



**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

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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)
<b>Operational expenditure</b>	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
<b>Expenditure on assets</b>	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)
<b>Total consumer line charge revenue</b>	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%
<b>Total regulatory income</b>	<b>54,683</b>	

**1(v): Reliability**

Interruption rate	15.45	Interruptions per 100 circuit km
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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

	CY-2 31 Mar 18 %	CY-1 31 Mar 19 %	Current Year CY 31 Mar 20 %
<b>2(i): Return on Investment</b>			
<b>ROI – comparable to a post tax WACC</b>			
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%
<b>Mid-point estimate of post tax WACC</b>	5.04%	4.75%	4.27%
25th percentile estimate	4.36%	4.07%	3.59%
75th percentile estimate	5.72%	5.43%	4.95%
<b>ROI – comparable to a vanilla WACC</b>			
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%
<b>WACC rate used to set regulatory price path</b>	7.19%	7.19%	7.19%
<b>Mid-point estimate of vanilla WACC</b>	5.60%	5.26%	4.69%
25th percentile estimate	4.92%	4.58%	4.01%
75th percentile estimate	6.29%	5.94%	5.37%
<b>2(ii): Information Supporting the ROI</b>			
			(\$000)
Total opening RAB value	268,447		
plus Opening deferred tax	(14,143)		
<b>Opening RIV</b>		254,304	
<b>Line charge revenue</b>		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)		
<b>Mid-year net cash outflows</b>		61,950	
<b>Term credit spread differential allowance</b>		–	
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)		
<b>Closing RIV</b>		278,728	
<b>ROI – comparable to a vanilla WACC</b>			6.89%
Leverage (%)			42%
Cost of debt assumption (%)			3.61%
Corporate tax rate (%)			28%
<b>ROI – comparable to a post tax WACC</b>			6.47%

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(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						-
<b>Total</b>	-	-	-	-	-	-

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*

<b>3(i): Regulatory Profit</b>		(\$000)
7	<b>Income</b>	
8	Line charge revenue	55,622
9	<i>plus</i> Gains / (losses) on asset disposals	(1,094)
10	<i>plus</i> Other regulated income (other than gains / (losses) on asset disposals)	156
11		
12	<b>Total regulatory income</b>	<b>54,683</b>
13	<b>Expenses</b>	
14	<i>less</i> Operational expenditure	13,193
15	<i>less</i> Pass-through and recoverable costs excluding financial incentives and wash-ups	17,185
16		
17	<b>Operating surplus / (deficit)</b>	<b>24,305</b>
18	<i>less</i> Total depreciation	9,990
19	<i>plus</i> Total revaluations	6,771
20		
21	<b>Regulatory profit / (loss) before tax</b>	<b>21,085</b>
22	<i>less</i> Term credit spread differential allowance	-
23	<i>less</i> Regulatory tax allowance	2,990
24		
25	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>	<b>18,096</b>
26		
27		
28		
29		
30		
31		
32		
33	<b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b>	(\$000)
34	<b>Pass through costs</b>	
35	Rates	195
36	Commerce Act levies	97
37	Industry levies	97
38	CPP specified pass through costs	11
39	<b>Recoverable costs excluding financial incentives and wash-ups</b>	
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	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>	<b>17,185</b>
47		



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)	
		CY-1	CY
		31 Mar 19	31 Mar 20
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			
56		Previous years' incremental change	Previous years' incremental change adjusted for inflation
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	<b>Net incremental rolling incentive scheme</b>		-
63			
64	<b>Net recoverable costs allowed under incremental rolling incentive scheme</b>		-
65	<b>3(iv): Merger and Acquisition Expenditure</b>		(\$000)
66	Merger and acquisition expenditure		
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	<b>3(v): Other Disclosures</b>		(\$000)
70			
71	Self-insurance allowance		

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.

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 *		RAB	
		(\$000)	(\$000)	(\$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)				
	Assets acquired from a regulated supplier	14,210		14,170	
	Assets acquired from a related party	-		-	
	Assets commissioned	15,817		15,817	
	Assets commissioned		30,027		29,987
less	Asset disposals (other than below)				
	Asset disposals to a regulated supplier	1,095		1,095	
	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.

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

CPI <sub>t</sub>	1,052
CPI <sub>t-4</sub>	1,026
Revaluation rate (%)	2.53%

	Unallocated RAB *		RAB	
	(\$000)	(\$000)	(\$000)	(\$000)
Total opening RAB value	269,263		268,447	
less Opening value of fully depreciated, disposed and lost assets	1,272		1,272	
Total opening RAB value subject to revaluation	267,991		267,176	
<b>Total revaluations</b>		6,791		6,771

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

	Unallocated works under construction		Allocated works under construction	
<b>Works under construction—preceding disclosure year</b>		5,978		5,978
plus Capital expenditure	28,930		28,930	
less Assets commissioned	30,027		29,987	
plus Adjustment resulting from asset allocation			(40)	
<b>Works under construction - current disclosure year</b>		4,881		4,881

Highest rate of capitalised finance applied

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.

sch ref

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

	Unallocated RAB * (\$000)	RAB (\$000)
77 Depreciation - standard	8,474	8,474
78 Depreciation - no standard life assets	1,559	1,516
79 Depreciation - modified life assets		
80 Depreciation - alternative depreciation in accordance with CPP		
81 <b>Total depreciation</b>		
	10,034	9,990

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

((\$000 unless otherwise specified))

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

\* include additional rows if needed

96 **4(vii): Disclosure by Asset Category**

((\$000 unless otherwise specified))

	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
98 <b>Total opening RAB value</b>	12,623	831	23,675	48,655	72,051	59,757	35,267	1,508	14,081	268,447
99 less Total depreciation	448	29	913	1,816	1,722	1,907	1,527	112	1,516	9,990
100 plus Total revaluations	315	21	600	1,217	1,822	1,512	892	36	357	6,771
101 plus Assets commissioned	1,070	2,684	2,887	2,503	4,246	3,525	1,094	393	11,587	29,987
102 less Asset disposals	209	-	-	617	167	65	37	-	-	1,095
103 plus Lost and found assets adjustment	-	-	-	-	-	-	-	-	-	-
104 plus Adjustment resulting from asset allocation	-	-	-	-	-	-	-	0	(1,470)	(1,470)
105 plus Asset category transfers	-	-	(136)	-	-	-	-	136	-	-
106 <b>Total closing RAB value</b>	13,351	3,506	26,112	49,942	76,229	62,822	35,688	1,962	23,038	292,650

**Asset Life**

109 Weighted average remaining asset life	32.6	32.8	32.7	31.3	45.3	36.6	27.4	10.1	19.5	(years)
110 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)

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

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

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

sch ref

		(\$000)	
7	<b>5a(i): Regulatory Tax Allowance</b>		
8	<b>Regulatory profit / (loss) before tax</b>		21,085
9			
10	<i>plus</i> 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	<i>less</i> 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	<b>Regulatory taxable income</b>		10,677
24			
25	<i>less</i> Utilised tax losses		
26	Regulatory net taxable income		10,677
27			
28	Corporate tax rate (%)	28%	
29	<b>Regulatory tax allowance</b>		2,990

\* Workings to be provided in Schedule 14

**5a(ii): Disclosure of Permanent Differences**

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

		(\$000)	
34	<b>5a(iii): Amortisation of Initial Difference in Asset Values</b>		
35			
36	Opening unamortised initial differences in asset values	57,368	
37	<i>less</i> Amortisation of initial differences in asset values	2,125	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired		
39	<i>less</i> 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			

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

**SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE**

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

sch ref

44	<b>5a(iv): Amortisation of Revaluations</b>		(\$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	<b>5a(v): Reconciliation of Tax Losses</b>		(\$000)
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>		(\$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	<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			(\$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

<b>5b(i): Summary—Related Party Transactions</b>		(\$000)	(\$000)
7	<b>Total regulatory income</b>		—
8			
9			
10	<b>Market value of asset disposals</b>		—
11			
12	Service interruptions and emergencies	518	
13	Vegetation management	331	
14	Routine and corrective maintenance and inspection	538	
15	Asset replacement and renewal (opex)	1,265	
16	<b>Network opex</b>		<b>2,653</b>
17	Business support	209	
18	System operations and network support	195	
19	<b>Operational expenditure</b>		<b>3,056</b>
20	Consumer connection	651	
21	System growth	1,126	
22	Asset replacement and renewal (capex)	2,651	
23	Asset relocations	—	
24	Quality of supply	375	
25	Legislative and regulatory	—	
26	Other reliability, safety and environment	337	
27	<b>Expenditure on non-network assets</b>		<b>10,678</b>
28	<b>Expenditure on assets</b>		<b>15,817</b>
29	Cost of financing		—
30	Value of capital contributions		—
31	Value of vested assets		—
32	<b>Capital Expenditure</b>		<b>15,817</b>
33	<b>Total expenditure</b>		<b>18,873</b>
34			
35	<b>Other related party transactions</b>		—

<b>5b(iii): Total Opex and Capex Related Party Transactions</b>			Total value of transactions (\$000)
Name of related party	Nature of opex or capex service provided		
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
<b>Total value of related party transactions</b>			<b>18,873</b>

\* 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

7  
8  
9

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

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

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27

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

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



Company Name **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

		Value allocated (\$000s)			OVABAA allocation increase (\$000s)
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	
7	<b>5d(i): Operating Cost Allocations</b>				
8					
9					
10	<b>Service interruptions and emergencies</b>				
11	Directly attributable		1,164		
12	Not directly attributable				-
13	<b>Total attributable to regulated service</b>		1,164		
14	<b>Vegetation management</b>				
15	Directly attributable		556		
16	Not directly attributable				-
17	<b>Total attributable to regulated service</b>		556		
18	<b>Routine and corrective maintenance and inspection</b>				
19	Directly attributable		1,051		
20	Not directly attributable				-
21	<b>Total attributable to regulated service</b>		1,051		
22	<b>Asset replacement and renewal</b>				
23	Directly attributable		1,508		
24	Not directly attributable				-
25	<b>Total attributable to regulated service</b>		1,508		
26	<b>System operations and network support</b>				
27	Directly attributable		3,775		
28	Not directly attributable				-
29	<b>Total attributable to regulated service</b>		3,775		
30	<b>Business support</b>				
31	Directly attributable		467		
32	Not directly attributable		4,672	619	5,291
33	<b>Total attributable to regulated service</b>		5,139		
34					
35	<b>Operating costs directly attributable</b>		8,521		
36	<b>Operating costs not directly attributable</b>	-	4,672	619	5,291
37	<b>Operational expenditure</b>		13,193		
38					

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

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

		(\$000)
40	<b>Pass through and recoverable costs</b>	
41	<b>Pass through costs</b>	
42	Directly attributable	400
43	Not directly attributable	
44	<b>Total attributable to regulated service</b>	400
45	<b>Recoverable costs</b>	
46	Directly attributable	16,785
47	Not directly attributable	
48	<b>Total attributable to regulated service</b>	16,785

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

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

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

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

\* 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.

sch ref

7 <b>5e(i): Regulated Service Asset Values</b>		Value allocated (\$000s) Electricity distribution services
8		
9		
10	<b>Subtransmission lines</b>	
11	Directly attributable	13,351
12	Not directly attributable	
13	<b>Total attributable to regulated service</b>	13,351
14	<b>Subtransmission cables</b>	
15	Directly attributable	3,506
16	Not directly attributable	
17	<b>Total attributable to regulated service</b>	3,506
18	<b>Zone substations</b>	
19	Directly attributable	26,112
20	Not directly attributable	
21	<b>Total attributable to regulated service</b>	26,112
22	<b>Distribution and LV lines</b>	
23	Directly attributable	49,942
24	Not directly attributable	
25	<b>Total attributable to regulated service</b>	49,942
26	<b>Distribution and LV cables</b>	
27	Directly attributable	76,229
28	Not directly attributable	
29	<b>Total attributable to regulated service</b>	76,229
30	<b>Distribution substations and transformers</b>	
31	Directly attributable	62,822
32	Not directly attributable	
33	<b>Total attributable to regulated service</b>	62,822
34	<b>Distribution switchgear</b>	
35	Directly attributable	35,688
36	Not directly attributable	
37	<b>Total attributable to regulated service</b>	35,688
38	<b>Other network assets</b>	
39	Directly attributable	1,960
40	Not directly attributable	2
41	<b>Total attributable to regulated service</b>	1,962
42	<b>Non-network assets</b>	
43	Directly attributable	16,460
44	Not directly attributable	6,578
45	<b>Total attributable to regulated service</b>	23,038
46		
47	<b>Regulated service asset value directly attributable</b>	286,069
48	<b>Regulated service asset value not directly attributable</b>	6,581
49	<b>Total closing RAB value</b>	292,650
50		

51 <b>5e(ii): Changes in Asset Allocations* †</b>		(\$000)	
		CY-1	Current Year (CY)
52	<b>Change in asset value allocation 1</b>		
53	Asset category		
54	Original allocator or line items		
55	New allocator or line items		
56			
57			
58	Rationale for change		
59			
60			
61			
62	<b>Change in asset value allocation 2</b>		
63	Asset category		
64	Original allocator or line items		
65	New allocator or line items		
66			
67	Rationale for change		
68			
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			
76	Rationale for change		
77			
78			

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

Company Name **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

7	<b>6a(i): Expenditure on Assets</b>		(\$000)	(\$000)
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	<b>Total reliability, safety and environment</b>			<b>2,734</b>
17	<b>Expenditure on network assets</b>			<b>17,451</b>
18	Expenditure on non-network assets			11,985
19				
20	<b>Expenditure on assets</b>			<b>29,436</b>
21	plus Cost of financing			-
22	less Value of capital contributions			506
23	plus Value of vested assets			-
24				
25	<b>Capital expenditure</b>			<b>28,930</b>
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			4,668
29	Research and development			
30	<b>6a(iii): Consumer Connection</b>			
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	<b>Consumer connection expenditure</b>			<b>2,024</b>
39				
40	less Capital contributions funding consumer connection expenditure		463	
41	<b>Consumer connection less capital contributions</b>			<b>1,561</b>
42	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>			
43			System Growth	Asset Replacement and
44			(\$000)	Renewal (\$000)
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	<b>System growth and asset replacement and renewal expenditure</b>		<b>4,443</b>	<b>8,251</b>
53	less Capital contributions funding system growth and asset replacement and renewal			41
54	<b>System growth and asset replacement and renewal less capital contributions</b>		<b>4,443</b>	<b>8,210</b>
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			
65	<b>Asset relocations expenditure</b>			<b>-</b>
66	less Capital contributions funding asset relocations			
67	<b>Asset relocations less capital contributions</b>			<b>-</b>

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

68				
69	<b>6a(vi): Quality of Supply</b>			
70	<i>Project or programme*</i>		(\$000)	(\$000)
71	[2019-2020] SCADA - Distribution Automation Programme		117	
72	[2018-2020] Rural Ring Main Unit Installations		1,238	
73	[2019-2020] ZS - Upgrading 110v DC Supplies		57	
74	[2019-2020] 11kV core network centre		89	
75				
76	<i>* include additional rows if needed</i>			
77	All other projects programmes - quality of supply		154	
78	<b>Quality of supply expenditure</b>			1,655
79	less Capital contributions funding quality of supply			
80	<b>Quality of supply less capital contributions</b>			1,655
81	<b>6a(vii): Legislative and Regulatory</b>			
82	<i>Project or programme*</i>		(\$000)	(\$000)
83				
84				
85				
86				
87				
88	<i>* include additional rows if needed</i>			
89	All other projects or programmes - legislative and regulatory			
90	<b>Legislative and regulatory expenditure</b>			-
91	less Capital contributions funding legislative and regulatory			
92	<b>Legislative and regulatory less capital contributions</b>			-
93	<b>6a(viii): Other Reliability, Safety and Environment</b>			
94	<i>Project or programme*</i>		(\$000)	(\$000)
95	[2019-2020] Distribution Earthing Upgrades		490	
96	[2019-2020] UG Conversion - State Hwy Road Crossing		382	
97				
98				
99				
100	<i>* include additional rows if needed</i>			
101	All other projects or programmes - other reliability, safety and environment		207	
102	<b>Other reliability, safety and environment expenditure</b>			1,079
103	less Capital contributions funding other reliability, safety and environment		2	
104	<b>Other reliability, safety and environment less capital contributions</b>			1,077
105				
106	<b>6a(ix): Non-Network Assets</b>			
107	<b>Routine expenditure</b>			
108	<i>Project or programme*</i>		(\$000)	(\$000)
109	[2019-2020] IT		165	
110	[2019-2020] Plant		97	
111	[2019-2020] Vehicles		188	
112	Photocopier rental lease		102	
113				
114	<i>* include additional rows if needed</i>			
115	All other projects or programmes - routine expenditure			
116	<b>Routine expenditure</b>			552
117	<b>Atypical expenditure</b>			
118	<i>Project or programme*</i>		(\$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	<i>* include additional rows if needed</i>			
125	All other projects or programmes - atypical expenditure		47	
126	<b>Atypical expenditure</b>			11,433
127				
128	<b>Expenditure on non-network assets</b>			11,985

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 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	<b>6b(i): Operational Expenditure</b>		
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	<b>Network opex</b>		4,279
13	System operations and network support	3,775	
14	Business support	5,139	
15	<b>Non-network opex</b>		8,914
16			
17	<b>Operational expenditure</b>		13,193
18	<b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>		
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(i): Revenue		Target (\$000) <sup>1</sup>	Actual (\$000)	% variance
7	Line charge revenue	53,845	55,622	3%
7(ii): Expenditure on Assets		Forecast (\$000) <sup>2</sup>	Actual (\$000)	% variance
9	Consumer connection	3,592	2,024	(44%)
10	System growth	4,921	4,443	(10%)
11	Asset replacement and renewal	8,024	8,251	3%
12	Asset relocations	–	–	–
13	Reliability, safety and environment:			
14	Quality of supply	3,356	1,655	(51%)
15	Legislative and regulatory	–	–	–
16	Other reliability, safety and environment	653	1,079	65%
17	<b>Total reliability, safety and environment</b>	<b>4,009</b>	<b>2,734</b>	<b>(32%)</b>
18	<b>Expenditure on network assets</b>	<b>20,546</b>	<b>17,451</b>	<b>(15%)</b>
19	Expenditure on non-network assets	1,629	11,985	636%
20	Expenditure on assets	22,175	29,436	33%
21				
7(iii): Operational Expenditure				
22	Service interruptions and emergencies	1,113	1,164	5%
23	Vegetation management	493	556	13%
24	Routine and corrective maintenance and inspection	1,430	1,051	(27%)
25	Asset replacement and renewal	1,157	1,508	30%
26	<b>Network opex</b>	<b>4,193</b>	<b>4,279</b>	<b>2%</b>
27	System operations and network support	5,008	3,775	(25%)
28	Business support	5,511	5,139	(7%)
29	<b>Non-network opex</b>	<b>10,519</b>	<b>8,914</b>	<b>(15%)</b>
30	<b>Operational expenditure</b>	<b>14,712</b>	<b>13,193</b>	<b>(10%)</b>
31				
7(iv): Subcomponents of Expenditure on Assets (where known)				
32	Energy efficiency and demand side management, reduction of energy losses	50	–	(100%)
33	Overhead to underground conversion	4,578	4,668	2%
34	Research and development	–	–	–
35				
36				
7(v): Subcomponents of Operational Expenditure (where known)				
37	Energy efficiency and demand side management, reduction of energy losses		21	–
38	Direct billing		–	–
39	Research and development	250	41	(84%)
40	Insurance	182	195	7%
41				
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	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 ICPIs that are included in each consumer group or price category code, and the energy delivered to these ICPIs.

13/1/20

13  
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**8(i): Billed Quantities by Price Component**

**Billed quantities by price component**

Price component

General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 10	Night Rate	Under Weekend	Floodlight	Export kWh	Generation Credit	Connected kW	Industrial MD	Industrial Peak MD	Industrial Anytime MD	Industrial Energy	Large User Flood	Large User MD	Large User Connected kW	Large User Energy	Streetlighting	
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 VVA per month	per kW day	per kWh	per fitting per day	
General Supply - 20 kVA	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
General Supply - 50 kVA	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
General Supply - 100 kVA	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
General Supply - 200 kVA	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
General Supply - 400 kVA & 5 kVA	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Irrigation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Irrigation Automatic Demand	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Industrial 400V Supply - VVA	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
Direct Supply - Day Demand	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
Direct Supply - Peak Demand	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial	Industrial
EMF	Large User	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Water Farm Farms	Large User	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Water On Area	Large User	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Highback Pump	Large User	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Highback Generation	Generation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Minerby Generation	Generation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Charahak Generation	Generation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Levelling Generation	Generation	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Street Lighting	Street Lighting	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Add extra rows for additional consumer groups or price category codes as necessary																			
Standard consumer total		19,472	456,442																
Non-standard consumer total																			
Total for all consumers		19,472	456,442																

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	National revenue foregone from posted discounts (if applicable)	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg. \$ per day, \$ per kWh, etc.)	Line charge revenues (\$000) by price component																		Add extra columns for additional line charge revenues by price component as necessary							
								General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost SD	Night Rate	Under Warrant	Floodlight	Export kWh	Generation Credit	Connected kW	Industrial MD	Industrial Peak MD	Industrial Anytime MD	Industrial Energy	Large User Fixed	Large User MD	Large User Connected kW	Large User Energy		Streetlighting						
								per day	per kWh	per kWh	per kWh	per kWh	per day	per day	per day	per kWh	per kWh	per kWh day	per kVA per month	per kVA per month	per kVA per month	per kWh	per month	per kVA per month	per kWh day	per kWh	per fitting per day						
General Supply - 20 kVA	General	Standard	\$10,873	\$8,350	\$8,291	\$2,587		\$840	\$9,490	\$528	\$13			\$1	\$0																		
General Supply - 50 kVA	General	Standard	\$3,633	\$2,706	\$9,796	\$9,927		\$178	\$3,413	\$41	\$2																						
General Supply - 100 kVA	General	Standard	\$6,344	\$4,640	\$9,640	\$9,770		\$268	\$5,063	\$44	\$8																						
General Supply - 150 kVA	General	Standard	\$5,304	\$3,944	\$8,744	\$8,863		\$81	\$5,008	\$3																							
General Supply - less than 5 kVA	General	Standard	\$9	\$8	\$9	\$9		\$8																									
Integration	Integration	Standard	\$24,441	\$15,955	\$24,441	\$24,441												\$24,441															
Integration Domestic Priority	Integration	Standard	\$238	\$165	\$165	\$165												\$165															
Industrial MDV Supply - VVA	Industrial	Standard	\$2,072	\$1,296	\$1,296	\$1,296													\$2,072														
Direct Supply - Day Demand	Industrial	Standard	\$93	\$53	\$53	\$53													\$93														
Direct Supply - Peak Demand	Industrial	Standard	\$87	\$50	\$50	\$50													\$87														
UMP	Large User	Standard	\$659	\$409	\$409	\$409																	\$659	\$410									
Other Farm Farms	Large User	Standard	\$94	\$58	\$58	\$58																	\$94	\$59									
Mt West Vki Alupa	Large User	Standard	\$217	\$139	\$139	\$139																	\$217	\$140									
Highbank Pump	Large User	Standard	\$87	\$53	\$53	\$53																	\$87	\$54									
Highbank Generation	Generation	Standard	\$387	\$243	\$243	\$243																	\$387	\$244									
Monarals Generation	Generation	Standard	\$40	\$25	\$25	\$25																	\$40	\$26									
Chapelton Generation	Generation	Standard	\$31	\$19	\$19	\$19																	\$31	\$20									
Lusitania Generation	Generation	Standard	\$8	\$5	\$5	\$5																	\$8	\$5									
Street Lighting	Street Lighting	Standard	\$227	\$105	\$105	\$105																	\$227	\$106									
Add extra rows for additional consumer groups or price category codes as necessary																																	
Standard consumer total:			\$55,622	\$37,857	\$37,857	\$37,857		\$1,270	\$24,063	\$583	\$15			\$1	\$1			\$24,679	\$3,125	\$137	\$250		\$872	\$565	\$832			\$227					
Non-standard consumer total:																																	
Total for all consumer:			\$55,622	\$37,857	\$37,857	\$37,857		\$1,270	\$24,063	\$583	\$15			\$1	\$1			\$24,679	\$3,125	\$137	\$250		\$872	\$565	\$832			\$227					

8(iii): Number of ICPs directly billed  
 Number of directly billed ICPs at year end:

Check:  OK

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

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

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	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	<b>Total circuit length (for supply)</b>	<b>2,389</b>	<b>685</b>	<b>3,074</b>
19				
20	Dedicated street lighting circuit length (km)	21	285	306
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–
22				0
23	<b>Overhead circuit length by terrain (at year end)</b>	<b>(% of total circuit length)</b>		
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	<b>Total overhead length</b>	<b>2,389</b>		<b>100%</b>
31				
32		<b>(% of total circuit length)</b>		
33	Length of circuit within 10km of coastline or geothermal areas (where known)	466		15%
34		<b>(% of total overhead length)</b>		
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

8	<b>9e(i): Consumer Connections</b>		
9	Number of ICPs connected in year by consumer type		
10			
11	Consumer types defined by EDB*		<b>Number of connections (ICPs)</b>
12	General		194
13	Irrigation		-5
14	Industrial		3
15			
16			
17	* include additional rows if needed		
18	<b>Connections total</b>		<b>192</b>
19	<b>Distributed generation</b>		
20	Number of connections made in year	21	connections
21	Capacity of distributed generation installed in year	0.17	MVA
22	<b>9e(ii): System Demand</b>		
23			
24			
25	<b>Maximum coincident system demand</b>		<b>Demand at time of maximum coincident demand (MW)</b>
26	GXP demand	176	
27	plus Distributed generation output at HV and above	2	
28	<b>Maximum coincident system demand</b>	<b>177</b>	
29	less Net transfers to (from) other EDBs at HV and above	(0)	
30	<b>Demand on system for supply to consumers' connection points</b>	<b>177</b>	
31	<b>Electricity volumes carried</b>		<b>Energy (GWh)</b>
32	Electricity supplied from GXPs	553	
33	less Electricity exports to GXPs	0	
34	plus Electricity supplied from distributed generation	99	
35	less Net electricity supplied to (from) other EDBs	(0)	
36	<b>Electricity entering system for supply to consumers' connection points</b>	<b>652</b>	
37	less Total energy delivered to ICPs	607	
38	<b>Electricity losses (loss ratio)</b>	<b>45</b>	<b>6.9%</b>
39			
40	<b>Load factor</b>	<b>0.42</b>	
41	<b>9e(iii): Transformer Capacity</b>		
42			<b>(MVA)</b>
43	Distribution transformer capacity (EDB owned)	600	
44	Distribution transformer capacity (Non-EDB owned, estimated)	13	
45	<b>Total distribution transformer capacity</b>	<b>613</b>	
46			
47	<b>Zone substation transformer capacity</b>	<b>400</b>	

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	<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)	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	<b>Total</b>	<b>475</b>	
20			
21	<b>Interruption restoration</b>	<b>≤3Hrs</b>	<b>&gt;3hrs</b>
22	Class C interruptions restored within	258	17
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)	0.29	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	<b>Total</b>	<b>1.74</b>	<b>191.3</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)	1.55	181.6
38	‡Classes B & C (Assessed values for Default Price-Quality Path Determination)	1.40	133.6
39	‡ Assessed value are applicable to reliability limits		
40	<b>Quality path normalised reliability limit</b>	<b>SAIFI reliability limit</b>	<b>SAIDI reliability limit</b>
41	SAIFI and SAIDI limits applicable to disclosure year*	1.61	151.0
42	* 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.

42 **10(ii): Class C Interruptions and Duration by Cause**

Cause	SAIFI	SAIDI
45 Lightning	0.09	8.74
46 Vegetation	0.02	2.68
47 Adverse weather	0.34	35.12
48 Adverse environment	0.01	0.41
49 Third party interference	0.10	6.42
50 Wildlife	0.07	4.12
51 Human error	0.07	1.59
52 Defective equipment	0.33	22.80
53 Cause unknown	0.42	13.38

55 **10(iii): Class B Interruptions and Duration by Main Equipment Involved**

Main equipment involved	SAIFI	SAIDI
58 Subtransmission lines	0.03	13.52
59 Subtransmission cables	-	-
60 Subtransmission other	-	-
61 Distribution lines (excluding LV)	0.24	77.86
62 Distribution cables (excluding LV)	0.02	4.67
63 Distribution other (excluding LV)	-	-

64 **10(iv): Class C Interruptions and Duration by Main Equipment Involved**

Main equipment involved	SAIFI	SAIDI
67 Subtransmission lines	0.39	22.85
68 Subtransmission cables	-	-
69 Subtransmission other	-	-
70 Distribution lines (excluding LV)	0.95	74.71
71 Distribution cables (excluding LV)	0.04	2.01
72 Distribution other (excluding LV)	0.08	7.13

73 **10(v): Fault Rate**

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
74 Subtransmission lines	10	388	2.57
75 Subtransmission cables	-	8	-
76 Subtransmission other	-	-	-
77 Distribution lines (excluding LV)	276	1,933	14.28
78 Distribution cables (excluding LV)	4	286	1.40
79 Distribution other (excluding LV)	11	-	-
80 <b>Total</b>	<b>301</b>		