



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

Company Name	MainPower New Zealand
Disclosure Date	31 August 2019
Disclosure Year (year ended)	31 March 2019

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 21 December 2017

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 For Year Ended **31 March 2019**

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)
7						
8						
9	Operational expenditure	28,774	433	146,727	3,419	30,987
10	Network	7,624	115	38,874	906	8,210
11	Non-network	21,151	318	107,852	2,513	22,778
12						
13	Expenditure on assets	17,701	267	90,262	2,103	19,063
14	Network	13,928	210	71,022	1,655	14,999
15	Non-network	3,773	57	19,239	448	4,063
16						
17	1(ii): Revenue metrics					
18						
19	Total consumer line charge revenue	96,654	1,455			
20	Standard consumer line charge revenue	105,169	1,410			
21	Non-standard consumer line charge revenue	27,261	1,777,551			
22						
23	1(iii): Service intensity measures					
24						
25	Demand density	23				Maximum coincident system demand per km of circuit length (for supply) (kW/km)
26	Volume density	119				Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
27	Connection point density	8				Average number of ICPs per km of circuit length (for supply) (ICPs/km)
28	Energy intensity	15,057				Total energy delivered to ICPs per average number of ICPs (kWh/ICP)
29						
30	1(iv): Composition of regulatory income					
31						
32						
33						
34						
35						
36						
37						
38						
39						
40	1(v): Reliability					
41						
42	Interruption rate		14.40			Interruptions per 100 circuit km

Company Name	MainPower New Zealand
For Year Ended	31 March 2019

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).

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sch ref

2(i): Return on Investment		CY-2	CY-1	Current Year CY
		31 Mar 17	31 Mar 18	31 Mar 19
		%	%	%
7	ROI – comparable to a post tax WACC			
8				
9	Reflecting all revenue earned	6.27%	7.04%	6.30%
10	Excluding revenue earned from financial incentives	6.27%	7.04%	6.30%
11	Excluding revenue earned from financial incentives and wash-ups	6.27%	7.04%	6.30%
12				
13				
14	Mid-point estimate of post tax WACC	4.77%	5.04%	4.75%
15	25th percentile estimate	4.05%	4.36%	4.07%
16	75th percentile estimate	5.48%	5.72%	5.43%
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	6.81%	7.63%	6.81%
21	Excluding revenue earned from financial incentives	6.81%	7.63%	6.81%
22	Excluding revenue earned from financial incentives and wash-ups	6.81%	7.63%	6.81%
23				
24	WACC rate used to set regulatory price path	–	–	–
25				
26	Mid-point estimate of vanilla WACC	5.31%	5.60%	5.26%
27	25th percentile estimate	4.59%	4.92%	4.58%
28	75th percentile estimate	6.03%	6.29%	5.94%
29				
30	2(ii): Information Supporting the ROI			
31				
32	Total opening RAB value	248,091		
33	plus Opening deferred tax	(6,730)		
34	Opening RIV		241,361	
35				
36	Line charge revenue		57,664	
37				
38	Expenses cash outflow	32,436		
39	add Assets commissioned	6,656		
40	less Asset disposals	203		
41	add Tax payments	305		
42	less Other regulated income	193		
43	Mid-year net cash outflows		39,001	
44				
45	Term credit spread differential allowance		–	
46				
47	Total closing RAB value	243,511		
48	less Adjustment resulting from asset allocation	(2,134)		
49	less Lost and found assets adjustment	–		
50	plus Closing deferred tax	(6,772)		
51	Closing RIV		238,873	
52				
53	ROI – comparable to a vanilla WACC			6.81%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			4.33%
57	Corporate tax rate (%)			28%
58				
59	ROI – comparable to a post tax WACC			6.30%
60				

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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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2(iii): Information Supporting the Monthly ROI

61								
62								
63	Opening RIV							N/A
64								
65								
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows	
67	April							-
68	May							-
69	June							-
70	July							-
71	August							-
72	September							-
73	October							-
74	November							-
75	December							-
76	January							-
77	February							-
78	March							-
79	Total	-	-	-	-	-		-
80								
81	Tax payments							N/A
82								
83	Term credit spread differential allowance							N/A
84								
85	Closing RIV							N/A
86								
87								
88	Monthly ROI – comparable to a vanilla WACC							N/A
89								
90	Monthly ROI – comparable to a post tax WACC							N/A
91								

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

92			
93			
94	Year-end ROI – comparable to a vanilla WACC		6.61%
95			
96	Year-end ROI – comparable to a post tax WACC		6.10%
97			
98	* 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.		
99			

2(v): Financial Incentives and Wash-Ups

100			
101			
102	Net recoverable costs allowed under incremental rolling incentive scheme		-
103	Purchased assets – avoided transmission charge		
104	Energy efficiency and demand incentive allowance		
105	Quality incentive adjustment		
106	Other financial incentives		
107	Financial incentives		-
108			
109	Impact of financial incentives on ROI		-
110			
111	Input methodology claw-back		
112	CPP application recoverable costs		
113	Catastrophic event allowance		
114	Capex wash-up adjustment		
115	Transmission asset wash-up adjustment		
116	2013–15 NPV wash-up allowance		
117	Reconsideration event allowance		
118	Other wash-ups		
119	Wash-up costs		-
120			
121	Impact of wash-up costs on ROI		-

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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).

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sch ref

7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	57,664
10	plus Gains / (losses) on asset disposals	85
11	plus Other regulated income (other than gains / (losses) on asset disposals)	108
12		
13	Total regulatory income	57,857
14	Expenses	
15	less Operational expenditure	17,167
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	15,269
18		
19	Operating surplus / (deficit)	25,421
20		
21	less Total depreciation	12,577
22		
23	plus Total revaluations	3,678
24		
25	Regulatory profit / (loss) before tax	16,522
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	346
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	16,176
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	298
36	Commerce Act levies	62
37	Industry levies	197
38	CPP specified pass through costs	
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	13,576
41	Transpower new investment contract charges	1,136
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	15,269
47		

Company Name **MainPower New Zealand**
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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).

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sch ref

		(\$000)	
		CY-1	CY
		31 Mar 18	31 Mar 19
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 14		
58	CY-4 31 Mar 15		
59	CY-3 31 Mar 16		
60	CY-2 31 Mar 17		
61	CY-1 31 Mar 18		
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		

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

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

	for year ended				
	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)
Total opening RAB value	221,540	231,674	247,342	253,649	248,091
less Total depreciation	10,976	11,491	12,198	12,327	12,577
plus Total revaluations	185	1,359	5,350	2,770	3,678
plus Assets commissioned	22,346	25,946	13,540	5,683	6,656
less Asset disposals	1,421	146	385	1,684	203
plus Lost and found assets adjustment					-
plus Adjustment resulting from asset allocation					(2,134)
Total closing RAB value	231,674	247,342	253,649	248,091	243,511

4(ii): Unallocated Regulatory Asset Base

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value		248,091		248,091
less Total depreciation		12,577		12,577
plus Total revaluations		3,678		3,678
plus Assets commissioned (other than below)	6,656		6,656	
Assets acquired from a regulated supplier				
Assets acquired from a related party				
Assets commissioned		6,656		6,656
less Asset disposals (other than below)	203		203	
Asset disposals to a regulated supplier				
Asset disposals to a related party				
Asset disposals		203		203
plus Lost and found assets adjustment				
plus Adjustment resulting from asset allocation				(2,134)
Total closing RAB value		245,645		243,511

* 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.

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

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

CPI _t	1,026
CPI _{t-4}	1,011
Revaluation rate (%)	1.48%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	248,091		248,091	
<i>less</i> Opening value of fully depreciated, disposed and lost assets	194		194	
Total opening RAB value subject to revaluation	247,897		247,897	
Total revaluations		3,678		3,678

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction		Allocated works under construction	
Works under construction—preceding disclosure year		1,593		1,593
<i>plus</i> Capital expenditure	6,524		6,524	
<i>less</i> Assets commissioned	6,656		6,656	
<i>plus</i> Adjustment resulting from asset allocation				
Works under construction - current disclosure year		1,461		1,461

Highest rate of capitalised finance applied

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

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
77 Depreciation - standard	10,974		10,974	
78 Depreciation - no standard life assets	1,603		1,603	
79 Depreciation - modified life assets				
80 Depreciation - alternative depreciation in accordance with CPP				
81 Total depreciation		12,577		12,577

85 **4(vi): Disclosure of Changes to Depreciation Profiles**

(\$000 unless otherwise specified)

86 Asset or assets with changes to depreciation*	87 Reason for non-standard depreciation (text entry)	88 Depreciation charge for the period (RAB)	89 Closing RAB value under 'non-standard' depreciation	90 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
98 Total opening RAB value	18,288	733	26,899	59,580	52,418	39,720	11,459	12,570	26,424	248,091
100 less Total depreciation	826	30	1,300	3,422	1,849	1,827	969	751	1,603	12,577
101 plus Total revaluations	271	11	399	884	778	589	170	186	390	3,678
102 plus Assets commissioned	59	-	10	2,431	1,020	250	279	356	2,251	6,656
103 less Asset disposals	-	-	-	-	-	-	-	-	203	203
104 plus Lost and found assets adjustment										-
105 plus Adjustment resulting from asset allocation									(2,134)	(2,134)
106 plus Asset category transfers										-
107 Total closing RAB value	17,792	714	26,008	59,473	52,367	38,732	10,939	12,361	25,125	243,511
108 Asset Life										
109 Weighted average remaining asset life	22.1	24.1	20.7	17.4	28.3	21.7	11.8	16.7	16.5	(years)
111 Weighted average expected total asset life	50.8	47.6	34.2	47.4	47.8	45.6	36.2	34.8	24.9	(years)

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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

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

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

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		16,522
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	1,319	
14			2,367
15			
16	<i>less</i> Total revaluations	3,678	
17	Income included in regulatory profit / (loss) before tax but not taxable		*
18	Discretionary discounts and customer rebates	9,677	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax		*
20	Notional deductible interest	4,297	
21			17,652
22			
23	Regulatory taxable income		1,237
24			
25	<i>less</i> Utilised tax losses		
26	Regulatory net taxable income		1,237
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		346

* 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).

5a(iii): Amortisation of Initial Difference in Asset Values

(\$000)

36	Opening unamortised initial differences in asset values	12,600	
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		11,552
41			
42	Opening weighted average remaining useful life of relevant assets (years)		12

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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 130.

sch ref

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations	228,396	
47			
48	Adjusted depreciation	11,258	
49	Total depreciation	12,577	
50	Amortisation of revaluations		1,319
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	(6,730)	
61			
62	plus Tax effect of adjusted depreciation	3,152	
63			
64	less Tax effect of tax depreciation	3,361	
65			
66	plus Tax effect of other temporary differences*	(136)	
67			
68	less Tax effect of amortisation of initial differences in asset values	293	
69			
70	plus Deferred tax balance relating to assets acquired in the disclosure year	4	
71			
72	less Deferred tax balance relating to assets disposed in the disclosure year	4	
73			
74	plus Deferred tax cost allocation adjustment	597	
75			
76	Closing deferred tax		(6,772)
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		
82			(\$000)
83	Opening sum of regulatory tax asset values	235,764	
84	less Tax depreciation	12,005	
85	plus Regulatory tax asset value of assets commissioned	10,211	
86	less Regulatory tax asset value of asset disposals	219	
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		233,751

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SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination. This information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to the assurance report required by clause 2.8.

sch ref

	(\$000)	(\$000)
7 5b(i): Summary—Related Party Transactions		
8 Total regulatory income		
9		
10 Market value of asset disposals		
11		
12 Service interruptions and emergencies	-	
13 Vegetation management	-	
14 Routine and corrective maintenance and inspection	-	
15 Asset replacement and renewal (opex)	-	
16 Network opex		-
17 Business support	-	
18 System operations and network support	-	
19 Operational expenditure		-
20 Consumer connection	23	
21 System growth	-	
22 Asset replacement and renewal (capex)	-	
23 Asset relocations	-	
24 Quality of supply	-	
25 Legislative and regulatory	-	
26 Other reliability, safety and environment	-	
27 Expenditure on non-network assets		-
28 Expenditure on assets		23
29 Cost of financing		
30 Value of capital contributions		
31 Value of vested assets		
32 Capital Expenditure		23
33 Total expenditure		23
34		
35 Other related party transactions		

36 5b(iii): Total Opex and Capex Related Party Transactions

Name of related party	Nature of opex or capex service provided	Total value of transactions (\$000)
38 Vircom Energy Management Services Limited	38 Consumer connection	23
39		
40	Note: for the year ended 31 March 2019 Mainpower has determined that Mainpower's operations team is not a related party. Mainpower has determined this on the basis that the Operations team does not fall within the definition of a related party because (a) it does not meet the definition of a 'related party' in NZ IAS 24.9 and (b) it supplies both regulated services and non-regulated services primarily to the EDB, so is not deemed to be 'any part' of the business that supplies Non EDB services as per S4.82-4.83 of the related parties guidance.	
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53 Total value of related party transactions		23

* include additional rows if needed

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7
8
9

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

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
* include additional rows if needed						-	-	-

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22
23
24
25
26
27

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

Gross term credit spread differential								
Total book value of interest bearing debt								
Leverage			42%					
Average opening and closing RAB values								
Attribution Rate (%)								
Term credit spread differential allowance								

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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

7 **5d(i): Operating Cost Allocations**

		Value allocated (\$000s)			
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	OVBAA allocation increase (\$000s)
			Total		
8					
9					
10	Service interruptions and emergencies				
11	Directly attributable		1,360		
12	Not directly attributable				
13	Total attributable to regulated service		1,360		
14	Vegetation management				
15	Directly attributable		504		
16	Not directly attributable				
17	Total attributable to regulated service		504		
18	Routine and corrective maintenance and inspection				
19	Directly attributable		1,967		
20	Not directly attributable				
21	Total attributable to regulated service		1,967		
22	Asset replacement and renewal				
23	Directly attributable		717		
24	Not directly attributable				
25	Total attributable to regulated service		717		
26	System operations and network support				
27	Directly attributable		4,161		
28	Not directly attributable		1,769	7	1,776
29	Total attributable to regulated service		5,930		
30	Business support				
31	Directly attributable		108		
32	Not directly attributable		6,581	591	7,172
33	Total attributable to regulated service		6,689		
34					
35	Operating costs directly attributable		8,817		
36	Operating costs not directly attributable		8,350	598	8,948
37	Operational expenditure		17,167		
38					

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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**

Pass through and recoverable costs		(\$000)
Pass through costs		
42	Directly attributable	557
43	Not directly attributable	
44	Total attributable to regulated service	557
Recoverable costs		
46	Directly attributable	14,712
47	Not directly attributable	
48	Total attributable to regulated service	14,712

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

		(\$000)	
		CY-1	Current Year (CY)
52	Change in cost allocation 1		
53	Cost category	System operations and network support	
54	Original allocator or line items	Original allocation	25
55	New allocator or line items	New allocation	1,769
56		Difference	25
57	Rationale for change	Previously directly attributable as ACAM was used for most costs	

		(\$000)	
		CY-1	Current Year (CY)
61	Change in cost allocation 2		
62	Cost category	Business support	
63	Original allocator or line items	Original allocation	394
64	New allocator or line items	New allocation	6,581
65		Difference	394
66	Rationale for change	Previously directly attributable as ACAM was used for most costs	

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

* 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.

† include additional rows if needed

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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		
8		
9		
10	Subtransmission lines	
11	Directly attributable	17,792
12	Not directly attributable	
13	Total attributable to regulated service	17,792
14	Subtransmission cables	
15	Directly attributable	714
16	Not directly attributable	
17	Total attributable to regulated service	714
18	Zone substations	
19	Directly attributable	26,009
20	Not directly attributable	
21	Total attributable to regulated service	26,009
22	Distribution and LV lines	
23	Directly attributable	59,473
24	Not directly attributable	
25	Total attributable to regulated service	59,473
26	Distribution and LV cables	
27	Directly attributable	52,367
28	Not directly attributable	
29	Total attributable to regulated service	52,367
30	Distribution substations and transformers	
31	Directly attributable	38,732
32	Not directly attributable	
33	Total attributable to regulated service	38,732
34	Distribution switchgear	
35	Directly attributable	10,939
36	Not directly attributable	
37	Total attributable to regulated service	10,939
38	Other network assets	
39	Directly attributable	12,360
40	Not directly attributable	
41	Total attributable to regulated service	12,360
42	Non-network assets	
43	Directly attributable	
44	Not directly attributable	25,125
45	Total attributable to regulated service	25,125
46		
47	Regulated service asset value directly attributable	218,386
48	Regulated service asset value not directly attributable	25,125
49	Total closing RAB value	243,511
50		

5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
52	Change in asset value allocation 1		
53	Asset category	Non-network assets	
54	Original allocator or line items		Original allocation
55	New allocator or line items		New allocation
56			Difference
57			
58	Rationale for change	Previously directly attributable as ACAM was used	
59			
60			
61			
62	Change in asset value allocation 2		
63	Asset category		
64	Original allocator or line items		Original allocation
65	New allocator or line items		New allocation
66			Difference
67	Rationale for change		
68			
69			
70			
71	Change in asset value allocation 3		
72	Asset category		
73	Original allocator or line items		Original allocation
74	New allocator or line items		New allocation
75			Difference
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**
 For Year Ended **31 March 2019**

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			4,352
9	System growth			587
10	Asset replacement and renewal			3,140
11	Asset relocations			15
12	Reliability, safety and environment:			
13	Quality of supply		–	
14	Legislative and regulatory		–	
15	Other reliability, safety and environment		215	
16	Total reliability, safety and environment			215
17	Expenditure on network assets			8,310
18	Expenditure on non-network assets			2,251
19				
20	Expenditure on assets			10,561
21	plus Cost of financing			
22	less Value of capital contributions			4,037
23	plus Value of vested assets			
24				
25	Capital expenditure			6,524
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			
29	Research and development			
30	6a(iii): Consumer Connection			
31	<i>Consumer types defined by EDB*</i>		(\$000)	(\$000)
32	Residential		2,849	
33	Large User		36	
34	Irrigation		678	
35	Other		790	
36				
37	<i>* include additional rows if needed</i>			
38	Consumer connection expenditure			4,352
39	less Capital contributions funding consumer connection expenditure		4,037	
40	Consumer connection less capital contributions			315
41				
42	6a(iv): System Growth and Asset Replacement and Renewal			
43			System Growth	Asset Replacement and Renewal
44			(\$000)	(\$000)
45	Subtransmission		18	–
46	Zone substations		–	–
47	Distribution and LV lines		0	2,456
48	Distribution and LV cables		568	678
49	Distribution substations and transformers		–	–
50	Distribution switchgear		–	5
51	Other network assets		–	0
52	System growth and asset replacement and renewal expenditure		587	3,140
53	less Capital contributions funding system growth and asset replacement and renewal			
54	System growth and asset replacement and renewal less capital contributions		587	3,140
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		15	
65	Asset relocations expenditure			15
66	less Capital contributions funding asset relocations			
67	Asset relocations less capital contributions			15

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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			
78	Quality of supply expenditure			-
79	less Capital contributions funding quality of supply			
80	Quality of supply less capital contributions			-
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	215		
102	Other reliability, safety and environment expenditure			215
103	less Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions			215
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	Project or programme*	(\$000)	(\$000)	
109	Motor Vehicles	14		
110	Plant & Equipment	126		
111	Computer Hardware	2082		
112	Office	29		
113				
114	* include additional rows if needed			
115	All other projects or programmes - routine expenditure			
116	Routine expenditure			2,251
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			2,251

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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	1,360	
9	Vegetation management	504	
10	Routine and corrective maintenance and inspection	1,967	
11	Asset replacement and renewal	717	
12	Network opex		4,548
13	System operations and network support	5,930	
14	Business support	6,689	
15	Non-network opex		12,619
16			
17	Operational expenditure		17,167
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		677
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name	MainPower New Zealand
For Year Ended	31 March 2019

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

7	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
8	Line charge revenue	57,485	57,664	0%
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	5,060	4,352	(14%)
11	System growth	1,181	587	(50%)
12	Asset replacement and renewal	5,142	3,140	(39%)
13	Asset relocations	–	15	–
14	Reliability, safety and environment:			
15	Quality of supply	750	–	(100%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	–	215	–
18	Total reliability, safety and environment	750	215	(71%)
19	Expenditure on network assets	12,133	8,310	(32%)
20	Expenditure on non-network assets	3,712	2,251	(39%)
21	Expenditure on assets	15,845	10,561	(33%)
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	1,566	1,360	(13%)
24	Vegetation management	1,010	504	(50%)
25	Routine and corrective maintenance and inspection	2,588	1,967	(24%)
26	Asset replacement and renewal	261	717	175%
27	Network opex	5,425	4,548	(16%)
28	System operations and network support	4,199	5,930	41%
29	Business support	6,795	6,689	(2%)
30	Non-network opex	10,994	12,619	15%
31	Operational expenditure	16,419	17,167	5%
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	859	–	(100%)
35	Research and development	–	–	–
36				
37	7(v): Subcomponents of Operational Expenditure (where known)			
38	Energy efficiency and demand side management, reduction of energy losses	–	–	–
39	Direct billing	–	–	–
40	Research and development	–	–	–
41	Insurance	354	677	91%

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
For Year Ended	31 March 2019
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Billed quantities by price component

Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)

Price component	Distribution Fixed Charge	Distribution Variable Charge	Transmission Variable Charge	Large User Distribution Variable Charge	Large User Transmission Variable Charge	Non Standard Fixed Charge	Non Standard
Days	kWh	kWh	kWh	kWh	kWh	kWh	kWh

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

Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
Kaipoi Electricity Region All Inclusive Low User KEALU	Residential	Standard	667	4,014
Kaipoi Electricity Region All Inclusive Standard User KEAISTD	Residential	Standard	775	6,630
Kaipoi Electricity Region Council Pumping KECOUNPUMP	Community	Standard	19	549
Kaipoi Electricity Region Non-Residential - Large Users KELGEUSER	Commercial	Standard	7	9,718
Kaipoi Electricity Region All Inclusive Low User KENILU	Residential	Standard	66	433
Kaipoi Electricity Region All Inclusive with Night Only Standard User KENISTD	Residential	Standard	106	970
Kaipoi Electricity Region Non-Residential KENONRES	Commercial	Standard	219	5,973
Kaipoi Electricity Region Streetlighting Per Fitting Connected KESTLGT	Commercial	Standard	2	273
Kaipoi Electricity Region Temporary Supply KETEMP	Commercial	Standard	3	14
Kaipoi Electricity Region Uncontrolled Low User KEUCLU	Residential	Standard	6	43
Kaipoi Electricity Region Uncontrolled Standard User KEUCSTD	Residential	Standard	10	80
MainPower Region All Inclusive Low User MPAILU	Residential	Standard	8,747	56,537
MainPower Region All Inclusive Standard User MPAISTD	Residential	Standard	17,583	160,569
MainPower Region Council Pumping MPCOUNPUMP	Community	Standard	179	11,554
Irrigation Per kW Connected MPIRR	Commercial	Standard	1,347	61,985
MainPower Region Non-Residential - Large Users MPLGEUSER	Commercial	Standard	31	40,970
MainPower Region Non-Residential - Large Users with No Fixed Charges MPLGEUSERNF	Commercial	Standard	8	11,328
MainPower Region All Inclusive with Night Only Low User MPNILU	Residential	Standard	748	5,198
MainPower Region All Inclusive with Night Only Standard User MPNISTD	Residential	Standard	1,637	16,219
MainPower Region Non-Residential MPNDRRES	Commercial	Standard	5,219	116,724
MainPower Region Streetlighting Per Fitting Connected MPSTLGT	Commercial	Standard	114	2,807
MainPower Region Temporary Supply MPTEMP	Commercial	Standard	270	230
MainPower Region All Inclusive with Night Only Low User MPNUCLU	Residential	Standard	450	3,074
MainPower Region All Inclusive with Night Only Standard User MPNUCSTD	Residential	Standard	1,440	13,164
To Be Accrued Consumption as at 30/06/2019	Commercial	Standard		2,347
MainPower ICP's Direct Supply	Commercial	Non-standard	1	65,205

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

Standard consumer totals	39,623	531,402
Non-standard consumer totals	1	65,205
Total for all consumers	39,624	596,607

284,160	4,013,680	4,013,680					
295,326	6,629,975	6,629,975					
6,818	549,315	549,315					
2,471			9,718,060	9,718,060			
55,273	433,081	433,081					
75,738	970,410	970,410					
85,568	5,972,724	5,972,724					
574	272,680	272,680					
1,114	13,592	13,592					
2,515	43,439	43,439					
3,741	79,959	79,959					
4,067,221	56,537,077	56,537,077					
7,171,921	160,568,630	160,568,630					
83,992	11,554,077	11,554,077					
576,828	61,984,676	61,984,676					
11,706			40,970,151	40,970,151			
2,848			11,327,763	11,327,763			
641,596	5,198,360	5,198,360					
1,216,803	16,218,859	16,218,859					
2,289,739	116,724,245	116,724,245					
40,560	2,807,209	2,807,209					
40,334	235,694	235,694					
216,227	3,073,570	3,073,570					
600,437	13,164,158	13,164,158					
	2,346,586	2,346,586					
							65,205,408

17,775,510	469,385,996	469,385,996	62,015,974	62,015,974			-
-	-	-	-	-			65,205,408
17,775,510	469,385,996	469,385,996	62,015,974	62,015,974			65,205,408

Company Name	MainPower New Zealand
For Year Ended	31 March 2019
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.	8,418	8,243	(175)	3
9	All	Overhead Line	Wood poles	No.	48,181	48,854	673	3
10	All	Overhead Line	Other pole types	No.	2	-	(2)	3
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	373	373	0	3
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	4	4	0	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	16	16	-	4
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
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.	18	19	1	4
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	46	47	1	3
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	14	13	(1)	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	3,311	3,301	(10)	2
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	119	119	(0)	2
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	264	268	4	3
38	HV	Distribution Cable	Distribution UG PILC	km	56	55	(0)	3
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	80	77	(3)	3
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	9	46	37	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,656	9,613	(43)	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	377	-	(377)	N/A
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	7,448	7,436	(12)	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	811	808	(3)	4
47	HV	Distribution Transformer	Voltage regulators	No.	12	12	-	3
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	793	799	6	2
49	LV	LV Line	LV OH Conductor	km	237	237	(0)	1
50	LV	LV Cable	LV UG Cable	km	659	661	2	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	435	436	0	3
52	LV	Connections	OH/UG consumer service connections	No.	44,068	44,717	649	1
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	320	320	-	3
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	224	-	(224)	N/A
55	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	N/A
56	All	Load Control	Centralised plant	Lot	8	8	-	4
57	All	Load Control	Relays	No.	25,083	25,017	(66)	3
58	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name	MainPower New Zealand
For Year Ended	31 March 2019
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)
11	> 66kV		
12	50kV & 66kV	251	0
13	33kV	122	4
14	SWER (all SWER voltages)	117	2
15	22kV (other than SWER)	962	60
16	6.6kV to 11kV (inclusive—other than SWER)	2,342	264
17	Low voltage (< 1kV)	237	661
18	Total circuit length (for supply)	4,031	991
19			
20	Dedicated street lighting circuit length (km)	17	418
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		
22			
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	(% of total overhead length)
24	Urban	51	1%
25	Rural	2,411	60%
26	Remote only	1,440	36%
27	Rugged only	128	3%
28	Remote and rugged	—	—
29	Unallocated overhead lines	—	—
30	Total overhead length	4,031	100%
31			
32		Circuit length (km)	(% of total circuit length)
33	Length of circuit within 10km of coastline or geothermal areas (where known)	2,106	42%
34		Circuit length (km)	(% of total overhead length)
35	Overhead circuit requiring vegetation management	2,106	52%

Company Name **MainPower New Zealand**
 For Year Ended **31 March 2019**

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

<i>sch ref</i>	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
For Year Ended	31 March 2019
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			
11	<i>Consumer types defined by EDB*</i>	Number of connections (ICPs)	
12	Residential	667	
13	Irrigation	20	
14	Other	291	
15			
16	<i>* include additional rows if needed</i>		
17	Connections total	978	
18			
19	Distributed generation		
20	Number of connections made in year	181	connections
21	Capacity of distributed generation installed in year	1.09	MVA
22	9e(ii): System Demand		
23			
24			
25	Maximum coincident system demand		Demand at time of maximum coincident demand (MW)
26	GXP demand	115	
27	plus Distributed generation output at HV and above	2	
28	Maximum coincident system demand	117	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	Demand on system for supply to consumers' connection points	117	
31	Electricity volumes carried		Energy (GWh)
32	Electricity supplied from GXPs	620	
33	less Electricity exports to GXPs	-	
34	plus Electricity supplied from distributed generation	13	
35	less Net electricity supplied to (from) other EDBs	-	
36	Electricity entering system for supply to consumers' connection points	633	
37	less Total energy delivered to ICPs	597	
38	Electricity losses (loss ratio)	36	5.7%
39			
40	Load factor	0.62	
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
For Year Ended	31 March 2019
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)	437
12 Class C (unplanned interruptions on the network)	286
13 Class D (unplanned interruptions by Transpower)	
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	723

20 **Interruption restoration**

	≤3Hrs	>3hrs
22 Class C interruptions restored within	205	81

24 **SAIFI and SAIDI by class**

	SAIFI	SAIDI
25 Class A (planned interruptions by Transpower)		
26 Class B (planned interruptions on the network)	0.57	121.1
27 Class C (unplanned interruptions on the network)	1.05	111.8
28 Class D (unplanned interruptions by Transpower)		
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	1.62	232.9

36 **Normalised SAIFI and SAIDI**

	Normalised SAIFI	Normalised SAIDI
37 Classes B & C (interruptions on the network)	1.58	205.4

Company Name **MainPower New Zealand**

For Year Ended **31 March 2019**

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	0.01	1.8
Vegetation	0.14	19.8
Adverse weather	0.16	35.5
Adverse environment	–	–
Third party interference	0.24	17.6
Wildlife	0.15	9.3
Human error	0.03	0.7
Defective equipment	0.14	11.4
Cause unknown	0.19	13.9

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.00	0.2
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.26	79.5
Distribution cables (excluding LV)	0.23	32.1
Distribution other (excluding LV)	0.09	9.4

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.20	10.6
Subtransmission cables	–	–
Subtransmission other	0.00	0.0
Distribution lines (excluding LV)	0.73	86.6
Distribution cables (excluding LV)	0.08	13.5
Distribution other (excluding LV)	0.04	1.1

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	4	385	1.04
Subtransmission cables	–	3	–
Subtransmission other	1	–	–
Distribution lines (excluding LV)	261	3,413	7.65
Distribution cables (excluding LV)	8	316	2.53
Distribution other (excluding LV)	12	–	–
Total	286		

Company Name	<u>MainPower</u>
For Year Ended	<u>31 March 2019</u>

Schedule 14 Mandatory Explanatory Notes

(Guidance Note: This Microsoft Word version of Schedules 14, 14a and 15 is from the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018. Clause references in this template are to that determination)

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 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

Return on Investment (Schedule 2)

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

Box 1: Explanatory comment on return on investment

MainPower's Post tax ROI of 6.30% is higher than the 6.17% estimated in the Lines Services Pricing Methodology disclosed 1st April 2018 and lower than last year's ROI of 7.04%.

MainPower's Post tax ROI of 6.30% is higher than the mid-point WAC estimate 25th percentile 4.07% and the 75th percentile WACC of 5.43% as posted by the Commerce Commission.

Lines revenue and volumes are both close to the targets set out in MainPower's Pricing Methodology. The lines revenue target was \$57.5M for 2019, the actual lines revenue is \$0.2M (0.4%) higher at \$57.7M (2018: \$58.8M). The targeted volume was 593,760,312 kWh's against units sold of 596,607,378 kWh's an increase of 2,847,066kWh's (0.5%). The variable pricing methodology is unchanged from the prior year.

Overall Operating expenditure is \$17.2M, 5% higher than the target of \$16.4M in the AMP and also higher than the prior year's \$14.7M. Network Opex is \$4.5M compared with a target of \$5.4M in the AMP. Non-network Opex is \$12.6M, whereas the AMP anticipated expenditure of \$11.0M.

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 (other than gains / (losses) on asset disposals) is comprised of interest revenue on MainPower's self-insurance fund.

Operational expenditure is made up of \$4.5M Network and \$12.6M Non-network Opex. Non-network Opex includes IT costs of \$1.8M, CEO's Office and Directors costs of \$1.6M, Communications costs of \$1.3M, Facilities Management costs of \$1.3M.

No items have been reclassified nor have there been any changes in the accounting treatment of revenue and 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)

The value of the unallocated RAB has decreased by \$2.5M to \$245.6M.

\$2.1M of assets have been allocated to non-EDB activities for the first time this year, ACAM was used previously. The value of the allocated RAB is \$243.5M.

Network additions to RAB are \$4.4M, net of capital contributions. The indexation increase applied is \$3.3M and depreciation (post indexation) is \$11.0M. The value of network assets in the unallocated RAB has therefore decreased by \$3.3M.

The total adjustment for non network assets in the unallocated RAB is an increase of \$0.8M. There were no material reclassifications.

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	1.75
Provision for expenditure deductible for regulatory but not tax	0.26
Total	<u>2.00</u>
Negative Temporary differences	\$M
Employee entitlements deductible for tax but not regulatory	1.73
Provision for expenditure deductible for tax but not regulatory	0.30
Renewals expenditure expensed for tax and capitalised for regulatory	0.46
Total	<u>2.49</u>

Cost allocation (Schedule 5d)

10. 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 7: Cost allocation

Operating costs were allocated using the Accounting Based allocation Approach (ABAA) where each line in the trial balance has been allocated to the appropriate regulatory cost, whereas in prior years the ACAM method was used.

Costs of \$598K have been allocated to Non-electricity distribution services in 2019.

There have not been any changes in the accounting treatment of expenditure from that adopted last year.

Asset allocation (Schedule 5e)

11. 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 8: Commentary on asset allocation

Assets were allocated using the Accounting Based allocation Approach (ABAA).

In prior years ACAM was used and assets were all classified as directly attributable.

Assets of \$2.1M have been allocated to Non-electricity distribution services in 2019.

There have not been any changes in the accounting treatment of assets from that adopted last year.

Capital Expenditure for the Disclosure Year (Schedule 6a)

12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
- 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
 - 12.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 9: Explanation of capital expenditure for the disclosure year

With regard to 12.1 above regarding the materiality threshold MainPower has identified projects as part of our AMP forecasts where the expenditure is greater than \$0.05M, the same limit has been applied to Information Disclosures. There were no material expenditure reclassifications.

Projects expenditure for the year includes funds for distribution projects relating to compliance (Voltage). Sub transmission projects were also planned in the reporting year for security of supply, voltage stability and conductor upgrades.

Main objective for the year was to maintain safety and security of supply through replacement and renews within 39% of target and 33% overall for expenditure on assets.

Operational Expenditure for the Disclosure Year (Schedule 6b)

13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
- 13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
 - 13.2 Information on reclassified items in accordance with subclause 2.7.1(2);
 - 13.3 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 10: Explanation of operational expenditure for the disclosure year

Funds were spent carrying our scheduled and unscheduled maintenance to achieve safety and security of supply. Service interruptions and emergencies were within 13% of target and routine inspections were 24% of target.

There were no material reclassifications, nor any material atypical expenditure.

Variance between forecast and actual expenditure (Schedule 7)

14. 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 11: Explanatory comment on variance in actual to forecast expenditure

Operating

The variance in actual to forecast operating expenditure is reflective of MainPower reviewing its approach to asset management and implementing a system that is lowest cost to maintain while not compromising our corporate objectives. It is expected that operational costs will return to budgetary levels as our asset maturity increases. Overall MainPower overspent (13%) operating expenditure mainly due Asset Renewal and Network Support. This is likely to be address in 2019/20 with better internal process and Asset Management planning.

Capital

The variance in capital expenditure reflects MainPower journey where MainPower has reviewed its approach to Asset Management ensuring we have asset condition and criticality data that informs renewals and where enhancement projects are aligned with MainPower Security of Supply Standards. As MainPower asset maturity increases it is expected that actual and budgeted will align in the future.

There were no material reclassifications.

Information relating to revenues and quantities for the disclosure year

15. In the box below provide-

- 15.1 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
- 15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 12: Explanatory comment relating to revenue for the disclosure year

Lines revenue and volumes are both close to the targets set out in MainPower's Pricing Methodology. The lines revenue target was \$57.5M for 2019, the actual lines revenue is \$0.2M (0.4%) higher at \$57.7M (2018: \$58.8M). The targeted volume was 593,760,312 kWh's against units sold of 596,607,378 kWh's an increase of 2,847,066kWh's (0.5%). There are no material differences between target revenue and total billed line revenue.

Network Reliability for the Disclosure Year (Schedule 10)

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

Box 13: Commentary on network reliability for the disclosure year

10(i)

The number of planned interruptions increased in the 2018/2019 reporting period due to an escalation of the asset replacement program that focused on activities designed to improve network resilience. This trend is expected to continue increasing into following reporting periods as MainPower's long term asset management strategy is fully implemented. Unplanned interruptions also increased during the reporting period, primarily as a result of weather-related events and third-party interferences.

10(ii)

The implementation of an accelerated asset management program designed to improve network resilience has resulted in an increase in Class B SAIDI and SAIFI above plan. The program is primarily addressing overhead network infrastructure that necessarily impacts on customer related outages. Class C outages are weighted towards weather related events and consequential vegetation impacts on the overhead lines, as well as a number of third-party interferences that have caused wide spread and long duration outages.

10(iii)

The equipment involved in planned Class B interruptions related predominantly to overhead lines and cables. This was as a result of the accelerated asset management program that required access to network equipment to improve network resilience. Planned Class B interruptions are expected to increase in future years to complete the extent of work defined in the long-term asset management program for the network.

10(iv) and 10(v)

The main equipment involved in Class C interruptions were overhead distribution lines and underground distribution cables. This correlates with weather, vegetation and third-party related events that were the major contributors to causes of SAIDI and SAIFI over the disclosure period.

Insurance cover

17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-
- 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
- 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 14: 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 2019 the amount of insurance cover for the above assets was \$50.8M (2018: \$45.9M).

MainPower maintains a catastrophic self insurance fund of \$3M to provide for such events as earthquakes and major wind storms.

MainPower has included \$0.1M 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

18. 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:
- 18.1 a description of each error; and
- 18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 15: Disclosure of amendment to previously disclosed information

Not applicable.

Company Name	<u>MainPower</u>
For Year Ended	<u>31 March 2019</u>

Schedule 14a Mandatory Explanatory Notes on Forecast Information

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)

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

The Westpac Economics Forecast Summary Spreadsheet was used to establish the average in the first years, this was then carried through future years.

	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

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

The Westpac Economics Forecast Summary Spreadsheet was used to establish the average in the first years, this was then carried through future years.

	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
2020	2021	2022	2023	2024	2025	2026	2027	2028	2029

Company Name MainPower

For Year Ended 31 March 2019

Schedule 15 Voluntary Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)

1. This schedule enables EDBs to provide, should they wish to-
 - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
 - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
3. Provide additional explanatory comment in the box below.

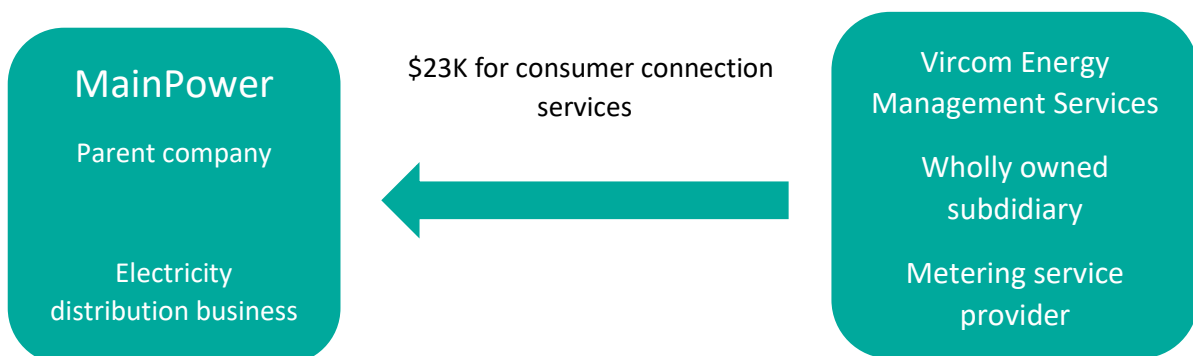
Box 1: Voluntary explanatory comment on disclosed information

Not applicable.

RELATED PARTIES FLOWCHART

2.3.8 Within 5 months after the end of each disclosure year, if an EDB has had related party transactions involving a procurement from a related party during that disclosure year, the EDB must publicly disclose a diagram or a description that shows the connection between the EDB and the related parties with which it has had related party transactions in the disclosure year, including for each of those related parties-

- (1) the relationship between the EDB and the related party;
- (2) the principal activities of the related party; and
- (3) the total annual expenditure incurred by the EDB with the related party.





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SCHEDULE 18

CERTIFICATION FOR YEAR-END DISCLOSURES

Clause 2.9.2 of section 2.9
Electricity Distribution Information Disclosure Determination 2012

We, JANICE EVELYN FREDRIC and BRIAN JOHN WOOD, 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
- c) In respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that-
 - i. the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
 - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.

JANICE EVELYN FREDRIC 10:41 a.m.

BRIAN JOHN WOOD 20/08/2019 3:17 p.m.



**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 2018)**

We have conducted a reasonable assurance engagement on whether the information disclosed by Mainpower New Zealand Limited (the 'Company') required to be disclosed in accordance with the Electricity Distribution Information Disclosure Determination 2012 (consolidated April 2018) ('the Determination') for the disclosure year ended 31 March 2019, has been prepared, in all material respects, in accordance with the Determination.

The information required to be reported by the Company, under the Determination is in schedules 1 to 4, 5a to 5g, 6a and 6b, 7 and the explanatory notes in boxes 1 to 11 in Schedule 14 ('the Disclosure Information').

Further, we have conducted a reasonable assurance engagement on whether the Company's related party information disclosed in Schedule 5b for the disclosure year ended 31 March 2019 ('the Related Party Transaction Information'), has been prepared, in all material respects, in accordance with clause 2.3.6 of the Determination, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated January 2019) ('the Input Methodologies Determination').

Opinion

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

In our opinion, for the period 1 April 2018 to 31 March 2019:

- the Company has complied, in all material aspects, with the Determination in relation to the Company's preparation of 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;
- as far as appears from an examination of the records, the information used in the preparation of the Disclosure Information has been properly extracted from the Company's accounting and other records and has been sourced, where appropriate, from the Company's financial and non-financial systems; and
- the Related Party Transaction Information complies, in all material respects, with the Determination and the Input Methodologies Determination.

Basis of opinion

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* and the Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* issued by the New Zealand Auditing and Assurance Standards Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, with the Information Disclosure Determination, and about whether the Related Party Transaction Information has been prepared, in all material respects, with the Determination and the Input Methodologies Determination. Reasonable assurance is a high level of assurance.

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

Key Audit Matters

Key audit matters are those matters that, in our professional judgement, required significant attention when carrying out the assurance engagement during the current disclosure year. These matters were addressed in the context of our audit, and in forming our opinion. We do not provide a separate opinion on these matters.

Key audit matter	How our procedures addressed the key audit matter
<p><i>Determining related parties</i></p> <p>The Information Disclosure Determination and the Input Methodologies Determination place a requirement on the Company to consider whether transactions should be related-party transactions.</p> <p>Schedule 5b lists all related parties and related party transactions applicable for the disclosure year, and outlines the Company’s judgement about the network services delivery team not being deemed a related party.</p> <p>Assessment of related parties and related party transactions is a key audit matter because it is determined by applying complex rules as set out in the Information Disclosure Determination and the Input Methodologies Determination, and involves considerable judgement by the Company.</p>	<p>We have obtained an understanding of the Company’s approach to determining its related parties and assessing related-party transactions in accordance with the Information Disclosure Determination and the Input Methodologies Determination.</p> <p>The procedures we have carried out to satisfy ourselves that related-party transactions are appropriately identified and considered as related-party included:</p> <ul style="list-style-type: none"> challenging whether the operations division should be considered as part of the business and therefore whether the transactions between the operations division and network division are related party transactions.

Board of Directors’ Responsibilities

The Board of Directors is responsible on behalf of the Company for the preparation of the Disclosure Information and Related Party Transaction Information in accordance with the Determination. The responsibility includes the design, implementation and maintenance of internal control relevant to the Company’s preparation of the Disclosure Information and the Related Party Transaction 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 requirements.



Auditor's Responsibility

Our responsibility is to express an opinion whether the Disclosure Information and the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Determination and the Input Methodologies Determination. SAE 3100 (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 and the Related Party Transaction Information.

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

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information and the basis of valuation in the Related Party Transaction Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information and Related Party Transaction Information, whether due to fraud or error or non-compliance with the Information Disclosure Determination or the Input Methodologies Determination. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Disclosure Information and Related Party Transaction Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.

Our Qualifications

We are qualified as an auditor as defined in the Determination.

Inherent Limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Disclosure Information or the Related Party Transaction Information nor do we guarantee complete accuracy of the Disclosure Information or the Related Party Transaction Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information or the Related Party Transaction Information.

The opinion expressed in this independent assurance report has been formed on the above basis.

Use of Report

This independent assurance report has been prepared solely for the directors of the Company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination, and about whether the Related Party Transaction Information has been prepared in all material respects with the Determination and the Input Methodologies Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the Company or the Commerce Commission, or for any other purpose than that for which it was prepared.

Deloitte Limited

Christchurch, New Zealand
23 August 2019