COMMERCE COMMISSION NEW ZEALAND

EDB Information Disclosure Requirements
Information Templates
for
Schedules 1–10

Company Name	EA Networks
Disclosure Date	
Disclosure Year (year ended)	31 March 2020

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

pwc

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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 21 December 2017). 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	**EA Networks**
For Year Ended	**31 March 2020**

SCHEDULE 1: ANALYTICAL RATIOS

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

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

sch ref

1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
Operational expenditure	21,740	671	74,373	4,292	21,985
Network	7,051	218	24,122	1,392	7,131
Non-network	14,689	453	50,251	2,900	14,854
Expenditure on assets	48,505	1,496	165,941	9,576	49,052
Network	28,757	887	98,379	5,677	29,081
Non-network	19,749	609	67,562	3,899	19,971

1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
Total consumer line charge revenue	91,655	2,827
Standard consumer line charge revenue	91,655	2,827
Non-standard consumer line charge revenue	–	–

1(iii): Service intensity measures

Demand density	58	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
Volume density	197	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
Connection point density	6	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
Energy intensity	30,849	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*

1(iv): Composition of regulatory income

	($000)	% of revenue
Operational expenditure	13,193	24.13%
Pass-through and recoverable costs excluding financial incentives and wash-ups	17,185	31.43%
Total depreciation	9,990	18.27%
Total revaluations	6,771	12.38%
Regulatory tax allowance	2,990	5.47%
Regulatory profit/(loss) including financial incentives and wash-ups	18,096	33.09%
Total regulatory income	54,683	

1(v): Reliability

Interruption rate	15.45	*Interruptions per 100 circuit km*

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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 31 Mar 18 %	CY-1 31 Mar 19 %	Current Year CY 31 Mar 20 %
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	5.58%	5.53%	6.47%
Excluding revenue earned from financial incentives	5.51%	5.49%	6.57%
Excluding revenue earned from financial incentives and wash-ups	5.56%	5.53%	6.62%
Mid-point estimate of post tax WACC	5.04%	4.75%	4.27%
25th percentile estimate	4.36%	4.07%	3.59%
75th percentile estimate	5.72%	5.43%	4.95%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	6.17%	6.04%	6.89%
Excluding revenue earned from financial incentives	6.11%	6.00%	7.00%
Excluding revenue earned from financial incentives and wash-ups	6.15%	6.04%	7.04%
WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
Mid-point estimate of vanilla WACC	5.60%	5.26%	4.69%
25th percentile estimate	4.92%	4.58%	4.01%
75th percentile estimate	6.29%	5.94%	5.37%

2(ii): Information Supporting the ROI

		($000)	
	Total opening RAB value	268,447	
plus	Opening deferred tax	(14,143)	
Opening RIV			254,304
Line charge revenue			55,622
	Expenses cash outflow	30,378	
add	Assets commissioned	29,987	
less	Asset disposals	1,095	
add	Tax payments	1,741	
less	Other regulated income	(939)	
Mid-year net cash outflows			61,950
Term credit spread differential allowance			-
	Total closing RAB value	292,650	
less	Adjustment resulting from asset allocation	(1,470)	
less	Lost and found assets adjustment	-	
plus	Closing deferred tax	(15,391)	
Closing RIV			278,728

ROI – comparable to a vanilla WACC	6.89%
Leverage (%)	42%
Cost of debt assumption (%)	3.61%
Corporate tax rate (%)	28%
ROI – comparable to a post tax WACC	6.47%

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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

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sch ref

2(iii): Information Supporting the Monthly ROI

Opening RIV — N/A

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

Tax payments — N/A

Term credit spread differential allowance — N/A

Closing RIV — N/A

Monthly ROI – comparable to a vanilla WACC — N/A

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

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

Year-end ROI – comparable to a vanilla WACC — 6.92%

Year-end ROI – comparable to a post tax WACC — 6.49%

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

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	-	
Purchased assets – avoided transmission charge		
Energy efficiency and demand incentive allowance		
Quality incentive adjustment	(372)	
Other financial incentives		
Financial incentives		(372)

Impact of financial incentives on ROI — -0.10%

Input methodology claw-back		
CPP application recoverable costs		
Catastrophic event allowance		
Capex wash-up adjustment	(164)	
Transmission asset wash-up adjustment		
2013–15 NPV wash-up allowance		
Reconsideration event allowance		
Other wash-ups		
Wash-up costs		(164)

Impact of wash-up costs on ROI — -0.05%

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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)
7		**3(i): Regulatory Profit**	
8		**Income**	
9		Line charge revenue	55,622
10	*plus*	Gains / (losses) on asset disposals	(1,094)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	156
12			
13		**Total regulatory income**	54,683
14		**Expenses**	
15	*less*	Operational expenditure	13,193
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	17,185
18			
19		**Operating surplus / (deficit)**	24,305
20			
21	*less*	Total depreciation	9,990
22			
23	*plus*	Total revaluations	6,771
24			
25		**Regulatory profit / (loss) before tax**	21,085
26			
27	*less*	Term credit spread differential allowance	-
28			
29	*less*	Regulatory tax allowance	2,990
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	18,096
32			

			($000)	
33		**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**		
34		**Pass through costs**		
35		Rates	195	
36		Commerce Act levies	97	
37		Industry levies	97	
38		CPP specified pass through costs	11	
39		**Recoverable costs excluding financial incentives and wash-ups**		
40		Electricity lines service charge payable to Transpower	15,381	
41		Transpower new investment contract charges	1,214	
42		System operator services	-	
43		Distributed generation allowance	190	
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**		17,185
47				

Company Name	**EA Networks**
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SCHEDULE 3: REPORT ON REGULATORY PROFIT

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sch ref

3(iii): Incremental Rolling Incentive Scheme

($000)

		CY-1 31 Mar 19	CY 31 Mar 20
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 15		
58	CY-4	31 Mar 16		
59	CY-3	31 Mar 17		
60	CY-2	31 Mar 18		
61	CY-1	31 Mar 19		
62	**Net incremental rolling incentive scheme**			-
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			-

3(iv): Merger and Acquisition Expenditure

		($000)
66	Merger and acquisition expenditure	
67		
68	*Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)*	

3(v): Other Disclosures

		($000)
71	Self-insurance allowance	

Company Name	**EA Networks**
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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 16 ($000)	RAB 31 Mar 17 ($000)	RAB 31 Mar 18 ($000)	RAB 31 Mar 19 ($000)	RAB 31 Mar 20 ($000)
	Total opening RAB value		226,349	237,258	251,141	259,359	268,447
	less **Total depreciation**		7,616	8,152	9,240	9,530	9,990
	plus **Total revaluations**		1,324	5,072	2,756	3,831	6,771
	plus **Assets commissioned**		17,848	19,679	14,921	16,376	29,987
	less **Asset disposals**		647	2,717	218	773	1,095
	plus **Lost and found assets adjustment**						-
	plus **Adjustment resulting from asset allocation**		0	0	(0)	(816)	(1,470)
	Total closing RAB value		237,258	251,141	259,359	268,447	292,650

4(ii): Unallocated Regulatory Asset Base

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
	Total opening RAB value		269,263		268,447
	less **Total depreciation**		10,034		9,990
	plus **Total revaluations**		6,791		6,771
	plus Assets commissioned (other than below)	14,210		14,170	
	Assets acquired from a regulated supplier	-		-	
	Assets acquired from a related party	15,817		15,817	
	Assets commissioned		30,027		29,987
	less Asset disposals (other than below)	1,095		1,095	
	Asset disposals to a regulated supplier	-		-	
	Asset disposals to a related party	-		-	
	Asset disposals		1,095		1,095
	plus **Lost and found assets adjustment**		-		-
	plus **Adjustment resulting from asset allocation**				(1,470)
	Total closing RAB value		294,953		292,650

** 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	**EA Networks**
For Year Ended	**31 March 2020**

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

sch ref			
54		CPI_4	1,052
55		CPI_4^{-4}	1,026
56		Revaluation rate (%)	2.53%

sch ref			Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
60		Total opening RAB value	269,263		268,447	
61	*less*	Opening value of fully depreciated, disposed and lost assets	1,272		1,272	
63		Total opening RAB value subject to revaluation	267,991		267,176	
64		**Total revaluations**		6,791		6,771

4(iv): Roll Forward of Works Under Construction

sch ref			Unallocated works under construction		Allocated works under construction	
68		**Works under construction—preceding disclosure year**		5,978		5,978
69	*plus*	Capital expenditure	28,930		28,930	
70	*less*	Assets commissioned	30,027		29,987	
71	*plus*	Adjustment resulting from asset allocation			(40)	
72		**Works under construction - current disclosure year**		4,881		4,881

sch ref		
74		Highest rate of capitalised finance applied

Company Name	**EA Networks**
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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

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

sch ref

4(v): Regulatory Depreciation

		Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
79	Depreciation - standard	8,474		8,474	
80	Depreciation - no standard life assets	1,559		1,516	
81	Depreciation - modified life assets				
82	Depreciation - alternative depreciation in accordance with CPP				
83	**Total depreciation**		10,034		9,990

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
87					
88					
89					
90					
91					
92					
93					
94					

** include additional rows if needed*

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total	
99	**Total opening RAB value**	12,623	831	23,675	48,655	72,051	59,757	35,267	1,508	14,081	268,447	
100	*less* Total depreciation	448	29	913	1,816	1,722	1,907	1,527	112	1,516	9,990	
101	*plus* Total revaluations	315	21	600	1,217	1,822	1,512	892	36	357	6,771	
102	*plus* Assets commissioned	1,070	2,684	2,887	2,503	4,246	3,525	1,094	393	11,587	29,987	
103	*less* Asset disposals	209	–	–	617	167	65	37	–	–	1,095	
104	*plus* Lost and found assets adjustment	–	–	–	–	–	–	–	–	–	–	
105	*plus* Adjustment resulting from asset allocation	–	–	–	–	–	–	–	0	(1,470)	(1,470)	
106	*plus* Asset category transfers	–	–	(136)	–	–	–	–	136	–	–	
107	**Total closing RAB value**	13,351	3,506	26,112	49,942	76,229	62,822	35,688	1,962	23,038	292,650	
108												
109	**Asset Life**											
110	Weighted average remaining asset life	32.6	32.8	32.7	31.3	45.3	36.6	27.4	10.1	19.5		(years)
111	Weighted average expected total asset life	45.0	55.0	44.0	46.0	55.1	45.0	40.0	11.5	22.6		(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					
7	**5a(i): Regulatory Tax Allowance**				($000)
8		**Regulatory profit / (loss) before tax**			21,085
9					
10	*plus*	Income not included in regulatory profit / (loss) before tax but taxable	188	*	
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	1,094	*	
12		Amortisation of initial differences in asset values	2,125		
13		Amortisation of revaluations	897		
14					4,304
15					
16	*less*	Total revaluations	6,771		
17		Income included in regulatory profit / (loss) before tax but not taxable	21	*	
18		Discretionary discounts and customer rebates	2,943		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	1,189	*	
20		Notional deductible interest	3,788		
21					14,712
22					
23		**Regulatory taxable income**			10,677
24					
25	*less*	Utilised tax losses			
26		Regulatory net taxable income			10,677
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			2,990
30					
31	* Workings to be provided in Schedule 14				
32	**5a(ii): Disclosure of Permanent Differences**				
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).			
34	**5a(iii): Amortisation of Initial Difference in Asset Values**				($000)
35					
36		Opening unamortised initial differences in asset values	57,368		
37	*less*	Amortisation of initial differences in asset values	2,125		
38	*plus*	Adjustment for unamortised initial differences in assets acquired			
39	*less*	Adjustment for unamortised initial differences in assets disposed	570		
40		Closing unamortised initial differences in asset values			54,673
41					
42		Opening weighted average remaining useful life of relevant assets (years)			27
43					

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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).
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sch ref				
44	**5a(iv): Amortisation of Revaluations**			($000)
45				
46		Opening sum of RAB values without revaluations	246,234	
47				
48		Adjusted depreciation	9,093	
49		Total depreciation	9,990	
50		Amortisation of revaluations		897
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**	(14,143)	
61				
62	*plus*	Tax effect of adjusted depreciation	2,546	
63				
64	*less*	Tax effect of tax depreciation	3,297	
65				
66	*plus*	Tax effect of other temporary differences*	21	
67				
68	*less*	Tax effect of amortisation of initial differences in asset values	595	
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	(24)	
73				
74	*plus*	Deferred tax cost allocation adjustment	53	
75				
76		**Closing deferred tax**		(15,391)
77				
78	**5a(vii): Disclosure of Temporary Differences**			
79		*In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).*		
80				
81	**5a(viii): Regulatory Tax Asset Base Roll-Forward**			
82				($000)
83		**Opening sum of regulatory tax asset values**	137,930	
84	*less*	Tax depreciation	11,775	
85	*plus*	Regulatory tax asset value of assets commissioned	29,912	
86	*less*	Regulatory tax asset value of asset disposals	368	
87	*plus*	Lost and found assets adjustment	–	
88	*plus*	Adjustment resulting from asset allocation	(1,281)	
89	*plus*	Other adjustments to the RAB tax value		
90		**Closing sum of regulatory tax asset values**		154,417

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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

5b(i): Summary—Related Party Transactions

	($000)	($000)
Total regulatory income		-
Market value of asset disposals		-
Service interruptions and emergencies	518	
Vegetation management	331	
Routine and corrective maintenance and inspection	538	
Asset replacement and renewal (opex)	1,265	
Network opex		2,653
Business support	209	
System operations and network support	195	
Operational expenditure		3,056
Consumer connection	651	
System growth	1,126	
Asset replacement and renewal (capex)	2,651	
Asset relocations	-	
Quality of supply	375	
Legislative and regulatory	-	
Other reliability, safety and environment	337	
Expenditure on non-network assets		10,678
Expenditure on assets		15,817
Cost of financing		-
Value of capital contributions		-
Value of vested assets		-
Capital Expenditure		15,817
Total expenditure		18,873
Other related party transactions		-

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)
Cullimore Engineering Limited	System growth	74
Cullimore Engineering Limited	Asset replacement and renewal (capex)	8
Ashburton District Council	Business support	25
Ashburton District Council	System operations and network support	195
Ashburton Contracting Limited	Routine and corrective maintenance and inspection	1
Ashburton Contracting Limited	Asset replacement and renewal (opex)	3
Ashburton Contracting Limited	Consumer connection	4
Ashburton Contracting Limited	System growth	5
Ashburton Contracting Limited	Asset replacement and renewal (capex)	78
Ashburton Contracting Limited	Quality of supply	2
Ashburton Contracting Limited	Other reliability, safety and environment	1
EA Networks - Field Services	Service interruptions and emergencies	518
EA Networks - Field Services	Vegetation management	331
EA Networks - Field Services	Routine and corrective maintenance and inspection	538
EA Networks - Field Services	Asset replacement and renewal (opex)	1,262
EA Networks - Field Services	Business support	184
EA Networks - Field Services	Consumer connection	647
EA Networks - Field Services	System growth	1,046
EA Networks - Field Services	Asset replacement and renewal (capex)	2,564
EA Networks - Field Services	Quality of supply	373
EA Networks - Field Services	Other reliability, safety and environment	336
EA Networks - Field Services	Expenditure on non-network assets	16
EA Fibre	Expenditure on non-network assets	10,662
Total value of related party transactions		18,873

** include additional rows if needed*

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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	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	42%	
Average opening and closing RAB values		
Attribution Rate (%)		-
Term credit spread differential allowance		-

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(i): Operating Cost Allocations

		Value allocated ($000s)			
	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
Service interruptions and emergencies					
Directly attributable		1,164			
Not directly attributable				-	
Total attributable to regulated service		1,164			
Vegetation management					
Directly attributable		556			
Not directly attributable				-	
Total attributable to regulated service		556			
Routine and corrective maintenance and inspection					
Directly attributable		1,051			
Not directly attributable				-	
Total attributable to regulated service		1,051			
Asset replacement and renewal					
Directly attributable		1,508			
Not directly attributable				-	
Total attributable to regulated service		1,508			
System operations and network support					
Directly attributable		3,775			
Not directly attributable				-	
Total attributable to regulated service		3,775			
Business support					
Directly attributable		467			
Not directly attributable		4,672	619	5,291	
Total attributable to regulated service		5,139			
Operating costs directly attributable		8,521			
Operating costs not directly attributable	-	4,672	619	5,291	-
Operational expenditure		13,193			

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

	($000)
Pass through and recoverable costs	
Pass through costs	
Directly attributable	400
Not directly attributable	
Total attributable to regulated service	400
Recoverable costs	
Directly attributable	16,785
Not directly attributable	
Total attributable to regulated service	16,785

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

Change in cost allocation 1

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

Rationale for change

Change in cost allocation 2

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

Rationale for change

Change in cost allocation 3

		($000) CY-1	($000) Current Year (CY)
Cost category	Original allocation		
Original allocator or line items	New allocation		
New allocator or line items	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	EA Networks
For Year Ended	31 March 2020

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4.
EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

5e(i): Regulated Service Asset Values

sch ref		Value allocated ($000s) Electricity distribution services
10	**Subtransmission lines**	
11	Directly attributable	13,351
12	Not directly attributable	
13	Total attributable to regulated service	13,351
14	**Subtransmission cables**	
15	Directly attributable	3,506
16	Not directly attributable	
17	Total attributable to regulated service	3,506
18	**Zone substations**	
19	Directly attributable	26,112
20	Not directly attributable	
21	Total attributable to regulated service	26,112
22	**Distribution and LV lines**	
23	Directly attributable	49,942
24	Not directly attributable	
25	Total attributable to regulated service	49,942
26	**Distribution and LV cables**	
27	Directly attributable	76,229
28	Not directly attributable	
29	Total attributable to regulated service	76,229
30	**Distribution substations and transformers**	
31	Directly attributable	62,822
32	Not directly attributable	
33	Total attributable to regulated service	62,822
34	**Distribution switchgear**	
35	Directly attributable	35,688
36	Not directly attributable	
37	Total attributable to regulated service	35,688
38	**Other network assets**	
39	Directly attributable	1,960
40	Not directly attributable	2
41	Total attributable to regulated service	1,962
42	**Non-network assets**	
43	Directly attributable	16,460
44	Not directly attributable	6,578
45	Total attributable to regulated service	23,038
46		
47	Regulated service asset value directly attributable	286,069
48	Regulated service asset value not directly attributable	6,581
49	Total closing RAB value	292,650

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

			($000) CY-1	($000) Current Year (CY)
53	Change in asset value allocation 1			
54	Asset category	Original allocation		
55	Original allocator or line items	New allocation		
56	New allocator or line items	Difference	–	–
58	Rationale for change			
62	Change in asset value allocation 2			
63	Asset category	Original allocation		
64	Original allocator or line items	New allocation		
65	New allocator or line items	Difference	–	–
67	Rationale for change			
71	Change in asset value allocation 3			
72	Asset category	Original allocation		
73	Original allocator or line items	New allocation		
74	New allocator or line items	Difference	–	–
76	Rationale for change			

79 ** 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.*
80 *† include additional rows if needed*

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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			($000)	($000)
7		**6a(i): Expenditure on Assets**		
8		Consumer connection		2,024
9		System growth		4,443
10		Asset replacement and renewal		8,251
11		Asset relocations		–
12		Reliability, safety and environment:		
13		Quality of supply	1,655	
14		Legislative and regulatory	–	
15		Other reliability, safety and environment	1,079	
16		**Total reliability, safety and environment**		2,734
17		**Expenditure on network assets**		17,451
18		Expenditure on non-network assets		11,985
19				
20		**Expenditure on assets**		29,436
21	*plus*	Cost of financing		–
22	*less*	Value of capital contributions		506
23	*plus*	Value of vested assets		–
24				
25		**Capital expenditure**		28,930

			($000)
26		**6a(ii): Subcomponents of Expenditure on Assets (where known)**	
27		Energy efficiency and demand side management, reduction of energy losses	
28		Overhead to underground conversion	4,668
29		Research and development	

			($000)	($000)
30		**6a(iii): Consumer Connection**		
31		*Consumer types defined by EDB**	($000)	($000)
32		Large Connection	160	
33		Rural without Transformer	184	
34		Rural with transformer	593	
35		Safety	152	
		Subdivision	408	
		Tariff group change	191	
36		Urban	336	
37		** include additional rows if needed*		
38		**Consumer connection expenditure**		2,024
39				
40	*less*	Capital contributions funding consumer connection expenditure	463	
41		**Consumer connection less capital contributions**		1,561

			System Growth ($000)	Asset Replacement and Renewal ($000)
42		**6a(iv): System Growth and Asset Replacement and Renewal**		
43				
44				
45		Subtransmission	427	979
46		Zone substations	2,601	51
47		Distribution and LV lines	312	2,119
48		Distribution and LV cables	144	3,576
49		Distribution substations and transformers	693	1,177
50		Distribution switchgear	252	315
51		Other network assets	14	34
52		**System growth and asset replacement and renewal expenditure**	4,443	8,251
53	*less*	Capital contributions funding system growth and asset replacement and renewal		41
54		**System growth and asset replacement and renewal less capital contributions**	4,443	8,210
55				

			($000)	($000)
56		**6a(v): Asset Relocations**		
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		
65		**Asset relocations expenditure**		–
66	*less*	Capital contributions funding asset relocations		
67		**Asset relocations less capital contributions**		–

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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.

6a(vi): Quality of Supply

sch ref		*Project or programme**	($000)	($000)
71		[2019-2020] SCADA - Distribution Automation Programme	117	
72		[2018-2020] Rural Ring Main Unit Installations	1,238	
73		[2019-2020] ZZS - Upgrading 110v DC Supplies	57	
74		[2019-2020] 11kV core network centre	89	
75				
76		** include additional rows if needed*		
77		All other projects programmes - quality of supply	154	
78		**Quality of supply expenditure**		1,655
79	*less*	Capital contributions funding quality of supply		
80		**Quality of supply less capital contributions**		1,655

6a(vii): Legislative and Regulatory

sch ref		*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**		-

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

sch ref		*Project or programme**	($000)	($000)
95		[2019-2020] Distribution Earthing Upgrades	490	
96		[2019-2020] UG Conversion - State Hwy Road Crossing	382	
97				
98				
99				
100		** include additional rows if needed*		
101		All other projects or programmes - other reliability, safety and environment	207	
102		**Other reliability, safety and environment expenditure**		1,079
103	*less*	Capital contributions funding other reliability, safety and environment	2	
104		**Other reliability, safety and environment less capital contributions**		1,077

6a(ix): Non-Network Assets

Routine expenditure

sch ref		*Project or programme**	($000)	($000)
109		[2019-2020] IT	165	
110		[2019-2020] Plant	97	
111		[2019-2020] Vehicles	188	
112		Photocopier rental lease	102	
113				
114		** include additional rows if needed*		
115		All other projects or programmes - routine expenditure		
116		**Routine expenditure**		552

Atypical expenditure

sch ref		*Project or programme**	($000)	($000)
119		[2018-2020] Distribution Management System	521	
120		[2019-2020] DMR Repeater	45	
		Lease recognised under NZIFRS16	10,820	
121				
122				
123				
124		** include additional rows if needed*		
125		All other projects or programmes - atypical expenditure	47	
126		**Atypical expenditure**		11,433
127				
128		**Expenditure on non-network assets**		11,985

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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	1,164	
9	Vegetation management	556	
10	Routine and corrective maintenance and inspection	1,051	
11	Asset replacement and renewal	1,508	
12	**Network opex**		4,279
13	System operations and network support	3,775	
14	Business support	5,139	
15	**Non-network opex**		8,914
16			
17	**Operational expenditure**		13,193
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		21
20	Direct billing*		
21	Research and development		41
22	Insurance		195
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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	53,845	55,622	3%
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	3,592	2,024	(44%)
11	System growth	4,921	4,443	(10%)
12	Asset replacement and renewal	8,024	8,251	3%
13	Asset relocations	–	–	–
14	Reliability, safety and environment:			
15	Quality of supply	3,356	1,655	(51%)
16	Legislative and regulatory	–	–	–
17	Other reliability, safety and environment	653	1,079	65%
18	**Total reliability, safety and environment**	4,009	2,734	(32%)
19	**Expenditure on network assets**	20,546	17,451	(15%)
20	Expenditure on non-network assets	1,629	11,985	636%
21	Expenditure on assets	22,175	29,436	33%
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	1,113	1,164	5%
24	Vegetation management	493	556	13%
25	Routine and corrective maintenance and inspection	1,430	1,051	(27%)
26	Asset replacement and renewal	1,157	1,508	30%
27	**Network opex**	4,193	4,279	2%
28	System operations and network support	5,008	3,775	(25%)
29	Business support	5,511	5,139	(7%)
30	**Non-network opex**	10,519	8,914	(15%)
31	**Operational expenditure**	14,712	13,193	(10%)
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	50	–	(100%)
34	Overhead to underground conversion	4,578	4,668	2%
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		21	–
39	Direct billing		–	–
40	Research and development	250	41	(84%)
41	Insurance	182	195	7%
42				
43	*1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination*			
44	*2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)*			

Company Name	EA Networks
For Year Ended	31 March 2020
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

sch ref

8(i): Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
General Supply - [illegible]	General	Standard	[illegible]	[illegible]
General Supply - [illegible]	General	Standard	[illegible]	[illegible]
General Supply - [illegible]	General	Standard	[illegible]	[illegible]
General Supply - [illegible]	General	Standard	[illegible]	[illegible]
General Supply - [illegible]	General	Standard	[illegible]	–
Irrigation	Irrigation	Standard	[illegible]	[illegible]
Irrigation Harmonic Penalty	Irrigation	Standard	[illegible]	[illegible]
Industrial [illegible] Supply - [illegible]	Industrial	Standard	[illegible]	[illegible]
Direct Supply - Day Demand	Industrial	Standard	1	[illegible]
Direct Supply - Peak Demand	Industrial	Standard	4	[illegible]
[illegible]	Large User	Standard	1	[illegible]
Silverfern Farms	Large User	Standard	1	[illegible]
[illegible]	Large User	Standard	1	[illegible]
Highbank Pumps	Large User	Standard	1	[illegible]
Highbank Generation	Generation	Standard	1	–
Montalto Generation	Generation	Standard	1	–
Cleardale Generation	Generation	Standard	1	–
[illegible] Generation	Generation	Standard	1	–
Street Lighting	Street Lighting	Standard	[illegible]	[illegible]
Add extra rows for additional consumer groups or price category codes as necessary				
		Standard consumer totals	19,472	606,862
		Non-standard consumer totals	–	–
		Total for all consumers	19,472	606,862

Billed quantities by price component

Price component	General Supply	Uncontrolled Energy	Controlled Off Peak Energy	Night Boost [illegible]	Night Rate	Under Verandah	Floodlight	Export kWh	Generation Credit	Connected kW
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	per day	per kWh	per kWh	per kWh	per kWh	per day	per day	per kWh	per kWh	per kW/day
General Supply - [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	2	[illegible]	[illegible]	–
General Supply - [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	–	[illegible]	7,487	–
General Supply - [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1	3	[illegible]	–	–
General Supply - [illegible]	[illegible]	[illegible]	[illegible]	–	[illegible]	–	–	[illegible]	[illegible]	–
General Supply - [illegible]	[illegible]	–	–	–	–	–	–	–	–	–
Irrigation	–	[illegible]	–	–	–	–	–	–	–	[illegible]
Irrigation Harmonic Penalty	–	[illegible]	–	–	–	–	–	–	–	[illegible]
Industrial [illegible] Supply - [illegible]	–	–	–	–	–	–	–	–	–	–
Direct Supply - Day Demand	–	–	–	–	–	–	–	–	–	–
Direct Supply - Peak Demand	–	–	–	–	–	–	–	–	–	–
[illegible]	–	–	–	–	–	–	–	–	–	–
Silverfern Farms	–	–	–	–	–	–	–	–	–	–
[illegible]	–	–	–	–	–	–	–	–	–	–
Highbank Pumps	–	–	–	–	–	–	–	–	–	–
Highbank Generation	–	–	–	–	–	–	–	–	–	–
Montalto Generation	–	–	–	–	–	–	–	–	–	–
Cleardale Generation	–	–	–	–	–	–	–	–	–	–
[illegible] Generation	–	–	–	–	–	–	–	–	–	–
Street Lighting	–	–	–	–	–	–	–	–	–	–
Standard consumer totals	17,958	455,995,441	32,820,771	856,326	4,772,360	12	5	324,336	167,858	137,499
Non-standard consumer totals	–	–	–	–	–	–	–	–	–	–
Total for all consumers	17,958	455,995,441	32,820,771	856,326	4,772,360	12	5	324,336	167,858	137,499

Price component	Industrial MD	Industrial Peak MD	Industrial Anytime MD	Industrial Energy	Large User Fixed	Large User MD	Large User Connected kW	Large User Energy	Streetlighting
Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	per kVA per month	per kVA per month	per kVA per month	per kWh	per month	per kVA per month	per kW/day	per kWh	per fitting per day
General Supply - [illegible]	–	–	–	–	–	–	–	–	–
General Supply - [illegible]	–	–	–	–	–	–	–	–	–
General Supply - [illegible]	–	–	–	–	–	–	–	–	–
General Supply - [illegible]	–	–	–	–	–	–	–	–	–
General Supply - [illegible]	–	–	–	–	–	–	–	–	–
Irrigation	–	–	–	–	–	–	–	–	–
Irrigation Harmonic Penalty	–	–	–	–	–	–	–	–	–
Industrial [illegible] Supply - [illegible]	11,577	–	–	[illegible]	–	–	–	–	–
Direct Supply - Day Demand	294	–	–	[illegible]	–	–	–	–	–
Direct Supply - Peak Demand	–	2,043	2,233	[illegible]	–	–	–	–	–
[illegible]	–	–	–	–	1	5,511	–	[illegible]	–
Silverfern Farms	–	–	–	–	1	605	–	[illegible]	–
[illegible]	–	–	–	–	1	1,382	–	[illegible]	–
Highbank Pumps	–	–	–	–	–	–	9,600	[illegible]	–
Highbank Generation	–	–	–	–	1	–	–	[illegible]	–
Montalto Generation	–	–	–	–	1	–	–	[illegible]	–
Cleardale Generation	–	–	–	–	1	–	–	[illegible]	–
[illegible] Generation	–	–	–	–	1	–	–	[illegible]	–
Street Lighting	–	–	–	–	–	–	–	–	2,656
Standard consumer totals	11,871	2,043	2,233	63,917,960	7	7,498	9,600	145,876,626	2,656
Non-standard consumer totals	–	–	–	–	–	–	–	–	–
Total for all consumers	11,871	2,043	2,233	63,917,960	7	7,498	9,600	145,876,626	2,656

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

Company Name	**EA Networks**
For Year Ended	**31 March 2020**
Network / Sub-Network Name	

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

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

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

Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)
General Supply - 23 kVA	General	Standard	$13,871	[illegible]	[illegible]	[illegible]
General Supply - 52 kVA	General	Standard	$3,833	[illegible]	[illegible]	[illegible]
General Supply - [illegible] kVA	General	Standard	$6,314	[illegible]	[illegible]	[illegible]
General Supply - [illegible] kVA	General	Standard	$3,110	[illegible]	[illegible]	[illegible]
General Supply - [illegible]	General	Standard	$9	$9	$9	-
Irrigation	Irrigation	Standard	$24,481	[illegible]	[illegible]	[illegible]
Irrigation Harmonics Penalty	Irrigation	Standard	$239	[illegible]	[illegible]	[illegible]
Industrial [illegible] Supply - [illegible]	Industrial	Standard	$2,072	[illegible]	[illegible]	[illegible]
Direct Supply - Day Demand	Industrial	Standard	$33	[illegible]	[illegible]	[illegible]
Direct Supply - Peak Demand	Industrial	Standard	$387	[illegible]	[illegible]	[illegible]
[illegible]	Large User	Standard	$609	[illegible]	[illegible]	[illegible]
[illegible] Farms	Large User	Standard	$26	[illegible]	[illegible]	[illegible]
[illegible]	Large User	Standard	$217	[illegible]	[illegible]	[illegible]
[illegible] Pumps	Large User	Standard	$832	[illegible]	[illegible]	[illegible]
[illegible] Generation	Generation	Standard	$387	[illegible]	[illegible]	-
[illegible] Generation	Generation	Standard	$42	[illegible]	[illegible]	-
[illegible] Generation	Generation	Standard	$31	[illegible]	[illegible]	-
[illegible] Generation	Generation	Standard	$8	$8	$8	-
Street Lighting	Street Lighting	Standard	$227	[illegible]	[illegible]	[illegible]

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

	Total line charge revenue in disclosure year	Notional revenue foregone	Total distribution line charge revenue	Total transmission line charge revenue
Standard consumer totals	$55,622	$37,857	$37,857	$17,765
Non-standard consumer totals	-	-	-	-
Total for all consumers	$55,622	$37,857	$37,857	$17,765

Line charge revenues ($000) by price component

Price component	General Supply	Uncontrolled Energy	Controlled Off Peak Energy	Night Boost [illegible]	Night Rate	Under veranda	Floodlight	Export kWh	Generation [illegible]	Connected kW	Industrial kVA	Industrial Peak kVA	Industrial Anytime kVA	Industrial Energy	Large User Fixed	Large User kVA	Large User Connected kW	Large User Energy	Streetlighting
Rate (eg, $ per day, $ per kWh, etc.)	per day	per kWh	per kWh	per kWh	per kWh	per day	per day	per kWh	per kWh	per kW day	per kVA per month	per kVA per month	per kVA per month	per kWh	per month	per kVA per month	per kW day	per kWh	per [illegible] per day
General Supply - 23 kVA	[illegible]	[illegible]	[illegible]	[illegible]	-	$1	$1	-	-	-	-	-	-	-	-	-	-	-	-
General Supply - 52 kVA	[illegible]	[illegible]	$41	$2	-	$2	-	-	-	-	-	-	-	-	-	-	-	-	-
General Supply - [illegible] kVA	[illegible]	[illegible]	$31	$2	-	$2	$1	-	-	-	-	-	-	-	-	-	-	-	-
General Supply - [illegible] kVA	$48	[illegible]	$1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Supply - [illegible]	$9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Irrigation	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	-	-
Irrigation Harmonics Penalty	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	-	-
Industrial [illegible] Supply - [illegible]	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	-
Direct Supply - Day Demand	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	-
Direct Supply - Peak Demand	-	-	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	-	-	-	-	-	-
[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	-	-	-
[illegible] Farms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	-	-	-
[illegible]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	[illegible]	-	-	-
[illegible] Pumps	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-
[illegible] Generation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-
[illegible] Generation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-
[illegible] Generation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-	-	-	-
[illegible] Generation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$8	-	-	-	-
Street Lighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]
Standard consumer totals	[illegible]	[illegible]	[illegible]	$15	-	$5	$1	-	-	$24,678	[illegible]	[illegible]	$250	-	$872	$565	[illegible]	-	[illegible]
Non-standard consumer totals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for all consumers	[illegible]	[illegible]	[illegible]	$15	-	$5	$1	-	-	$24,678	[illegible]	[illegible]	$250	-	$872	$565	[illegible]	-	[illegible]

Add extra columns for additional line charge revenues by price component as necessary

Check: OK

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end:

Company Name	**EA Networks**
For Year Ended	**31 March 2020**
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	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
8								
9	All	Overhead Line	Concrete poles / steel structure	No.	2,399	2,358	(41)	4
10	All	Overhead Line	Wood poles	No.	26,174	25,970	(204)	4
11	All	Overhead Line	Other pole types	No.	-	-	-	[Select one]
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	378	388	10	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	[Select one]
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	7	8	1	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	[Select one]
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	[Select one]
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	[Select one]
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	[Select one]
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	[Select one]
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	[Select one]
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	[Select one]
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	[Select one]
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	27	20	(7)	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	[Select one]
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	[Select one]
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	66	70	4	3
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	192	208	16	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	165	165	-	3
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	[Select one]
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	[Select one]
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	32	28	(4)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	192	208	16	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	3	3	-	[Select one]
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	36	40	4	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,954	1,933	(20)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	[Select one]
37	HV	Distribution Line	SWER conductor	km	-	-	-	[Select one]
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	273	281	8	4
39	HV	Distribution Cable	Distribution UG PILC	km	5	5	0	4
40	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	[Select one]
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	27	27	-	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (indoor)	No.	-	-	-	[Select one]
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,707	7,879	172	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	[Select one]
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	491	494	3	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,990	1,245	(3,745)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	2,242	6,143	3,901	3
48	HV	Distribution Transformer	Voltage regulators	No.	2	2	-	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	492	545	53	3
50	LV	LV Line	LV OH Conductor	km	78	68	(10)	4
51	LV	LV Cable	LV UG Cable	km	389	391	2	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	310	306	(4)	4
53	LV	Connections	OH/UG consumer service connections	No.	19,868	19,927	59	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	248	257	9	3
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	3
56	All	Capacitor Banks	Capacitors including controls	No	-	-	-	[Select one]
57	All	Load Control	Centralised plant	Lot	3	3	-	3
58	All	Load Control	Relays	No	381	400	19	2
59	All	Civils	Cable Tunnels	km	-	-	-	[Select one]

Company Name	EA Networks
For Year Ended	31 March 2020
Network / Sub-network Name	

SCHEDULE 9b: ASSET AGE PROFILE

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

sch ref

Disclosure Year (year ended): 31 March 2020

Number of assets at disclosure year end by installation date

#	Voltage	Asset category	Asset class	Units	pre-1940	1940 –1949	1950 –1959	1960 –1969	1970 –1979	1980 –1989	1990 –1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
10	All	Overhead Line	Concrete poles / steel structure	No.	–	4	21	15	273	586	1,266	–	8	9	63	56	13	–	–	–	1	6
11	All	Overhead Line	Wood poles	No.	–	141	774	596	711	3,554	4,599	815	981	1,513	1,146	779	835	580	774	1,044	542	473
12	All	Overhead Line	Other pole types	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	–	–	3	34	85	–	58	104	13	31	–	18	9	9	27	37
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	–	–	–	–	–	3	1	–	–	1	–	–	–	–	–	–	–	–
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	–	–	1	–	5	–	2	–	3	1	2	–	1	1	–	2	–
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	–	–	–	–	–	–	–	7	–	11	2	3	7	–	7	–	8	–
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	–	–	–	–	8	31	6	4	–	5	3	27	6	21	10	18	1	–
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	–	–	–	9	4	47	22	7	5	21	3	3	3	9	7	–	–	–
30	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	13	2	13	2	–	–	–	–	–	–	–	–	–	–	–
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	–	–	–	–	8	31	4	4	–	5	5	27	6	21	17	18	1	–
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	–	–	–	–	–	–	–	1	–	2	–	–	–	–	–
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	1	4	3	5	2	5	–	2	2	–	4	–	–	–	1	–
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	–	1	71	37	93	321	554	57	81	111	63	51	37	51	44	50	49	31
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
38	HV	Distribution Line	SWER conductor	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	–	–	–	–	3	31	27	4	4	5	6	4	4	7	11	6	5	6
40	HV	Distribution Cable	Distribution UG PILC	km	–	–	–	–	4	1	–	–	–	–	–	–	–	–	–	–	–	–
41	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	–	–	–	4	1	5	4	1	3	1	2	1	3	1	–	–	–	–
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	–	15	51	76	322	264	585	66	546	264	587	357	335	324	243	459	595	672
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	–	–	–	2	16	51	46	15	10	8	12	11	6	24	15	31	4	29
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	–	2	16	37	179	181	166	10	33	8	22	27	33	37	27	22	27	24
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	1	3	88	234	509	431	449	172	89	73	182	255	186	255	173	187	363	267
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	–	–	–	5	45	71	102	14	9	7	5	9	9	14	14	14	13	21
51	LV	LV Line	LV OH Conductor	km	–	1	3	3	6	17	29	1	1	1	1	1	1	1	1	0	1	0
52	LV	LV Cable	LV UG Cable	km	–	–	–	5	32	52	34	8	6	8	7	5	9	12	15	12	11	7
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	–	2	1	8	20	45	64	7	6	8	8	5	4	6	7	5	7	6
54	LV	Connections	OH/UG consumer service connections	No.	–	–	–	–	–	–	–	14,319	287	294	296	341	279	221	361	422	467	263
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	–	–	–	–	–	–	–	–	–	2	9	2	1	8	1	6	1	–
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
57	All	Capacitor Banks	Capacitors including controls	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
58	All	Load Control	Centralised plant	Lot	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	1	–	–
59	All	Load Control	Relays	No	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
60	All	Civils	Cable Tunnels	km	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

#	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	Items at end of year	No. with default dates	Data accuracy (1–4)
10	19	39	29	41	–	1	1	4	–	1						–	2,318	–	4
11	456	472	406	474	454	457	501	543	553	413						–	25,970	–	4
12	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
13	6	7	9	9	11	12	–	3	–	9						–	388	–	4
14	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
15	–	–	–	1	–	–	–	–	2	–						–	8	–	4
16	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
17	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
18	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
19	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
20	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
21	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
22	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
23	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
24	–	–	–	–	–	–	2	–	–	–						–	20	–	4
25	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
26	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
27	5	–	4	–	–	–	–	10	–	2						–	73	–	3
28	–	5	–	6	8	8	1	37	–	–						–	208	–	4
29	–	9	6	–	–	–	6	9	1	2						–	165	–	3
30	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
31	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
32	–	–	–	–	–	–	–	–	–	–						–	28	–	3
33	–	5	–	6	8	8	1	37	–	–						–	206	–	3
34	–	–	–	–	–	–	–	–	–	–						–	5	–	3
35	–	2	1	2	–	–	–	5	1	3						–	43	–	3
36	23	29	24	27	16	27	12	25	15	17						–	1,933	–	3
37	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
38	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
39	11	13	19	8	15	24	15	18	15	8						–	281	–	3
40	–	–	–	–	–	–	–	–	–	–						–	5	–	3
41	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
42	–	–	–	–	–	–	–	–	–	–						–	27	–	3
43	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
44	507	673	507	238	225	296	272	62	191	91						1,200	8,873	–	2
45	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
46	11	19	20	25	14	12	25	16	10	9						–	494	–	3
47	9	16	33	11	18	47	86	33	56	178	–	–	–	–	–	–	1,245	–	3
48	144	134	219	162	289	295	150	171	63	52	–	–	–	–	–	–	4,143	–	3
49	–	–	–	–	–	–	–	–	–	–						–	2	–	3
50	35	35	26	24	22	11	1	49	17	–						–	545	–	3
51	0	0	0	0	0	0	0	0	0	–						–	68	–	3
52	10	12	12	15	16	11	14	18	16	15						–	391	–	3
53	14	7	8	11	11	8	11	12	8	8						–	306	–	3
54	333	293	330	326	291	283	206	223	222	61						–	19,927	–	[Select one]
55	–	4	8	3	6	9	27	53	90	58						–	257	–	[Select one]
56	–	–	–	–	–	–	–	–	–	–						1	1	–	3
57	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]
58	–	–	–	–	–	–	–	–	–	–						–	3	–	[Select one]
59	–	–	–	–	–	–	–	–	–	–						400	400	–	[Select one]
60	–	–	–	–	–	–	–	–	–	–						–	–	–	[Select one]

Company Name	**EA Networks**
For Year Ended	**31 March 2020**
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		Overhead (km)	Underground (km)	Total circuit length (km)
9				
10	**Circuit length by operating voltage (at year end)**			
11	> 66kV	–	–	–
12	50kV & 66kV	361	4	365
13	33kV	27	4	31
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	1,664	169	1,833
16	6.6kV to 11kV (inclusive—other than SWER)	269	117	386
17	Low voltage (< 1kV)	68	391	459
18	**Total circuit length (for supply)**	2,389	685	3,074
19				
20	Dedicated street lighting circuit length (km)	21	285	306
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–
22				

		Circuit length (km)	(% of total overhead length)
23	**Overhead circuit length by terrain (at year end)**		
24	Urban	96	4%
25	Rural	2,245	94%
26	Remote only	48	2%
27	Rugged only	–	–
28	Remote and rugged	–	–
29	Unallocated overhead lines	–	–
30	**Total overhead length**	2,389	100%
31			

		Circuit length (km)	(% of total circuit length)
32			
33	Length of circuit within 10km of coastline or geothermal areas (where known)	466	15%

		Circuit length (km)	(% of total overhead length)
34			
35	Overhead circuit requiring vegetation management	2,389	100%

Company Name	**EA Networks**
For Year Ended	**31 March 2020**

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	Upper Rakaia on Orion network	13	19
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

26 ** 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	**EA Networks**
For Year Ended	**31 March 2020**
Network / Sub-network Name	

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

*Consumer types defined by EDB**	Number of connections (ICPs)
General	194
Irrigation	-5
Industrial	3
Connections total	192

** include additional rows if needed*

Distributed generation

Number of connections made in year	21	connections
Capacity of distributed generation installed in year	0.17	MVA

9e(ii): System Demand

		Demand at time of maximum coincident demand (MW)	
	Maximum coincident system demand		
	GXP demand	176	
plus	Distributed generation output at HV and above	2	
	Maximum coincident system demand	177	
less	Net transfers to (from) other EDBs at HV and above	(0)	
	Demand on system for supply to consumers' connection points	177	

		Energy (GWh)	
	Electricity volumes carried		
	Electricity supplied from GXPs	553	
less	Electricity exports to GXPs	0	
plus	Electricity supplied from distributed generation	99	
less	Net electricity supplied to (from) other EDBs	(0)	
	Electricity entering system for supply to consumers' connection points	652	
less	Total energy delivered to ICPs	607	
	Electricity losses (loss ratio)	45	6.9%
	Load factor	0.42	

9e(iii): Transformer Capacity

	(MVA)
Distribution transformer capacity (EDB owned)	600
Distribution transformer capacity (Non-EDB owned, estimated)	13
Total distribution transformer capacity	613
Zone substation transformer capacity	400

Company Name	**EA Networks**
For Year Ended	**31 March 2020**
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**

		Number of interruptions
9	**Interruptions by class**	
10	Class A (planned interruptions by Transpower)	–
11	Class B (planned interruptions on the network)	200
12	Class C (unplanned interruptions on the network)	275
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**	475
20		

		≤3Hrs	>3hrs
21	**Interruption restoration**		
22	Class C interruptions restored within	258	17
23			

		SAIFI	SAIDI
24	**SAIFI and SAIDI by class**		
25	Class A (planned interruptions by Transpower)	–	–
26	Class B (planned interruptions on the network)	0.29	96.1
27	Class C (unplanned interruptions on the network)	1.45	95.3
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**	1.74	191.3
35			

		Normalised SAIFI	Normalised SAIDI
36	**Normalised SAIFI and SAIDI**		
37	Classes B & C (interruptions on the network)	1.55	181.6
	ţClasses B & C (Assessed values for Default Price-Quality Path Determination)	1.40	133.6
38	ţ Assessed value are applicable to reliability limits		

		SAIFI reliability limit	SAIDI reliability limit
39	**Quality path normalised reliability limit**		
40	SAIFI and SAIDI limits applicable to disclosure year*	1.61	151.0
41	** not applicable to exempt EDBs*		

Company Name	**EA Networks**
For Year Ended	**31 March 2020**
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	0.09	8.74
Vegetation	0.02	2.68
Adverse weather	0.34	35.12
Adverse environment	0.01	0.41
Third party interference	0.10	6.42
Wildlife	0.07	4.12
Human error	0.07	1.59
Defective equipment	0.33	22.80
Cause unknown	0.42	13.38

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.03	13.52
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.24	77.86
Distribution cables (excluding LV)	0.02	4.67
Distribution other (excluding LV)	-	-

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.39	22.85
Subtransmission cables	-	-
Subtransmission other	-	-
Distribution lines (excluding LV)	0.95	74.71
Distribution cables (excluding LV)	0.04	2.01
Distribution other (excluding LV)	0.08	7.13

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	10	388	2.57
Subtransmission cables	-	8	-
Subtransmission other	-		
Distribution lines (excluding LV)	276	1,933	14.28
Distribution cables (excluding LV)	4	286	1.40
Distribution other (excluding LV)	11		
Total	301		