to regulated service	733
18	Zone substations	
19	Directly attributable	26,900
20	Not directly attributable	
21	Total attributable to regulated service	26,900
22	Distribution and LV lines	
23	Directly attributable	59,580
24	Not directly attributable	
25	Total attributable to regulated service	59,580
26	Distribution and LV cables	
27	Directly attributable	52,418
28	Not directly attributable	
29	Total attributable to regulated service	52,418
30	Distribution substations and transformers	
31	Directly attributable	39,720
32	Not directly attributable	
33	Total attributable to regulated service	39,720
34	Distribution switchgear	
35	Directly attributable	11,458
36	Not directly attributable	
37	Total attributable to regulated service	11,458
38	Other network assets	
39	Directly attributable	12,569
40	Not directly attributable	
41	Total attributable to regulated service	12,569
42	Non-network assets	
43	Directly attributable	26,425
44	Not directly attributable	
45	Total attributable to regulated service	26,425
46		
47	Regulated service asset value directly attributable	248,091
48	Regulated service asset value not directly attributable	-
49	Total closing RAB value	248,091

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
53	Change in asset value allocation 1		
54	Asset category		
55	Original allocator or line items		
56	New allocator or line items		
57			
58	Rationale for change		
59			
60			
61			
62	Change in asset value allocation 2		
63	Asset category		
64	Original allocator or line items		
65	New allocator or line items		
66			
67	Rationale for change		
68			
69			
70			
71	Change in asset value allocation 3		
72	Asset category		
73	Original allocator or line items		
74	New allocator or line items		
75			
76	Rationale for change		
77			
78			

* 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 2018**

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

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7	6a(i): Expenditure on Assets		(\$000)	(\$000)
8	Consumer connection			6,756
9	System growth			99
10	Asset replacement and renewal			1,564
11	Asset relocations			121
12	Reliability, safety and environment:			
13	Quality of supply	28		
14	Legislative and regulatory	-		
15	Other reliability, safety and environment	392		
16	Total reliability, safety and environment			420
17	Expenditure on network assets			8,960
18	Expenditure on non-network assets			1,314
19				
20	Expenditure on assets			10,274
21	plus Cost of financing			
22	less Value of capital contributions			4,662
23	plus Value of vested assets			
24				
25	Capital expenditure			5,612
26	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			4
29	Research and development			
30	6a(iii): Consumer Connection			
31	<i>Consumer types defined by EDB*</i>		(\$000)	(\$000)
32	Residential		3,972	
33	Large User		802	
34	Irrigation		1,831	
35	Other		151	
36				
37	<i>* include additional rows if needed</i>			
38	Consumer connection expenditure			6,756
39				
40	less Capital contributions funding consumer connection expenditure		4,662	
41	Consumer connection less capital contributions			2,094
42	6a(iv): System Growth and Asset Replacement and Renewal			
43			System Growth	Asset Replacement and Renewal
44			(\$000)	(\$000)
45	Subtransmission	9		102
46	Zone substations			
47	Distribution and LV lines	51		1,334
48	Distribution and LV cables	39		122
49	Distribution substations and transformers			6
50	Distribution switchgear			
51	Other network assets			
52	System growth and asset replacement and renewal expenditure	99		1,564
53	less Capital contributions funding system growth and asset replacement and renewal			
54	System growth and asset replacement and renewal less capital contributions	99		1,564
55				
56	6a(v): Asset Relocations			
57	<i>Project or programme*</i>		(\$000)	(\$000)
58				
59				
60				
61				
62				
63	<i>* include additional rows if needed</i>			
64	All other projects or programmes - asset relocations		121	
65	Asset relocations expenditure			121
66	less Capital contributions funding asset relocations			
67	Asset relocations less capital contributions			121

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

68				
69	6a(vi): Quality of Supply			
70	Project or programme*	(\$000)	(\$000)	
71				
72				
73				
74				
75				
76	* include additional rows if needed			
77	All other projects programmes - quality of supply	28		
78	Quality of supply expenditure		28	
79	less Capital contributions funding quality of supply			
80	Quality of supply less capital contributions		28	
81	6a(vii): Legislative and Regulatory			
82	Project or programme*	(\$000)	(\$000)	
83				
84				
85				
86				
87				
88	* include additional rows if needed			
89	All other projects or programmes - legislative and regulatory			
90	Legislative and regulatory expenditure		-	
91	less Capital contributions funding legislative and regulatory			
92	Legislative and regulatory less capital contributions		-	
93	6a(viii): Other Reliability, Safety and Environment			
94	Project or programme*	(\$000)	(\$000)	
95				
96				
97				
98				
99				
100	* include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	392		
102	Other reliability, safety and environment expenditure		392	
103	less Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions		392	
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	Project or programme*	(\$000)	(\$000)	
109	Buildings	387		
110	Motor Vehicles	52		
111	Plant & Equipment	52		
112	Computer hardware and software	821		
113	Office	2		
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure			
116	Routine expenditure		1,314	
117	Atypical expenditure			
118	Project or programme*	(\$000)	(\$000)	
119				
120				
121				
122				
123				
124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure			
126	Atypical expenditure		-	
127				
128	Expenditure on non-network assets		1,314	

Company Name **Ennpower New Zealand Limited**
 For Year Ended **31 March 2018**

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	1,162	
9	Vegetation management	433	
10	Routine and corrective maintenance and inspection	1,601	
11	Asset replacement and renewal		
12	Network opex		3,196
13	System operations and network support	5,369	
14	Business support	6,163	
15	Non-network opex		11,532
16			
17	Operational expenditure		14,728
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		528
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 2018****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(i): Revenue			
Line charge revenue	55,115	58,793	7%
7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
Consumer connection	4,614	6,756	46%
System growth	436	99	(77%)
Asset replacement and renewal	7,298	1,564	(79%)
Asset relocations		121	–
Reliability, safety and environment:			
Quality of supply	100	28	(72%)
Legislative and regulatory	–	–	–
Other reliability, safety and environment	593	392	(34%)
Total reliability, safety and environment	693	420	(39%)
Expenditure on network assets	13,041	8,960	(31%)
Expenditure on non-network assets	3,582	1,314	(63%)
Expenditure on assets	16,623	10,274	(38%)
7(iii): Operational Expenditure			
Service interruptions and emergencies	1,550	1,162	(25%)
Vegetation management	1,000	433	(57%)
Routine and corrective maintenance and inspection	2,827	1,601	(43%)
Asset replacement and renewal	–	–	–
Network opex	5,377	3,196	(41%)
System operations and network support	3,045	5,369	76%
Business support	4,474	6,163	38%
Non-network opex	7,519	11,532	53%
Operational expenditure	12,896	14,728	14%
7(iv): Subcomponents of Expenditure on Assets (where known)			
Energy efficiency and demand side management, reduction of energy losses		–	–
Overhead to underground conversion		4	–
Research and development		–	–
7(v): Subcomponents of Operational Expenditure (where known)			
Energy efficiency and demand side management, reduction of energy losses		–	–
Direct billing		–	–
Research and development		–	–
Insurance	354	528	49%

¹ From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

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 2018**
 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

31
32
33
34
35
36
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46
47
48
49
50
51
52
53

Price component	Line charge revenues (\$000) by price component						Add extra	
	Distribution fixed charge	Distribution variable charge	Transmission variable charge	Large User Distribution variable	Large User transmission variable	Non standard fixed charge	Non standard	Year end accrual
	cents / day	c / kWh	c / kWh	c / kWh	c / kWh	\$ / day	c / kWh	\$
Tarriff 101 Mainpower (MP)	\$1,043	\$13,700	\$4,921					
Tarriff 102 MP	\$284	\$1,220	\$439					
Tarriff 103 MP	\$80	\$181	\$8					
Tarriff 111 MP	\$475	\$3,792	\$1,362					
Tarriff 112 MP	\$26	\$285	\$81					
Tarriff 113 MP	\$0	\$30	\$19					
Tarriff 121 MP	\$929	\$9,064	\$3,261					
Tarriff 122 MP	\$88	\$36	\$10					
Tarriff 124 MP	\$413	\$5,589	\$2,012					
Tarriff 125 MP	\$9	\$704	\$252					
Tarriff 126 MP	-	\$270	\$97					
Tarriff 130 MP	\$5			\$2,141	\$1,305			
Tarriff 140 MP						\$221	\$1,467	
Tarriff 201 Kaipoi (KE)	\$50	\$321	\$339					
Tarriff 202 KE	\$2	\$5	\$5					
Tarriff 203 KE	\$5	\$6	\$1					
Tarriff 211 KE	\$37	\$148	\$157					
Tarriff 212 KE	\$0	\$4	\$3					
Tarriff 213 KE	\$0	\$0	\$2					
Tarriff 221 KE	\$38	\$246	\$259					
Tarriff 222 KE	\$1	\$1	\$0					
Tarriff 225 KE	\$1	\$26	\$27					
Tarriff 226 KE		\$12	\$12					
Tarriff 230 KE	\$2			\$302	\$460			
Electricity Revenue accrual								\$502
Standard consumer totals	\$3,488	\$35,640	\$13,267	\$2,443	\$1,765	-	-	\$502
Non-standard consumer totals	-	-	-	-	-	\$221	\$1,467	-
Total for all consumers	\$3,488	\$35,640	\$13,267	\$2,443	\$1,765	\$221	\$1,467	\$502

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

Standard consumer totals	\$57,105	-
Non-standard consumer totals	\$1,688	-
Total for all consumers	\$58,793	-

Total distribution line charge revenue	\$41,571	\$15,534
Total transmission line charge revenue (if available)	\$221	\$1,467
	\$41,792	\$17,001

8(iii): Number of ICPs directly billed

Check OK

Number of directly billed ICPs at year end

Company Name **Mainpower New Zealand Limited**

For Year Ended **31 March 2018**

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

sch ref	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Net change	Data accuracy
					year (quantity)	year (quantity)		(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	8,069	8,418	349	3
9	All	Overhead Line	Wood poles	No.	48,484	48,181	(303)	2
10	All	Overhead Line	Other pole types	No.	73	2	(71)	4
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	373	373	-	3
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	4
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	3	4	1	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	4
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	4
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	4
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	4
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	15	16	1	3
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	4
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	30	30	-	4
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	20	18	(2)	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	3
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	46	46	-	3
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	4
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	3
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	14	14	-	3
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	23	23	-	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	23	23	-	3
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	26	26	-	4
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,301	3,311	10	2
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	4
36	HV	Distribution Line	SWER conductor	km	118	119	1	2
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	258	264	6	3
38	HV	Distribution Cable	Distribution UG PILC	km	55	56	1	3
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	4
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	81	80	(1)	3
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	9	9	-	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,574	9,656	82	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	357	377	20	3
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,397	7,448	51	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	788	811	23	4
47	HV	Distribution Transformer	Voltage regulators	No.	12	12	-	3
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	774	793	19	2
49	LV	LV Line	LV OH Conductor	km	237	237	0	1
50	LV	LV Cable	LV UG Cable	km	639	659	20	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	425	435	10	3
52	LV	Connections	OH/UG consumer service connections	No.	43,223	44,068	845	1
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	326	320	(6)	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	224	224	-	3
55	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	4
56	All	Load Control	Centralised plant	Lot	8	8	-	4
57	All	Load Control	Relays	No.	25,264	25,083	(181)	3
58	All	Civils	Cable Tunnels	km	-	-	-	4

Company Name	Mainpower New Zealand Limited
For Year Ended	31 March 2018
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

sch ref	Disclosure Year (year ended)	Number of assets at disclosure year end by installation date																												No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1-4)	
		31 March 2018	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	2018						
9	Voltage	Asset category	Asset class	Units	20	6	382	420	860	1705	495	26	47	65	305	140	92	81	64	114	89	290	172	228	398	494	508	684	388	257	88	8,418		3
10	All	Overhead Line	Concrete poles / steel structure	No.	1935	788	2277	3896	5239	9216	8978	553	758	603	450	802	1245	853	822	991	1519	1156	823	788	644	725	864	831	723	267	435	48,181		2
11	All	Overhead Line	Wood poles	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2		4
12	All	Overhead Line	Other pole types	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		4
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	5.15	0	0	32.83	49.14	115.2	30.68	1.529	0.6637	12.85	17.62	0	0	0.2693	0.846	0.3857	0	1.485	0	82.84	2.683	3.968	10.06	5.279	0	0		373		3
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	0	0	0	0	0.2117	1.782	0.199	0	0	0	0	0	0	0	0	0	0	0.6547	0.04528	0	0	0	0	0	0	0.9133		4		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			4
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	0	0	0	0	9	2	1	0	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0		16		3
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				4
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	8	0	0	0	1	0	12	0	0		30		4	
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	0	0	0	0	4	3	1	0	0	0	0	0	0	0	0	8	0	1	0	0	0	0	1	0	0		18		4	
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	0	0	0	2	23	12	0	0	0	1	0	0	0	0	1	0	3	0	2	0	0	1	1	0	0		46		3	
30	HV	Zone substation switchgear	33kV RMU	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				4	
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				3	
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	3	0	0	0	1	4	1	0		14		3	
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	0	0	0	0	8	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		23		3	
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	0	0	0	1	0	1	0	0	0	0	0	1	1	0	1	0	12	3	0	0	2	1	0	0	0		23		3	
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	0	0	0	2	4	4	3	0	0	0	0	2	0	0	0	2	5	0	0	0	0	4	0	0	0		26		4	
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	29.39	0.2256	5.961	132.3	532.4	1.12E+03	818.6	36.29	23.81	38.53	43.64	35.95	53.81	39.7	40.02	37.56	65.73	37.27	30.01	23.3	47.75	30.12	45.53	15.06	14.99	12.96		3,311		2
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				4	
38	HV	Distribution Line	SWER conductor	km	0	0	0	14.44	27.83	65.85	4.087	0	1.711	0	0.3518	0	2.255	1.868	0.345	0	0	0	0	0	0	0	0	0	0		119		2	
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	0.09448	0	0	0	3.503	4.896	27.93	4.823	9.111	9.319	1.793	13.26	8.674	10.54	11.62	16.23	20.5	8.985	19.35	11.6	16.24	13.16	13.78	21.86	10.45	6.536		264		3
40	HV	Distribution Cable	Distribution UG PILC	km	0.06532	0	0	1.244	22.16	17.42	12.95	0.6889	0	0	0	0	0	0	0	0	0.4341	0.723	0	0	0	0	0.1037	0.07714	0.007762		56		3	
41	HV	Distribution Cable	Distribution Submarine Cable	km	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				4	
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	0	0	0	0	1	10	10	0	0	0	0	1	1	1	3	0	8	3	1	2	12	12	15	0	0		80		3	
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	0	0	0	0	1	1	1	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	1	2	0		9		3	
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	136	2	4	1857	284	1829	1074	144	130	130	175	144	204	193	157	162	144	122	133	252	506	504	410	447	349	164		9,656		2
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				2	
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	3	0	3	0	12	84	51	15	7	5	8	14	9	12	10	7	14	11	20	13	22	19	17	11	9	1		377		3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	16	2	15	483	1342	873	1075	210	202	200	196	231	283	238	124	217	187	139	162	87	426	257	109	276	49	49		7,448		4
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	7	0	1	28	95	78	79	13	13	20	22	16	27	41	36	50	43	19	24	16	41	48	30	42	14	8		811		4
49	HV	Distribution Transformer	Voltage regulators	No.	0	0	0	0	1	0	0	0	0	0	2	4	4	0	0	1	0	0	0	0	0	0	0	0	0		12		3	
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	2	0	1	145	26	91	97	12	18	19	22	29	22	26	19	20	16	15	22	21	25	31	38	35	27	14		793		2
51	LV	LV Line	LV OH Conductor	km	5.045	0.01637	0.7152	9.741	109.9	57.11	35.66	0.9905	1.911	1.418	1.374	1.222	1.041	1.254	0.5964	0.9027	1.414	2.54	1.811	1.841	0.4234	0	0.04807	0	0.1869	0.1315		237		1
52	LV	LV Cable	LV UG Cable	km	3.931	0	0	0	78.39	71.7	107.6	12.24	13.5	8.988	10.4	22.5	23.55	23.18	26.28	34.49	18.9	24.14	13.09	19.19	34.75	23.2	26.51	23.8	23.91	14.5		659		3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	2.105	0	0	0.725	198.7	32.09	7.598	0.6968	8.532	2.452	3.283	7.758	9.391	7.558	12.37	12.13	5.131	13.84	10.54	11.14	16.16	14.6	19.57	16	12.8	10.26		435		3
54	LV	Connections	OH/UG consumer service connections	No.	459	116	685	1172	6679	5509	5966	673	1006	573	785	948	1290	1342	1175	1538	1152	1215	943	1154	1706	1126	1785	1810	2199	1062		44,		

Company Name **Mainpower New Zealand Limited**

For Year Ended **31 March 2018**

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	156	4	159
14	SWER (all SWER voltages)	117	2	119
15	22kV (other than SWER)	962	60	1,022
16	6.6kV to 11kV (inclusive—other than SWER)	2,343	262	2,605
17	Low voltage (< 1kV)	237	659	896
18	Total circuit length (for supply)	4,032	988	5,020
19				
20	Dedicated street lighting circuit length (km)	18	408	426
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				
23	Overhead circuit length by terrain (at year end)	(% of total circuit length (km) overhead length)		
24	Urban	52		1%
25	Rural	2,412		60%
26	Remote only	1,441		36%
27	Rugged only	127		3%
28	Remote and rugged			–
29	Unallocated overhead lines			–
30	Total overhead length	4,032		100%
31				
32		(% of total circuit length (km) length)		
33	Length of circuit within 10km of coastline or geothermal areas (where known)	2,083		41%
34		(% of total circuit length (km) overhead length)		
35	Overhead circuit requiring vegetation management	2,110		52%

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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			
9			
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 2018**

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

8	9e(i): Consumer Connections		
9	<i>Number of ICPs connected in year by consumer type</i>		
10	<i>Consumer types defined by EDB*</i>	Number of connections (ICPs)	
11	Residential	777	
12	Irrigation	77	
13	Other	97	
14	[EDB consumer type]		
15	[EDB consumer type]		
16	<i>* include additional rows if needed</i>		
17	Connections total	951	
18			
19	Distributed generation		
20	Number of connections made in year	189	connections
21	Capacity of distributed generation installed in year	0.82	MVA
22	9e(ii): System Demand		
23			
24			
25	Maximum coincident system demand		Demand at time of maximum coincident demand (MW)
26	GXP demand	111	
27	plus Distributed generation output at HV and above	2	
28	Maximum coincident system demand	113	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	113	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	613	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	17	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	630	
37	less Total energy delivered to ICPs	604	
38	Electricity losses (loss ratio)	26	4.1%
39			
40	Load factor	0.64	
41	9e(iii): Transformer Capacity		
42			(MVA)
43	Distribution transformer capacity (EDB owned)	554	
44	Distribution transformer capacity (Non-EDB owned, estimated)	5	
45	Total distribution transformer capacity	559	
46			
47	Zone substation transformer capacity	135	

Company Name **Mainpower New Zealand Limited**

For Year Ended **31 March 2018**

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

8	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)		-
11	Class B (planned interruptions on the network)		382
12	Class C (unplanned interruptions on the network)		164
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		547
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	123	41
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	-	-
26	Class B (planned interruptions on the network)	0.31	87.93
27	Class C (unplanned interruptions on the network)	1.16	79.57
28	Class D (unplanned interruptions by Transpower)	0.13	6.68
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	1.60	174.2
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)	1.29	162.6
38			
39	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	1.60	128.5
41	* not applicable to exempt EDBs		

Company Name **Mainpower New Zealand Limited**

For Year Ended **31 March 2018**

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	0.03	2.07
Vegetation	0.07	4.59
Adverse weather	0.10	6.97
Adverse environment	0.00	0.00
Third party interference	0.24	19.53
Wildlife	0.09	6.49
Human error	-	-
Defective equipment	0.51	33.42
Cause unknown	0.11	6.49

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	0.5
Subtransmission cables	0.00	0.3
Subtransmission other	-	-
Distribution lines (excluding LV)	0.24	68.01
Distribution cables (excluding LV)	0.03	8.92
Distribution other (excluding LV)	0.04	10.19

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.01	1.3
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.76	56.3
Distribution cables (excluding LV)	0.35	19.5
Distribution other (excluding LV)	0.03	2.5

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	1	385	0.26
Subtransmission cables	-	3	-
Subtransmission other	-	-	-
Distribution lines (excluding LV)	136	3,411	3.99
Distribution cables (excluding LV)	7	310	2.26
Distribution other (excluding LV)	20	-	0
Total	164		



**EDB Information Disclosure Requirements
Information Templates
for
Schedules 5f & 5g**

Company Name	Mainpower New Zealand Limited
Disclosure Date	31 March 2018
Disclosure Year (year ended)	31 March 2018

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

Table of Contents

Schedule	Schedule name
5f	REPORT SUPPORTING COST ALLOCATIONS
5g	REPORT SUPPORTING ASSET ALLOCATIONS

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 2018**

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

7	Have costs been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination?										
8											Yes
9											
10	Line Item*	Allocation methodology type	Cost allocator	Allocator type	Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)	
11					Electricity distribution services	Non-electricity distribution services	Arm's length deduction	Electricity distribution services	Non-electricity distribution services		Total
12	Service interruptions and emergencies										
13											-
14											-
15											-
16											-
17	Not directly attributable										
18	Vegetation management										
19											-
20											-
21											-
22											-
23	Not directly attributable										
24	Routine and corrective maintenance and inspection										
25											-
26											-
27											-
28											-
29	Not directly attributable										
30	Asset replacement and renewal										
31											-
32											-
33											-
34											-
35	Not directly attributable										
36											-

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

37	System operations and network support										
38	Land, Buildings	ACAM			100.00%			3		3	
39	Staff Expenses	ACAM			100.00%			14		14	
40	Office Expenses	ACAM			100.00%			8		8	
41										-	
42	Not directly attributable							-	25	-	25
43	Business support										
44	Land, Buildings	ACAM			100.00%			2		2	
45	Staff Expenses	ACAM			100.00%			243		243	
46	Office Expenses	ACAM			100.00%			-		-	
46	Finance	ACAM			100.00%			-		-	
47	Community	ACAM			100.00%			57		57	
47	Directors fees and expenses	ACAM			100.00%			92		92	
48	Not directly attributable							-	394	-	394
49											
50	Operating costs not directly attributable							-	419	-	419
51											
52	Pass through and recoverable costs										
53	Pass through costs										
54										-	
55										-	
56										-	
57										-	
58	Not directly attributable							-	-	-	-
59	Recoverable costs										
60										-	
61										-	
62										-	
63										-	
64	Not directly attributable							-	-	-	-

* include additional rows if needed

Company Name **Mainpower New Zealand Limited**
 For Year Ended **31 March 2018**

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

7	Have assets been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination?										
8											Yes
9											
10	Line Item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)	
11					Electricity distribution services	Non-electricity distribution services	Arm's length deduction	Electricity distribution services	Non-electricity distribution services		Total
12	Subtransmission lines										
13											
14											
15											
16											
17	Not directly attributable						-	-	-	-	-
18	Subtransmission cables										
19											
20											
21											
22											
23	Not directly attributable						-	-	-	-	-
24	Zone substations										
25											
26											
27											
28											
29	Not directly attributable						-	-	-	-	-
30	Distribution and LV lines										
31											
32											
33											
34											
35	Not directly attributable						-	-	-	-	-

Company Name MainPower New Zealand Limited
For Year Ended 31 March 2018

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 7.04% is just above 6.17% that targeted by MainPower in the Lines Services Pricing Methodology disclosed 1st April 2017.

MainPower's Post tax ROI of 7.04% is above the mid-point WAC estimate 25th percentile 4.36% and the 75th percentile WACC of 5.72% as posted by the Commerce Commission.

This year's result has been significantly influenced by MainPower's variable tariff pricing methodology which saw an increase in consumption against budget of around 6%, this coupled with an increase in tariff to recover the increase in transmission charges over the last two years has resulted in Lines revenue of \$M58.793 up on last year(\$M53.426) by \$M5.367.

MainPowers targeted lines charge revenue to March 2018 as per MainPower's pricing disclosure published in March 2017 was \$M55.115. MainPower's actual revenue to March 2018 was \$M58.793 up \$M3.678 on estimate (6.7%) with targeted volumes of 571,155,067 kWh's and sold 604,048,000 kWh's and increase of 32,892,933 (5.75%). This increase in units sold against estimate is primarily driven by a warm and dry irrigation season, coupled with a cooler winter period which has seen an increase in Residential and Commercial consumption compared to the prior year.

Capital expenditure on network and non network assets this year was net \$M5.612, down on last year (\$M10.508) by \$M4.896. Opex on the network has also dropped, this year \$M3.196 from \$M5.096 last year - a reduction of \$M1.9. The reduction in network expenditure is a reflection on a change in network management in 2017, coupled with a drive towards realignment of business procedures.

The reduction in expenditure is a result of a change in strategic focus that saw MainPower commence a journey to embed a customer-centric approach within our business, creating a better understanding of who our customers are and identifying unmet needs. In response to this changing landscape, MainPower reviewed its approach and took a fresh look at its asset management practices, processes and systems. A key driver for this was a review of previous assessments of our level of asset maturity, using the Commerce Commission's Asset Management Maturity Assessment Tool. Taking this into consideration caused MainPower to pause, reflect and re-evaluate its asset management systems and processes. Emphasis continued to be placed on ensuring that the needs for customer service, safety and compliance remained. However, MainPower deferred more future focussed network development plans until our thinking on future needs through improved Asset Management and Network Development Planning were fully developed

During 2017-2018 MainPower also moved towards leasing non network assets which has seen the sale and lease back of motor vehicles.

MainPower continues to strive towards a customer centric organisation, with customers at the forefront of everything we do.

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: Capital gain on sale of Motor vehicles \$M.587, Interest \$M.093 relating to MainPower's self insurance fund, Cable rebates \$M.011, Rental of building \$M.0335.

Operational costs include Opex expenditure on the network as detailed in schedule 6b of \$M3.196, Land and Buildings \$M.789 (includes rates \$M.282), Operational expenditure \$M1.959, Directors expenses \$M.459, Staff expenses \$5.156, Office expenses \$M2.454, Financial expenses \$M.096 and Community \$M1.136.

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 \$M4.369. Non Network assets purchased amounted to \$M1.314; Buildings \$M.387, Plant & Equipment \$M.054, IT hardware & Software \$M.821, Motor vehicles \$M.052. Total assets commissioned \$M5.683.

Non network asset disposals totalled \$M1.684, of which motor vehicle disposals accounted for \$M1.585 of this.

No items have been reclassified nor has 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

Not Applicable.

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	2.00
Provision for expenditure deductible for regulatory but not tax	0.38
Total	2.38
Negative Temporary differences	\$M
Employee entitlements deductible for tax but not regulatory	1.70
Provision for other expenditure deductible for tax but not regulatory	0.25
Renewals expenditure expensed for tax and capitalised for regulatory	0.66
Adjustments in tax asset register but not RAB	-
Total	2.61

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 Systems Limited is 100% owned by MainPower New Zealand Limited. MainPower New Zealand Limited paid \$M.038 to Vircom Energy Management Systems Limited for inspection work related to Network 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 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 regarding the materiality threshold MainPower has identified projects as part of our AMP forecasts where the expenditure reclassification is greater than \$0.05M

Non Network Assets purchased amounted to \$M1.314, (Motor vehicles \$M.052, Buildings \$M.387, Plant & Equipment \$M.052, Computer hardware and software \$M.822, Office equipment \$M.002).

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 \$M3.196, Land and buildings \$M0.789, Operational expenditure \$M1.959, Staff expenses \$M5.156, Office expenses \$M2.454, Financial \$M0.096, Directors expenses \$M0.459, Community \$M1.136.

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 \$M8.960 down \$M4.081 on forecast (31%)

The reduction in expenditure is a result of a change in strategic focus that saw MainPower commence a journey to embed a customer-centric approach within our business, creating a better understanding of who our customers are and identifying unmet needs. In response to this changing landscape, MainPower reviewed its approach and took a fresh look at its asset management practices, processes and systems. A key driver for this was a review of previous assessments of our level of asset maturity, using the Commerce Commission’s Asset Management Maturity Assessment Tool. Taking this into consideration caused MainPower to pause, reflect and re-evaluate its asset management systems and processes. Emphasis continued to be placed on ensuring that the needs for customer service, safety and compliance remained. However, MainPower deferred more future focussed network development plans until our thinking on future needs through improved Asset Management and Network Development Planning were fully developed

Expenditure on Non Network assets was \$M1.314 down \$M2.268 on forecast (63%) principally due to the sale and lease back of Motor Vehicles \$M1.585.

Operational expenditure at \$M14.728 was up 14% on the forecast expenditure.

Network operational expenditure at \$M3.196 was down (41%) on forecast.

The reduction in expenditure is a result of a change in strategic focus that saw MainPower commence a journey to embed a customer-centric approach within our business, creating a better understanding of who our customers are and identifying unmet needs. In response to this changing landscape, MainPower reviewed its approach and took a fresh look at its asset management practices, processes and systems. A key driver for this was a review of previous assessments of our level of asset maturity, using the Commerce Commission’s Asset Management Maturity Assessment Tool. Taking this into consideration caused MainPower to pause, reflect and re-evaluate its asset management systems and processes. Emphasis continued to be placed on ensuring that the needs for customer service, safety and compliance remained. However, MainPower deferred more future focussed network development plans until our thinking on future needs through improved Asset Management and Network Development Planning were fully developed

Non Network opex at \$M11.532 was up 53% on forecast and is primarily a reflection on the establishment of MainPower’s new corporate structure for delivery of the companies customer centric focus. The principal costs associated with Non Network opex were Land and buildings \$M0.507, Operational expenditure \$M1.959, Staff expenses \$M5.156, Office expenses \$M2.22, Financial \$M0.096, Directors expenses \$M0.459, Community \$M1.136.

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
MainPowers targeted lines charge revenue to March 2018 as per MainPower’s pricing disclosure published in March 2017 was \$M55.115. MainPower’s actual revenue to March 2018 was \$M58.793 up \$M3.678 on estimate (6.7%) with targeted volumes of 571,155,067 kWh’s and sold 604,048,000 kWh’s and increase of 32,892,933 (5.75%). This increase in units sold against estimate is primarily driven by a warm and dry irrigation season, coupled with a cooler winter period which has seen an increase in Residential and Commercial consumption compared to the prior year.

Prices have increased to recover an aggregate 8.7 %. The price increase is made up of an increase of 5% to distribution charges and an increase to transmission charges of 9.3% which recovered Transpower price increases for 2017 and 2018. The transmission increase is a straight pass through of the increased charges from Transpower.

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

10 (i)

In the prior year the network was significantly affected by the earthquake in Kaikoura in November 2016. This has caused the current year to have improved reliability in the network; however there are ongoing requirements to fix the network as a result of the Earthquake.

The decreases in this section are related to an earthquake that occurred near Kaikoura in November 2016. The result of this earthquake was a significant loss of power across the network for a long duration. This created an increase in total Unplanned outages for the year and the increase in the average length of time customers were without power (SAIDI). The work undertaken after power was restored to customers to get the network back to the pre earthquake state is the reason for the higher number of Planned outages.

10 (ii)

Adverse environment events correspond to major natural disasters such as fires, floods or earthquakes. In this case the above mentioned earthquake is responsible for the previous year's Adverse Environment events but luckily in the most recent year we have had no major disasters.

10 (iii) and 10 (iv)

As stated above the earthquake near Kaikoura created a number of Unplanned power outages on the network with further repair work after the initial restoration of power being done through Planned outages. Every time the power goes off there is an impact with respect to SAIDI and SAIFI and due to the number of required outages to remedy the damage from the earthquake the impact on the statistics was significant as you are seeing. In these sections it is mostly seen in the distribution assets section as they make up the majority of the lines in the affected areas so the numbers appear higher relative to the other equipment involved.

10 (v)

The number of faults in the current year has significantly decreased as noted above due to the Kaikoura earthquake in the prior year.

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 Distribution system network other than for Zone substations, loan plant and contained structures. For the insurance period ending 1 October 2018 the amount of insurance cover for the above assets was \$M45.9.

MainPower maintains a catastrophic self insurance fund of \$M3 to provide for such events as earthquakes and major wind storms.

MainPower has included \$M0.093 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

Not Applicable.

Company Name _____
 For Year Ended _____

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 January 2018 when establishing the Inflation (CPI) movements for the years 2019 to 2028.

Inflation Westpac	1.50%	1.80%	1.60%	1.70%	1.90%	1.90%	1.90%	1.90%	1.90%
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

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 operational expenditure forecasts MainPower has used the Westpac Economics Forecast Summary sheet January 2018 when establishing the Inflation (CPI) movements for the years 2019 to 2028.

Inflation Westpac	1.50%	1.80%	1.60%	1.70%	1.90%	1.90%	1.90%	1.90%	1.90%
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

Company Name _____

For Year Ended _____

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.

<p>Box 1: Voluntary explanatory comment on disclosed information [Insert text below]</p>

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 STEPHEN PAUL LEWIS, 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 September 2018



STEPHEN PAUL LEWIS

28 September 2018



INDEPENDENT ASSURANCE REPORT

TO THE 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 conducted a reasonable assurance on MainPower New Zealand Limited's ('the Company') compliance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated in 2015) ('the Determination') in relation to the preparation of 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 of the Company's Information Disclosures ('the Disclosure Information') for the period 1 April 2017 to 31 March 2018

In our opinion, for the period 1 April 2017 to 31 March 2018:

- the Company has complied, in all material aspects, with the Determination in preparing the Disclosure Information;
- 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; and
- 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.

Basis of opinion

We have conducted our engagement in accordance with Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* ('SAE3100 (Revised)') issued by the New Zealand Auditing and Assurance Standards Board.

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

Board of Directors' Responsibilities

The Board of Directors is responsible on behalf of the Company 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 preparation of the Disclosure Information with the Determination.

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 independent auditor, we have no relationship with or interests in MainPower New Zealand Limited or any of 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 requirement

Our Responsibilities

Our responsibility is to express an opinion whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination. SAE3100 (Revised) requires that we plan and perform our procedures to obtain reasonable assurance that the Company has complied, in all material aspects, with the Determination in relation to the preparation of the Disclosure Information.

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An assurance engagement to report on the Company's compliance with the Determination in relation to the preparation of the Disclosure Information involves performing procedures to obtain evidence about the compliance activity and controls implemented to meet the requirements of the Determination. The procedures selected depend on our judgement, including the identification and assessment of risk of material non-compliance with the Determination.

Our procedures include:

- evaluating the methodologies used in preparing the Disclosure Information and confirming that they are in accordance with the requirements set out in the Determination;
- ensuring proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the Company;
- identifying key inputs to the Disclosure 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, with the Determination in relation to the preparation of the Disclosure Information for the period 1 April 2017 to 31 March 2018.

Inherent Limitations

Because of the inherent limitations of an assurance engagement, together with the inherent limitations of any systems of internal control, there is an unavoidable risk that fraud, error or non-compliance by the Company with the Determination in relation to the preparation of the Disclosure Information may occur and not be detected, even though the engagement is properly planned and performed in accordance with SAE 3100 (Revised).

Use of Report

This report is provided solely for your exclusive use and solely for the purpose of Section 2.8 of 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 express consent. We accept or assume no duty, responsibility or liability to any other party in connection with the report or this engagement, including without limitation, liability for negligence in relation to the opinion expressed in this report.

Deloitte Limited

Christchurch, New Zealand
30 August 2018