



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

Company Name	Nelson Electricity Limited
Disclosure Date	13 August 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 **Nelson Electricity 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

### 7 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)	
8						
9	Operational expenditure	13,652	208	57,628	6,455	19,354
10	Network	3,206	49	13,535	1,516	4,545
11	Non-network	10,446	159	44,093	4,939	14,808
12						
13	Expenditure on assets	6,720	102	28,365	3,177	9,526
14	Network	6,690	102	28,241	3,163	9,484
15	Non-network	29	0	124	14	42

### 17 1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)	
18			
19	Total consumer line charge revenue	72,239	1,101
20	Standard consumer line charge revenue	71,756	1,009
21	Non-standard consumer line charge revenue	78,013	422,289

### 23 1(iii): Service intensity measures

25	Demand density	112	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
26	Volume density	473	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
27	Connection point density	31	Average number of ICPs per km of circuit length (for supply) (ICPs/km)
28	Energy intensity	15,239	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

### 30 1(iv): Composition of regulatory income

	(\$000)	% of revenue	
32	Operational expenditure	1,916	19.05%
33	Pass-through and recoverable costs excluding financial incentives and wash-ups	3,457	34.38%
34	Total depreciation	1,426	14.18%
35	Total revaluations	454	4.51%
36	Regulatory tax allowance	912	9.07%
37	Regulatory profit/(loss) including financial incentives and wash-ups	2,798	27.82%
38	Total regulatory income	10,055	

### 40 1(v): Reliability

42	Interruption rate	4.38	Interruptions per 100 circuit km
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Company Name	Nelson Electricity 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	<b>2(i): Return on Investment</b>			
8				
9	<b>ROI – comparable to a post tax WACC</b>			
10	Reflecting all revenue earned	6.31%	8.13%	6.51%
11	Excluding revenue earned from financial incentives	6.31%	8.13%	6.51%
12	Excluding revenue earned from financial incentives and wash-ups	6.31%	8.13%	6.51%
13				
14	<b>Mid-point estimate of post tax WACC</b>	5.37%	4.77%	5.04%
15	25th percentile estimate	4.66%	4.05%	4.36%
16	75th percentile estimate	6.09%	5.48%	5.72%
17				
18				
19	<b>ROI – comparable to a vanilla WACC</b>			
20	Reflecting all revenue earned	6.96%	8.67%	7.10%
21	Excluding revenue earned from financial incentives	6.96%	8.67%	7.10%
22	Excluding revenue earned from financial incentives and wash-ups	6.96%	8.67%	7.10%
23				
24	<b>WACC rate used to set regulatory price path</b>	7.19%	7.19%	7.19%
25				
26	<b>Mid-point estimate of vanilla WACC</b>	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	<b>2(ii): Information Supporting the ROI</b>			
31				
32	Total opening RAB value	41,246		
33	plus Opening deferred tax	(1,272)		
34	<b>Opening RIV</b>		39,974	
35				
36	<b>Line charge revenue</b>		10,138	
37				
38	Expenses cash outflow	5,373		
39	add Assets commissioned	934		
40	less Asset disposals	97		
41	add Tax payments	743		
42	less Other regulated income	(83)		
43	<b>Mid-year net cash outflows</b>		7,036	
44				
45	<b>Term credit spread differential allowance</b>		–	
46				
47	Total closing RAB value	41,111		
48	less Adjustment resulting from asset allocation	0		
49	less Lost and found assets adjustment	–		
50	plus Closing deferred tax	(1,441)		
51	<b>Closing RIV</b>		39,670	
52				
53	<b>ROI – comparable to a vanilla WACC</b>			7.10%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.80%
57	Corporate tax rate (%)			28%
58				
59	<b>ROI – comparable to a post tax WACC</b>			6.51%
60				





Company Name **Nelson Electricity 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(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	6.92%
95		
96	Year-end ROI – comparable to a post tax WACC	6.33%
97		

\* 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**

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	Recoverable customised price-quality path costs	
113	Catastrophic event allowance	
114	Capex wash-up adjustment	
115	Transmission asset wash-up adjustment	
116	2013–2015 NPV wash-up allowance	
117	Reconsideration event allowance	
118	Other wash-ups	
119	Wash-up costs	-
120		
121	Impact of wash-up costs on ROI	-



Company Name **Nelson Electricity 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

sch ref		(\$000)
7	<b>3(i): Regulatory Profit</b>	
8	Income	
9	Line charge revenue	10,138
10	plus Gains / (losses) on asset disposals	(97)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	14
12		
13	<b>Total regulatory income</b>	<b>10,055</b>
14	Expenses	
15	less Operational expenditure	1,916
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	3,457
18		
19	<b>Operating surplus / (deficit)</b>	<b>4,682</b>
20		
21	less Total depreciation	1,426
22		
23	plus Total revaluations	454
24		
25	<b>Regulatory profit / (loss) before tax</b>	<b>3,710</b>
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	912
30		
31	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>	<b>2,798</b>
32		
33	<b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b>	(\$000)
34	Pass through costs	
35	Rates	32
36	Commerce Act levies	14
37	Industry levies	45
38	CPP specified pass through costs	
39	<b>Recoverable costs excluding financial incentives and wash-ups</b>	
40	Electricity lines service charge payable to Transpower	3,203
41	Transpower new investment contract charges	163
42	System operator services	
43	Distributed generation allowance	
44	Extended reserves allowance	
45	Other recoverable costs excluding financial incentives and wash-ups	
46	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>	<b>3,457</b>
47		





Company Name **Nelson Electricity 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	CY
		31 Mar 17	31 Mar 18
48	<b>3(iii): Incremental Rolling Incentive Scheme</b>		
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	<b>3(iv): Merger and Acquisition Expenditure</b>		
66			(\$000)
67	Merger and acquisition expenditure		-
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	<b>3(v): Other Disclosures</b>		
70			(\$000)
71	Self-insurance allowance		-



Company Name **Nelson Electricity 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. EDs 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.

	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)
<b>4(i): Regulatory Asset Base Value (Rolled Forward)</b>					
Total opening RAB value	30,349	42,203	41,669	41,100	41,246
less Total depreciation	1,173	1,430	1,394	1,391	1,426
plus Total revaluations	485	35	244	890	454
plus Assets commissioned	12,561	1,093	581	647	934
less Asset disposals	-	232	-	-	97
plus Lost and found assets adjustment					
plus Adjustment resulting from asset allocation					
Total closing RAB value	42,203	41,669	41,100	41,246	41,111

	Unallocated RAB * (\$000)	RAB (\$000)
<b>4(ii): Unallocated Regulatory Asset Base</b>		
Total opening RAB value	41,246	41,246
less Total depreciation	1,426	1,426
plus Total revaluations	454	454
plus Assets commissioned (other than below)	934	934
less Assets acquired from a regulated supplier		
Assets acquired from a related party		
Assets commissioned	934	934
less Asset disposals (other than below)		
Asset disposals to a regulated supplier	97	97
Asset disposals to a related party		
Asset disposals	97	97
plus Lost and found assets adjustment		
plus Adjustment resulting from asset allocation		
Total closing RAB value	41,111	41,111

\* 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 **Nelson Electricity Limited**  
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**SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)**

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 24 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the IO determination), and so is subject to the assurance report required by section 2.8.

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

CPI <sub>t</sub>	1.011
CPI <sub>t-4</sub>	1.000
Revaluation rate (%)	1.10%

  

Total opening RAB value	41,246	(\$000)
/less Opening value of fully depreciated, disposed and lost assets	41,246	(\$000)
Total opening RAB value subject to revaluation	41,246	(\$000)
Total revaluations	454	(\$000)
<b>RAB</b>	<b>41,246</b>	<b>(\$000)</b>

**4(iv): Roll Forward of Works Under Construction**

Works under construction—preceding disclosure year	72	Allocated works under construction	72
plus Capital expenditure	868		868
less Assets commissioned	934		934
plus Adjustment resulting from asset allocation			
Works under construction - current disclosure year	6		6
Highest rate of capitalised finance applied			



Company Name  
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**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.

4(v): Regulatory Depreciation	Unallocated RAB * (\\$000)	RAB (\\$000)
Depreciation - standard	1,426	1,426
Depreciation - no standard life assets		
Depreciation - modified life assets		
Depreciation - alternative depreciation in accordance with CPP		
<b>Total depreciation</b>	<b>1,426</b>	<b>1,426</b>

**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

**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 transformers and substations	Distribution switchgear	Other network assets	Non-network assets	Total
98	5,492	9,991	520	15,319	3,893	2,109	3,561	262	41,246
less	160	243	28	625	137	109	105	16	1,426
plus	60	110	6	169	43	23	39	3	454
plus	-	-	134	466	253	-	76	4	934
less	97	-	-	-	-	-	-	-	97
plus	-	-	-	-	-	-	-	-	-
plus	-	-	-	-	-	-	-	-	-
plus	5,392	9,858	632	15,329	4,052	2,023	3,571	253	41,111
<b>Total closing RAB value</b>									

  

Asset Life	Weighted average remaining asset life	Weighted average expected total asset life
99	35.0	28.9
100	50.4	44.5
101	26.5	22.7
102	57.9	54.4
103	13.4	25.5
104	39.9	54.8
105	21.8	44.6
106	0.7	7.5
107	-	-
108	-	-
109	-	-
110	-	-
111	-	-

\* include additional rows if needed





Company Name **Nelson Electricity Limited**  
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### SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 70

sch ref

		(\$000)
7	<b>5a(i): Regulatory Tax Allowance</b>	
8	Regulatory profit / (loss) before tax	3,710
9		
10	plus Income not included in regulatory profit / (loss) before tax but taxable	-
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	-
12	Amortisation of initial differences in asset values	693
13	Amortisation of revaluations	134
14		827
15		
16	less Total revaluations	454
17	Income included in regulatory profit / (loss) before tax but not taxable	-
18	Discretionary discounts and customer rebates	-
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	-
20	Notional deductible interest	825
21		1,278
22		
23	Regulatory taxable income	3,259
24		
25	less Utilised tax losses	-
26	Regulatory net taxable income	3,259
27		
28	Corporate tax rate (%)	28%
29	Regulatory tax allowance	912
30		

\* 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	14,554
37	less Amortisation of initial differences in asset values	693
38	plus Adjustment for unamortised initial differences in assets acquired	-
39	less Adjustment for unamortised initial differences in assets disposed	-
40	Closing unamortised initial differences in asset values	13,861
41		
42	Opening weighted average remaining useful life of relevant assets (years)	21
43		





Company Name **Nelson Electricity 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 7.0

sch ref

44	<b>5a(iv): Amortisation of Revaluations</b>				(5000)
45					
46	Opening sum of RAB values without revaluations			38,378	
47					
48	Adjusted depreciation			1,292	
49	Total depreciation			1,426	
50	Amortisation of revaluations				134
51					
52	<b>5a(v): Reconciliation of Tax Losses</b>				(5000)
53					
54	Opening tax losses			-	
55	plus Current period tax losses			-	
56	less Utilised tax losses			-	
57	Closing tax losses				-
58	<b>5a(vi): Calculation of Deferred Tax Balance</b>				(5000)
59					
60	Opening deferred tax			(1,272)	
61					
62	plus Tax effect of adjusted depreciation			362	
63					
64	less Tax effect of tax depreciation			367	
65					
66	plus Tax effect of other temporary differences*			3	
67					
68	less Tax effect of amortisation of initial differences in asset values			194	
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			(27)	
73					
74	plus Deferred tax cost allocation adjustment			(0)	
75					
76	Closing deferred tax				(1,441)
77					
78	<b>5a(vii): Disclosure of Temporary Differences</b>				
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	<b>5a(viii): Regulatory Tax Asset Base Roll-Forward</b>				
82					(5000)
83	Opening sum of regulatory tax asset values			18,613	
84	less Tax depreciation			1,310	
85	plus Regulatory tax asset value of assets commissioned			862	
86	less Regulatory tax asset value of asset disposals			-	
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				18,165



**Company Name**  
**Nelson Electricity 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

**5b(i): Summary—Related Party Transactions**

7	Total regulatory income	7
8	Operational expenditure	204
9	Capital expenditure	
10	Market value of asset disposals	
11	Other related party transactions	
12		

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

Name of related party	Related party relationship
Network Tasman Limited	
Marlborough Lines Limited	

\* include additional rows if needed

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

Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
Network Tasman Limited	Opex	Business Support	49	ID clause 2.3.6(1)(d)
Marlborough Lines Limited	Opex	Business Support	102	ID clause 2.3.6(1)(d)
Network Tasman Limited	Opex	Fibre Optic Charges	7	ID clause 2.3.6(1)(a)
Network Tasman Limited	Sales	Lease of Building Space	7	ID clause 2.3.6(1)(a)
Marlborough Lines Limited	Opex	Directors Fees	22	ID clause 2.3.6(1)(a)
Network Tasman Limited	Opex	Directors Fees	22	ID clause 2.3.6(1)(a)
Network Tasman Limited	Opex	Administration Fee	2	ID clause 2.3.6(1)(d)
				[Select one]
				[Select one]
				[Select one]
				[Select one]
				[Select one]
				[Select one]
				[Select one]

\* include additional rows if needed



Company Name  
Nelson Electricity Limited  
For Year Ended  
31 March 2018

**SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE**

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

sch ref

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

issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at Issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment

\* Include additional rows if needed

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

Gross term credit spread differential	
Total book value of interest bearing debt	
Leverage	4.4%
Average opening and closing RAB values	
Attribution Rate (%)	
Term credit spread differential allowance	



Company Name  
Nelson Electricity Limited  
For Year Ended  
31 March 2018

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EPBs 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	Arm's length deduction	Value allocated (\$000s)	Ovabaaa allocation increase (\$000s)
		Electricity distribution services	Non-electricity distribution services
			Total
7			
8			
9			
10			
11		72	-
12			
13		72	
14			
15		26	-
16			
17		26	
18			
19			
20		279	-
21			
22		279	
23			
24		73	-
25			
26		73	
27			
28		592	-
29			
30		592	
31			
32		874	-
33			
34		874	
35			
36		1,916	-
37			
38		1,916	





Company Name  
**Nelson Electricity Limited**  
 For Year Ended  
**31 March 2018**

**SCHEDULE 5d: REPORT ON COST ALLOCATIONS**

This schedule provides information on the allocation of operational costs. EDIs must provide explanatory comment on their cost allocation in Schedule 5d (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

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

**Pass through and recoverable costs**

**Pass through costs**

Directly attributable  
 Not directly attributable

**Total attributable to regulated service**

**Recoverable costs**

Directly attributable  
 Not directly attributable

**Total attributable to regulated service**

(\$000)

91
91

3,203
163
3,366

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

**Change in cost allocation 1**

Cost category  
 Original allocator or line items  
 New allocator or line items

(\$000)

Original allocation	Current Year (CY)
New allocation	Difference

**Rationale for change**

**Change in cost allocation 2**

Cost category  
 Original allocator or line items  
 New allocator or line items

(\$000)

Original allocation	Current Year (CY)
New allocation	Difference

**Rationale for change**

**Change in cost allocation 3**

Cost category  
 Original allocator or line items  
 New allocator or line items

(\$000)

Original allocation	Current Year (CY)
New allocation	Difference

**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 **Nelson Electricity 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	<b>Subtransmission lines</b>	
8	Directly attributable	–
9	Not directly attributable	–
10	<b>Total attributable to regulated service</b>	–
11	<b>Subtransmission cables</b>	
12	Directly attributable	5,392
13	Not directly attributable	–
14	<b>Total attributable to regulated service</b>	5,392
15	<b>Zone substations</b>	
16	Directly attributable	9,858
17	Not directly attributable	–
18	<b>Total attributable to regulated service</b>	9,858
19	<b>Distribution and LV lines</b>	
20	Directly attributable	632
21	Not directly attributable	–
22	<b>Total attributable to regulated service</b>	632
23	<b>Distribution and LV cables</b>	
24	Directly attributable	15,329
25	Not directly attributable	–
26	<b>Total attributable to regulated service</b>	15,329
27	<b>Distribution substations and transformers</b>	
28	Directly attributable	4,052
29	Not directly attributable	–
30	<b>Total attributable to regulated service</b>	4,052
31	<b>Distribution switchgear</b>	
32	Directly attributable	2,023
33	Not directly attributable	–
34	<b>Total attributable to regulated service</b>	2,023
35	<b>Other network assets</b>	
36	Directly attributable	3,571
37	Not directly attributable	–
38	<b>Total attributable to regulated service</b>	3,571
39	<b>Non-network assets</b>	
40	Directly attributable	253
41	Not directly attributable	–
42	<b>Total attributable to regulated service</b>	253
43	<b>Regulated service asset value directly attributable</b>	41,111
44	<b>Regulated service asset value not directly attributable</b>	–
45	<b>Total closing RAB value</b>	41,111

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

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

\* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component  
 † include additional rows if needed



Company Name **Nelson Electricity 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	<b>6a(i): Expenditure on Assets</b>		(\$000)	(\$000)
8	Consumer connection			–
9	System growth			155
10	Asset replacement and renewal			421
11	Asset relocations			208
12	Reliability, safety and environment:			
13	Quality of supply		–	
14	Legislative and regulatory		–	
15	Other reliability, safety and environment		156	
16	<b>Total reliability, safety and environment</b>			156
17	<b>Expenditure on network assets</b>			939
18	Expenditure on non-network assets			4
19				
20	<b>Expenditure on assets</b>			943
21	plus Cost of financing			
22	less Value of capital contributions			75
23	plus Value of vested assets			
24				
25	<b>Capital expenditure</b>			868
26	<b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>			(\$000)
27	Energy efficiency and demand side management, reduction of energy losses			
28	Overhead to underground conversion			
29	Research and development			
30	<b>6a(iii): Consumer Connection</b>			
31	Consumer types defined by EDB*		(\$000)	(\$000)
32	[EDB consumer type]			
33	[EDB consumer type]			
34	[EDB consumer type]			
35	[EDB consumer type]			
36	[EDB consumer type]			
37	* Include additional rows if needed			
38	<b>Consumer connection expenditure</b>			–
39				
40	less Capital contributions funding consumer connection expenditure			
41	<b>Consumer connection less capital contributions</b>			–
42	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>			
43			System Growth	Asset Replacement and
44			(\$000)	Renewal
45	Subtransmission		–	–
46	Zone substations		–	–
47	Distribution and LV lines		–	134
48	Distribution and LV cables		50	205
49	Distribution substations and transformers		105	–
50	Distribution switchgear		–	12
51	Other network assets		–	69
52	<b>System growth and asset replacement and renewal expenditure</b>		155	421
53	less Capital contributions funding system growth and asset replacement and renewal		32	36
54	<b>System growth and asset replacement and renewal less capital contributions</b>		123	385
55				
56	<b>6a(v): Asset Relocations</b>			
57	Project or programme*		(\$000)	(\$000)
58	[Description of material project or programme]			
59	[Description of material project or programme]			
60	[Description of material project or programme]			
61	[Description of material project or programme]			
62	[Description of material project or programme]			
63	* Include additional rows if needed			
64	All other projects or programmes - asset relocations		208	
65	<b>Asset relocations expenditure</b>			208
66	less Capital contributions funding asset relocations		6	
67	<b>Asset relocations less capital contributions</b>			201



Company Name **Nelson Electricity 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	<b>6a(vi): Quality of Supply</b>			
70	Project or programme*	(\$000)	(\$000)	
71	[Description of material project or programme]			
72	[Description of material project or programme]			
73	[Description of material project or programme]			
74	[Description of material project or programme]			
75	[Description of material project or programme]			
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	<b>6a(vii): Legislative and Regulatory</b>			
82	Project or programme*	(\$000)	(\$000)	
83	[Description of material project or programme]			
84	[Description of material project or programme]			
85	[Description of material project or programme]			
86	[Description of material project or programme]			
87	[Description of material project or programme]			
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	<b>6a(viii): Other Reliability, Safety and Environment</b>			
94	Project or programme*	(\$000)	(\$000)	
95	[Description of material project or programme]			
96	[Description of material project or programme]			
97	[Description of material project or programme]			
98	[Description of material project or programme]			
99	[Description of material project or programme]			
100	* Include additional rows if needed			
101	All other projects or programmes - other reliability, safety and environment	156		
102	Other reliability, safety and environment expenditure			156
103	less Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions			156
105				
106	<b>6a(ix): Non-Network Assets</b>			
107	<b>Routine expenditure</b>			
108	Project or programme*	(\$000)	(\$000)	
109	[Description of material project or programme]			
110	[Description of material project or programme]			
111	[Description of material project or programme]			
112	[Description of material project or programme]			
113	[Description of material project or programme]			
114	* Include additional rows if needed			
115	All other projects or programmes - routine expenditure	4		
116	Routine expenditure			4
117	<b>Atypical expenditure</b>			
118	Project or programme*	(\$000)	(\$000)	
119	[Description of material project or programme]			
120	[Description of material project or programme]			
121	[Description of material project or programme]			
122	[Description of material project or programme]			
123	[Description of material project or programme]			
124	* Include additional rows if needed			
125	All other projects or programmes - atypical expenditure			
126	Atypical expenditure			
127				
128	Expenditure on non-network assets			4





Company Name  
For Year Ended

Nelson Electricity Limited  
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

**6b(i): Operational Expenditure**

7					
8	Service interruptions and emergencies			72	
9	Vegetation management			26	
10	Routine and corrective maintenance and inspection			279	
11	Asset replacement and renewal			73	
12	<b>Network opex</b>				450
13	System operations and network support			592	
14	Business support			874	
15	<b>Non-network opex</b>				1,466
16					
17	<b>Operational expenditure</b>				1,916

**6b(ii): Subcomponents of Operational Expenditure (where known)**

18					
19	Energy efficiency and demand side management, reduction of energy losses				
20	Direct billing*				
21	Research and development				
22	Insurance				125
23					

\* Direct billing expenditure by suppliers that directly bill the majority of their consumers



Company Name **Nelson Electricity 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

7	<b>7(i): Revenue</b>	Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
8	Line charge revenue	10,025	10,138	1%
9	<b>7(ii): Expenditure on Assets</b>	Forecast (\$000) <sup>2</sup>	Actual (\$000)	% variance
10	Consumer connection	81	–	(100%)
11	System growth	100	155	55%
12	Asset replacement and renewal	530	421	(21%)
13	Asset relocations	–	208	–
14	Reliability, safety and environment:			
15	Quality of supply	30	–	(100%)
16	Legislative and regulatory	50	–	(100%)
17	Other reliability, safety and environment	179	156	(13%)
18	<b>Total reliability, safety and environment</b>	259	156	(40%)
19	<b>Expenditure on network assets</b>	970	939	(3%)
20	Expenditure on non-network assets	98	4	(96%)
21	<b>Expenditure on assets</b>	1,068	943	(12%)
22	<b>7(iii): Operational Expenditure</b>			
23	Service interruptions and emergencies	125	72	(42%)
24	Vegetation management	35	26	(26%)
25	Routine and corrective maintenance and inspection	234	279	19%
26	Asset replacement and renewal	330	73	(78%)
27	<b>Network opex</b>	724	450	(38%)
28	System operations and network support	250	592	137%
29	Business support	1,150	874	(24%)
30	<b>Non-network opex</b>	1,400	1,466	5%
31	<b>Operational expenditure</b>	2,124	1,916	(10%)
32	<b>7(iv): Subcomponents of Expenditure on Assets (where known)</b>			
33	Energy efficiency and demand side management, reduction of energy losses		–	–
34	Overhead to underground conversion		–	–
35	Research and development		–	–
36				
37	<b>7(v): Subcomponents of Operational Expenditure (where known)</b>			
38	Energy efficiency and demand side management, reduction of energy losses		–	–
39	Direct billing		–	–
40	Research and development		–	–
41	Insurance		125	–
42				

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	Nelson Electricity 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

					Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units				
9	All	Overhead Line	Concrete poles / steel structure	No.	711	716	5	2
10	All	Overhead Line	Wood poles	No.	183	178	(5)	2
11	All	Overhead Line	Other pole types	No.	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	-	N/A
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	12	12	0	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	6	6	-	2
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	1	1	-	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	-	N/A
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	10	10	-	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	-	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	26	26	-	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	3	3	-	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	5	7	1	2
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
37	HV	Distribution Line	SWER conductor	km	2	-	(2)	2
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	23	24	1	2
39	HV	Distribution Cable	Distribution UG PILC	km	51	52	1	2
40	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	1	1	-	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	39	41	2	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	23	23	-	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	47	47	-	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	253	259	6	2
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	15	15	-	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	184	183	(1)	3
48	HV	Distribution Transformer	Voltage regulators	No.	-	-	-	N/A
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	184	183	(1)	3
50	LV	LV Line	LV OH Conductor	km	23	22	(1)	2
51	LV	LV Cable	LV UG Cable	km	173	174	1	2
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	69	69	(0)	2
53	LV	Connections	OH/UG consumer service connections	No.	9,206	9,209	3	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	75	75	-	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	4
56	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	N/A
57	All	Load Control	Centralised plant	Lot	1	1	-	4
58	All	Load Control	Relays	No.	-	-	-	N/A
59	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name  
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**SCHEDULE 9B: ASSET AGE PROFILE**

This schedule provides a summary of the age profiles (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 length.

Table with columns for Asset Category, Asset Class, and Number of assets at the close of each year from 1990 to 2018. The table lists various asset types such as overhead lines, cables, and transformers, along with their installation counts for each year. Summary rows at the bottom provide totals for 'No. with estimate' and 'No. with Data expiry'. A 'Notes' section at the bottom right contains specific details for certain asset classes.



Company Name **Nelson Electricity Limited**

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**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	<b>Circuit length by operating voltage (at year end)</b>	<b>Overhead (km)</b>	<b>Underground (km)</b>	<b>Total circuit length (km)</b>
11	> 66kV			–
12	50kV & 66kV			–
13	33kV		18	18
14	SWER (all SWER voltages)			–
15	22kV (other than SWER)			–
16	6.6kV to 11kV (inclusive—other than SWER)	8	76	84
17	Low voltage (< 1kV)	22	174	196
18	<b>Total circuit length (for supply)</b>	<b>30</b>	<b>267</b>	<b>297</b>
19				
20	Dedicated street lighting circuit length (km)	1	69	70
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				
23	<b>Overhead circuit length by terrain (at year end)</b>	<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>	
24	Urban	28	93%	
25	Rural		–	
26	Remote only	2	7%	
27	Rugged only		–	
28	Remote and rugged		–	
29	Unallocated overhead lines		–	
30	<b>Total overhead length</b>	<b>30</b>	<b>100%</b>	
31				
32		<b>Circuit length (km)</b>	<b>(% of total circuit length)</b>	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	297	100%	
34		<b>Circuit length (km)</b>	<b>(% of total overhead length)</b>	
35	Overhead circuit requiring vegetation management	30	100%	



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**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	Nelson Electricity Limited
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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	<b>9e(i): Consumer Connections</b>		
9	Number of ICPs connected in year by consumer type		
10	Consumer types defined by EDB*	Number of connections (ICPs)	
11	Load Group 0	7	
12	Load Group 1	16	
13	Load Group 2	26	
14	Load Group 3	2	
15	Load Group 4		
16	* include additional rows if needed		
17	Connections total	51	
18			
19	<b>Distributed generation</b>		
20	Number of connections made in year	20	connections
21	Capacity of distributed generation installed in year	0.06	MVA
22	<b>9e(ii): System Demand</b>		
23			
24		Demand at time of maximum coincident demand (MW)	
25	<b>Maximum coincident system demand</b>		
26	GXP demand	33	
27	plus Distributed generation output at HV and above	-	
28	<b>Maximum coincident system demand</b>	33	
29	less Net transfers to (from) other EDBs at HV and above	-	
30	<b>Demand on system for supply to consumers' connection points</b>	33	
31	<b>Electricity volumes carried</b>	Energy (GWh)	
32	Electricity supplied from GXPs	146	
33	less Electricity exports to GXPs		
34	plus Electricity supplied from distributed generation	0	
35	less Net electricity supplied to (from) other EDBs		
36	<b>Electricity entering system for supply to consumers' connection points</b>	146	
37	less Total energy delivered to ICPs	140	
38	<b>Electricity losses (loss ratio)</b>	5	3.7%
39			
40	<b>Load factor</b>	0.50	
41	<b>9e(iii): Transformer Capacity</b>		
42		(MVA)	
43	Distribution transformer capacity (EDB owned)	99	
44	Distribution transformer capacity (Non-EDB owned, estimated)	-	
45	<b>Total distribution transformer capacity</b>	99	
46			
47	<b>Zone substation transformer capacity</b>	48	

Company Name	Nelson Electricity Limited
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**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	<b>10(i): Interruptions</b>		
9	<b>Interruptions by class</b>	<b>Number of Interruptions</b>	
10	Class A (planned interruptions by Transpower)	-	
11	Class B (planned interruptions on the network)	9	
12	Class C (unplanned interruptions on the network)	3	
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	<b>Total</b>	<b>13</b>	
20			
21	<b>Interruption restoration</b>	<b>≤3Hrs</b>	<b>&gt;3hrs</b>
22	Class C interruptions restored within	3	-
23			
24	<b>SAIFI and SAIDI by class</b>	<b>SAIFI</b>	<b>SAIDI</b>
25	Class A (planned interruptions by Transpower)	-	-
26	Class B (planned interruptions on the network)	0.04	6.9
27	Class C (unplanned interruptions on the network)	0.22	9.6
28	Class D (unplanned interruptions by Transpower)	1.00	116.7
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	<b>Total</b>	<b>1.26</b>	<b>133.2</b>
35			
36	<b>Normalised SAIFI and SAIDI</b>	<b>Normalised SAIFI</b>	<b>Normalised SAIDI</b>
37	Classes B & C (Interruptions on the network)	0.09	9.3
38			
39	<b>Quality path normalised reliability limit</b>	<b>SAIFI reliability limit</b>	<b>SAIDI reliability limit</b>
40	SAIFI and SAIDI limits applicable to disclosure year*	0.24	22.2
41	* not applicable to exempt EDBs		



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**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	-	-
Vegetation	-	-
Adverse weather	0.00	0.5
Adverse environment	-	-
Third party interference	-	-
Wildlife	0.14	5.5
Human error	-	-
Defective equipment	-	-
Cause unknown	0.08	3.6

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	-	-
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.01	2.1
Distribution cables (excluding LV)	0.00	0.0
Distribution other (excluding LV)	0.03	4.7

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	-	-
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.22	9.1
Distribution cables (excluding LV)	-	-
Distribution other (excluding LV)	0.00	0.5

**10(v): Fault Rate**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	-	-	-
Subtransmission cables	-	18	-
Subtransmission other	-	-	-
Distribution lines (excluding LV)	2	8	26.33
Distribution cables (excluding LV)	-	76	-
Distribution other (excluding LV)	1	-	-
<b>Total</b>	<b>3</b>		

