EDB Information Disclosure Requirements
Information Templates
for
Schedules 1–10

Company Name	EA Networks
Disclosure Date	30 August 2017
Disclosure Year (year ended)	31 March 2017

EA Networks is the trading name of Electricity Ashburton Limited

Templates for Schedules 1–10 excluding 5f–5g

Template Version 4.1. Prepared 24 March 2015

Table of Contents

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

SCHEDULE 1: ANALYTICAL RATIOS

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

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

sch ref

7 **1(i): Expenditure metrics**

sch ref		Expenditure per GWh energy delivered to ICPs ($/GWh)	Expenditure per average no. of ICPs ($/ICP)	Expenditure per MW maximum coincident system demand ($/MW)	Expenditure per km circuit length ($/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers ($/MVA)
8						
9	**Operational expenditure**	18,079	536	62,282	3,306	18,258
10	Network	4,959	147	17,083	907	5,008
11	Non-network	13,121	389	45,199	2,399	13,250
12						
13	**Expenditure on assets**	36,659	1,088	126,287	6,703	37,021
	Network	34,434	1,022	118,622	6,296	34,774
15	Non-network	2,225	66	7,666	407	2,247
16						

17 **1(ii): Revenue metrics**

sch ref		Revenue per GWh energy delivered to ICPs ($/GWh)	Revenue per average no. of ICPs ($/ICP)
18			
19	**Total consumer line charge revenue**	72,278	2,144
20	Standard consumer line charge revenue	72,278	2,144
21	Non-standard consumer line charge revenue	–	–
22			

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

sch ref			
24			
25	Demand density	53	*Maximum coincident system demand per km of circuit length (for supply) (kW/km)*
26	Volume density	183	*Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)*
27	Connection point density	6	*Average number of ICPs per km of circuit length (for supply) (ICPs/km)*
28	Energy intensity	29,666	*Total energy delivered to ICPs per average number of ICPs (kWh/ICP)*
29			

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

sch ref		($000)	% of revenue
31			
32	Operational expenditure	10,183	26.15%
33	Pass-through and recoverable costs excluding financial incentives and wash-ups	8,056	20.69%
34	Total depreciation	8,152	20.94%
35	Total revaluations	5,072	13.03%
36	Regulatory tax allowance	2,851	7.32%
37	Regulatory profit/(loss) including financial incentives and wash-ups	14,765	37.92%
38	**Total regulatory income**	38,934	
39			

40 **1(v): Reliability**

sch ref			
41			
42	Interruption rate	14.71	*Interruptions per 100 circuit km*

Company Name	**EA Networks**
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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				
7	**2(i): Return on Investment**	**CY-2**	**CY-1**	**Current Year CY**
8		**31 Mar 15**	**31 Mar 16**	**31 Mar 17**
9	**ROI – comparable to a post tax WACC**	**%**	**%**	**%**
10	Reflecting all revenue earned	5.78%	5.71%	5.86%
11	Excluding revenue earned from financial incentives	5.78%	5.71%	5.86%
12	Excluding revenue earned from financial incentives and wash-ups	5.78%	5.71%	5.91%
13				
	Mid-point estimate of post tax WACC	6.10%	5.37%	4.77%
15	25th percentile estimate	5.39%	4.66%	4.05%
16	75th percentile estimate	6.82%	6.09%	5.48%
17				
18				
19	**ROI – comparable to a vanilla WACC**			
20	Reflecting all revenue earned	6.56%	6.36%	6.41%
21	Excluding revenue earned from financial incentives	6.56%	6.36%	6.41%
22	Excluding revenue earned from financial incentives and wash-ups	6.56%	6.36%	6.45%
23				
24	**WACC rate used to set regulatory price path**	8.77%	7.19%	7.19%
25				
26	**Mid-point estimate of vanilla WACC**	6.89%	6.02%	5.31%
27	25th percentile estimate	6.17%	5.30%	4.59%
28	75th percentile estimate	7.60%	6.74%	6.03%
29				
30	**2(ii): Information Supporting the ROI**		**($000)**	
31				
32	Total opening RAB value	237,258		
33	*plus* Opening deferred tax	(9,405)		
34	**Opening RIV**		227,852	
35				
36	**Line charge revenue**		40,709	
37				
38	Expenses cash outflow	18,239		
39	*add* Assets commissioned	19,679		
40	*less* Asset disposals	2,717		
41	*add* Tax payments	1,282		
42	*less* Other regulated income	(1,775)		
43	**Mid-year net cash outflows**		38,259	
44				
45	**Term credit spread differential allowance**		–	
46				
47	Total closing RAB value	251,141		
48	*less* Adjustment resulting from asset allocation	(0)		
49	*less* Lost and found assets adjustment	–		
50	*plus* Closing deferred tax	(10,975)		
51	**Closing RIV**		240,166	
52				
53	**ROI – comparable to a vanilla WACC**			6.41%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.41%
57	Corporate tax rate (%)			28%
58				
59	**ROI – comparable to a post tax WACC**			5.86%
60				

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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

61 ## 2(iii): Information Supporting the Monthly ROI

sch ref		Value
63	**Opening RIV**	N/A

sch ref		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	April						–
68	May						–
69	June						–
70	July						–
71	August						–
72	September						–
73	October						–
74	November						–
75	December						–
76	January						–
77	February						–
78	March						–
79	**Total**	–	–	–	–	–	–

sch ref		Value
81	**Tax payments**	N/A
83	**Term credit spread differential allowance**	N/A
85	**Closing RIV**	N/A
88	**Monthly ROI – comparable to a vanilla WACC**	N/A
90	**Monthly ROI – comparable to a post tax WACC**	N/A

92 ## 2(iv): Year-End ROI Rates for Comparison Purposes

sch ref		Value
94	**Year-end ROI – comparable to a vanilla WACC**	6.27%
96	**Year-end ROI – comparable to a post tax WACC**	5.73%

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

100 ## 2(v): Financial Incentives and Wash-Ups

sch ref			
102	Net recoverable costs allowed under incremental rolling incentive scheme	–	
103	Purchased assets – avoided transmission charge	–	
104	Energy efficiency and demand incentive allowance	–	
105	Quality incentive adjustment	–	
106	Other financial incentives	–	
107	**Financial incentives**		–
109	**Impact of financial incentives on ROI**		–
111	Input methodology claw-back	–	
112	Recoverable customised price-quality path costs	–	
113	Catastrophic event allowance	–	
114	Capex wash-up adjustment	(137)	
115	Transmission asset wash-up adjustment	–	
116	2013–2015 NPV wash-up allowance	–	
117	Reconsideration event allowance	–	
118	Other wash-ups	–	
119	**Wash-up costs**		(137)
121	**Impact of wash-up costs on ROI**		–0.04%

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

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

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

sch ref

3(i): Regulatory Profit

sch ref			($000)
7		**3(i): Regulatory Profit**	**($000)**
8		**Income**	
9		Line charge revenue	40,709
10	*plus*	Gains / (losses) on asset disposals	(2,524)
11	*plus*	Other regulated income (other than gains / (losses) on asset disposals)	749
12			
13		**Total regulatory income**	38,934
		Expenses	
15	*less*	Operational expenditure	10,183
16			
17	*less*	Pass-through and recoverable costs excluding financial incentives and wash-ups	8,056
18			
19		**Operating surplus / (deficit)**	20,695
20			
21	*less*	Total depreciation	8,152
22			
23	*plus*	Total revaluations	5,072
24			
25		**Regulatory profit / (loss) before tax**	17,616
26			
27	*less*	Term credit spread differential allowance	–
28			
29	*less*	Regulatory tax allowance	2,851
30			
31		**Regulatory profit/(loss) including financial incentives and wash-ups**	14,765
32			

3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups

sch ref		($000)	
33	**3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups**	**($000)**	
34	**Pass through costs**		
35	Rates	172	
36	Commerce Act levies	81	
37	Industry levies	108	
38	CPP specified pass through costs		
39	**Recoverable costs excluding financial incentives and wash-ups**		
40	Electricity lines service charge payable to Transpower	4,990	
41	Transpower new investment contract charges	1,243	
42	System operator services	–	
43	Distributed generation allowance	1,462	
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**		8,056
47			

3(iii): Incremental Rolling Incentive Scheme

sch ref			($000)	
48	**3(iii): Incremental Rolling Incentive Scheme**		**($000)**	
49			**CY-1**	**CY**
50			**31 Mar 16**	**31 Mar 17**
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 12	–	–
58	CY-4	31 Mar 13	–	–
59	CY-3	31 Mar 14	–	–
60	CY-2	31 Mar 15	–	–
61	CY-1	31 Mar 16	–	–
62	**Net incremental rolling incentive scheme**			–
63				
64	**Net recoverable costs allowed under incremental rolling incentive scheme**			–

3(iv): Merger and Acquisition Expenditure

sch ref		
65	**3(iv): Merger and Acquisition Expenditure**	
70		**($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

sch ref		
69	**3(v): Other Disclosures**	
70		**($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 13 ($000)	RAB 31 Mar 14 ($000)	RAB 31 Mar 15 ($000)	RAB 31 Mar 16 ($000)	RAB 31 Mar 17 ($000)
Total opening RAB value	190,501	207,829	220,521	226,349	237,258
less **Total depreciation**	6,655	6,958	7,375	7,616	8,152
plus **Total revaluations**	1,621	3,159	184	1,324	5,072
plus **Assets commissioned**	23,974	19,136	13,834	17,848	19,679
less **Asset disposals**	1,610	1,614	815	647	2,717
plus **Lost and found assets adjustment**	–	–	–	–	–
plus **Adjustment resulting from asset allocation**	(2)	(1,031)	–	(0)	(0)
Total closing RAB value	207,829	220,521	226,349	237,258	251,141

4(ii): Unallocated Regulatory Asset Base

	Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
Total opening RAB value		238,246		237,258
less				
Total depreciation		8,152		8,152
plus				
Total revaluations		5,072		5,072
plus				
Assets commissioned (other than below)	14,311		14,311	
Assets acquired from a regulated supplier				
Assets acquired from a related party	5,369		5,369	
Assets commissioned		19,679		19,679
less				
Asset disposals (other than below)	3,705		2,717	
Asset disposals to a regulated supplier				
Asset disposals to a related party				
Asset disposals		3,705		2,717
plus **Lost and found assets adjustment**		–		–
plus **Adjustment resulting from asset allocation**				(0)
Total closing RAB value		251,141		251,141

** 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.*

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

CPI_4	1,226
CPI_4^{-4}	1,200
Revaluation rate (%)	2.17%

	Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
Total opening RAB value	238,246		237,258	
less Opening value of fully depreciated, disposed and lost assets	4,145		3,154	
Total opening RAB value subject to revaluation	234,100		234,104	
Total revaluations		5,072		5,072

4(iv): Roll Forward of Works Under Construction

	Unallocated works under construction		Allocated works under construction	
Works under construction—preceding disclosure year		2,308		2,308
plus Capital expenditure	19,927		19,927	
less Assets commissioned	19,679		19,679	
plus Adjustment resulting from asset allocation			–	
Works under construction - current disclosure year		2,555		2,555
Highest rate of capitalised finance applied				

4(v): Regulatory Depreciation

	Unallocated RAB * ($000)	($000)	RAB ($000)	($000)
Depreciation - standard	7,062		7,062	
Depreciation - no standard life assets	1,090		1,090	
Depreciation - modified life assets				
Depreciation - alternative depreciation in accordance with CPP				
Total depreciation		8,152		8,152

4(vi): Disclosure of Changes to Depreciation Profiles

($000 unless otherwise specified)

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

4(vii): Disclosure by Asset Category

($000 unless otherwise specified)

	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
Total opening RAB value	12,830	875	17,996	46,626	54,205	54,143	34,382	1,230	14,971	237,258
less Total depreciation	422	28	555	1,618	1,328	1,687	1,239	71	1,205	8,152
plus Total revaluations	276	19	390	984	1,174	1,153	735	27	314	5,072
plus Assets commissioned	601	–	4,627	2,154	6,487	2,909	1,863		1,038	19,679
less Asset disposals	88	–	–	1,192	–	922	442	–	73	2,717
plus Lost and found assets adjustment	–	–	–	–	–	–	–	–	–	–
plus Adjustment resulting from asset allocation	–	–	–	–	–	–	–	–	–	–
plus Asset category transfers	–	–	–	–	–	–	–	(48)	48	–
Total closing RAB value	13,197	866	22,459	46,955	60,538	55,597	35,300	1,138	15,092	251,141
Asset Life										
Weighted average remaining asset life	34.3	35.2	32.1	31.9	44.1	35.9	30.3	11.5	24.4	(years)
Weighted average expected total asset life	45.3	54.8	46.0	46.2	55.0	42.5	38.6	14.2	29.0	(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 2.8.

sch ref					
7	**5a(i): Regulatory Tax Allowance**				**($000)**
8		**Regulatory profit / (loss) before tax**			17,616
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	2,513	*	
12		Amortisation of initial differences in asset values	2,184		
13		Amortisation of revaluations	706		
					5,591
15					
16	*less*	Total revaluations	5,072		
17		Income included in regulatory profit / (loss) before tax but not taxable	–	*	
18		Discretionary discounts and customer rebates	2,782		
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	842	*	
20		Notional deductible interest	4,327		
21					13,024
22					
23		**Regulatory taxable income**			10,183
24					
25	*less*	Utilised tax losses	–		
26		Regulatory net taxable income			10,183
27					
28		Corporate tax rate (%)	28%		
29		**Regulatory tax allowance**			2,851
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	65,581		
37	*less*	Amortisation of initial differences in asset values	2,184		
38	*plus*	Adjustment for unamortised initial differences in assets acquired	–		
39	*less*	Adjustment for unamortised initial differences in assets disposed	1,186		
40		Closing unamortised initial differences in asset values			62,211
41					
42		Opening weighted average remaining useful life of relevant assets (years)			30
43					

Company Name	**EA Networks**
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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 2.8.

sch ref

5a(iv): Amortisation of Revaluations

			($000)
	Opening sum of RAB values without revaluations	224,004	
	Adjusted depreciation	7,446	
	Total depreciation	8,152	
	Amortisation of revaluations		706

5a(v): Reconciliation of Tax Losses

			($000)
	Opening tax losses		
plus	Current period tax losses		
less	Utilised tax losses		
	Closing tax losses		–

5a(vi): Calculation of Deferred Tax Balance

			($000)
	Opening deferred tax	(9,405)	
plus	Tax effect of adjusted depreciation	2,085	
less	Tax effect of tax depreciation	3,078	
plus	Tax effect of other temporary differences*	(3)	
less	Tax effect of amortisation of initial differences in asset values	611	
plus	Deferred tax balance relating to assets acquired in the disclosure year	–	
less	Deferred tax balance relating to assets disposed in the disclosure year	(38)	
plus	Deferred tax cost allocation adjustment	0	
	Closing deferred tax		(10,975)

5a(vii): Disclosure of Temporary Differences

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).

5a(viii): Regulatory Tax Asset Base Roll-Forward

			($000)
	Opening sum of regulatory tax asset values	124,378	
less	Tax depreciation	10,993	
plus	Regulatory tax asset value of assets commissioned	19,679	
less	Regulatory tax asset value of asset disposals	1,035	
plus	Lost and found assets adjustment	–	
plus	Adjustment resulting from asset allocation	–	
plus	Other adjustments to the RAB tax value	–	
	Closing sum of regulatory tax asset values		132,029

Company Name	**EA Networks**
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SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

sch ref		($000)
7	**5b(i): Summary—Related Party Transactions**	
8	Total regulatory income	
9	Operational expenditure	2,781
10	Capital expenditure	5,369
11	Market value of asset disposals	
12	Other related party transactions	

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

sch ref	Name of related party	Related party relationship
15	Ashburton District Council	Significant Shareholder
16	EA Network Fibre	Fibre arm of EA Networks
17	EA Networks Field Services	Contracting arm of EA Networks
20		

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

sch ref	Name of related party	Related party transaction type	Description of transaction	Value of transaction ($000)	Basis for determining value
22					
23	Ashburton District Council	Opex	Rates	195	ID clause 2.3.6(1)(a)
24	Ashburton District Council	Opex	Other services	6	ID clause 2.3.6(1)(a)
25		[Select one]			[Select one]
26	EA Network Fibre	Opex		768	ID clause 2.3.6(1)(f)
27		[Select one]			[Select one]
28	EA Networks Field Services	Opex	Asset replacement and renewal	592	ID clause 2.3.6(1)(b)
29	EA Networks Field Services	Opex	Routine and corrective maintenance and inspection	499	ID clause 2.3.6(1)(b)
30	EA Networks Field Services	Opex	Fault Maintenance	398	ID clause 2.3.6(1)(b)
31	EA Networks Field Services	Opex	Tree Management	212	ID clause 2.3.6(1)(b)
32	EA Networks Field Services	Opex	Non-Network Maintenance	112	ID clause 2.3.6(1)(b)
33	EA Networks Field Services	Capex	Construction of RAB Assets	5,369	IM clause 2.2.11(5)(b)(ii)
38					

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For Year Ended	**31 March 2017**

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

9

sch ref	Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
10										
11										
12										
13										
15										
16							–	–	–	–

17

18 ### 5c(ii): Attribution of Term Credit Spread Differential

19

sch ref			
20	**Gross term credit spread differential**		–
21			
22	Total book value of interest bearing debt		
23	Leverage	44%	
24	Average opening and closing RAB values		
25	**Attribution Rate (%)**		–
26			
27	**Term credit spread differential allowance**		–

Company Name: **EA Networks**
For Year Ended: **31 March 2017**

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

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

sch ref

7 5d(i): Operating Cost Allocations

sch ref		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase ($000s)
8			Value allocated ($000s)			
10	**Service interruptions and emergencies**					
11	Directly attributable		620			
12	Not directly attributable				–	
13	**Total attributable to regulated service**		620			
	Vegetation management					
15	Directly attributable		558			
16	Not directly attributable				–	
17	**Total attributable to regulated service**		558			
18	**Routine and corrective maintenance and inspection**					
19	Directly attributable		828			
20	Not directly attributable				–	
21	**Total attributable to regulated service**		828			
22	**Asset replacement and renewal**					
23	Directly attributable		787			
24	Not directly attributable				–	
25	**Total attributable to regulated service**		787			
26	**System operations and network support**					
27	Directly attributable		3,235			
28	Not directly attributable				–	
29	**Total attributable to regulated service**		3,235			
30	**Business support**					
31	Directly attributable		4,155			
32	Not directly attributable				–	
33	**Total attributable to regulated service**		4,155			
34						
35	**Operating costs directly attributable**		10,183			
36	**Operating costs not directly attributable**	–	–	–	–	–
37	**Operational expenditure**		10,183			
38						

39 5d(ii): Other Cost Allocations

sch ref		($000)
40	**Pass through and recoverable costs**	
41	**Pass through costs**	
42	Directly attributable	361
43	Not directly attributable	
44	**Total attributable to regulated service**	361
45	**Recoverable costs**	
46	Directly attributable	7,695
47	Not directly attributable	
48	**Total attributable to regulated service**	7,695
49		

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

sch ref				($000) CY-1	Current Year (CY)
52	**Change in cost allocation 1**				
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				
58					
59					
61	**Change in cost allocation 2**				
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				
67					
68					
70	**Change in cost allocation 3**				
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				
76					
77					

78 ** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.*

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

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 5e(i): Regulated Service Asset Values

sch ref		Value allocated ($000s) Electricity distribution services
8		
9		
10	**Subtransmission lines**	
11	Directly attributable	13,197
12	Not directly attributable	
13	**Total attributable to regulated service**	13,197
	Subtransmission cables	
15	Directly attributable	866
16	Not directly attributable	
17	**Total attributable to regulated service**	866
18	**Zone substations**	
19	Directly attributable	22,459
20	Not directly attributable	
21	**Total attributable to regulated service**	22,459
22	**Distribution and LV lines**	
23	Directly attributable	46,954
24	Not directly attributable	
25	**Total attributable to regulated service**	46,954
26	**Distribution and LV cables**	
27	Directly attributable	60,538
28	Not directly attributable	
29	**Total attributable to regulated service**	60,538
30	**Distribution substations and transformers**	
31	Directly attributable	55,597
32	Not directly attributable	
33	**Total attributable to regulated service**	55,597
34	**Distribution switchgear**	
35	Directly attributable	35,300
36	Not directly attributable	
37	**Total attributable to regulated service**	35,300
38	**Other network assets**	
39	Directly attributable	1,138
40	Not directly attributable	
41	**Total attributable to regulated service**	1,138
42	**Non-network assets**	
43	Directly attributable	15,092
44	Not directly attributable	
45	**Total attributable to regulated service**	15,092
46		
47	**Regulated service asset value directly attributable**	251,141
48	**Regulated service asset value not directly attributable**	–
49	**Total closing RAB value**	251,141
50		

51 5e(ii): Changes in Asset Allocations* †

sch ref				($000) CY-1	($000) Current Year (CY)
52					
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	–	–
57					
58	Rationale for change				
59					
60					
61					
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	–	–
66					
67	Rationale for change				
68					
69					
70					
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	–	–
75					
76	Rationale for change				
77					
78					

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

Company Name **EA Networks**

For Year Ended **31 March 2017**

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**		($000)	($000)
8		Consumer connection		2,229
9		System growth		4,826
10		Asset replacement and renewal		5,563
11		Asset relocations		41
12		Reliability, safety and environment:		
13		Quality of supply	6,649	
		Legislative and regulatory	72	
15		Other reliability, safety and environment	14	
16		**Total reliability, safety and environment**		6,735
17		**Expenditure on network assets**		19,395
18		Expenditure on non-network assets		1,253
19				
20		**Expenditure on assets**		20,648
21	*plus*	Cost of financing		
22	*less*	Value of capital contributions		721
23	*plus*	Value of vested assets		
24				
25		**Capital expenditure**		19,927

			($000)
26	**6a(ii): Subcomponents of Expenditure on Assets (where known)**		($000)
27		Energy efficiency and demand side management, reduction of energy losses	
28		Overhead to underground conversion	3,564
29		Research and development	

			($000)	($000)
30	**6a(iii): Consumer Connection**			
31		*Consumer types defined by EDB**	($000)	($000)
32		Capacity change	284	
33		Large connection	103	
34		Rural no transformer	265	
		Rural with transformer	965	
		Safety	302	
		Urban LV	245	
35		Other	64	
36				
37				
38		**Consumer connection expenditure**		2,229
39				
40	*less*	Capital contributions funding consumer connection expenditure	375	
41		**Consumer connection less capital contributions**		1,855

			System Growth ($000)	Asset Replacement and Renewal ($000)
42	**6a(iv): System Growth and Asset Replacement and Renewal**			
43				
44				
45		Subtransmission	–	492
46		Zone substations	3,114	47
47		Distribution and LV lines	323	1,035
48		Distribution and LV cables	217	3,426
49		Distribution substations and transformers	1,162	561
50		Distribution switchgear	–	–
51		Other network assets	10	0
52		**System growth and asset replacement and renewal expenditure**	4,826	5,563
53	*less*	Capital contributions funding system growth and asset replacement and renewal	10	315
54		**System growth and asset replacement and renewal less capital contributions**	4,817	5,247
55				

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

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				
56	**6a(v): Asset Relocations**			
57		*Project or programme**	**($000)**	**($000)**
58		[2016-2017] NZTA streetlights	6	
59		[2016-2017] unplanned relocation line requested by customer	32	
60		[2016-2017] relocate Switch Frisby/Rangitata project not in AMP	4	
61				
62				
63				
64		All other projects or programmes - asset relocations		
65		**Asset relocations expenditure**		41
66	*less*	Capital contributions funding asset relocations	22	
67		**Asset relocations less capital contributions**		20
68				
69	**6a(vi): Quality of Supply**			
70		*Project or programme**	**($000)**	**($000)**
71		[2016-2017] 11-22kV Conversion Programme	182	
71		[2016-2017] Urban Underground Conversion Programme	270	
71		[2016-2017] Ashburton 11kV Core Network Programme	304	
71		[2016-2017] Rural Ring Main Unit Programme	1,372	
71		[2016-2017] [342] ZSS CRW - 2nd 66/22kV Transformer	2,702	
71		[2016-2017] [351] ZSS HTH - 22kV Switchboard Extension	396	
71		[2016-2017] [358] ZSS TIN - 22/11 Transformer and Switchboards	67	
71		125 Protection Relay Upgrade - Stage 1 (Feeder) 70	12	
71		[2016-2017] [207] 22kV OH New - Gibsons & Smalls Rd - Underbuild	4	
71		[2016-2017] 22kV OH New - Hepburns Rd	59	
71		[2016-2017] [234] 22kV OH New - Winslow Westerfield Rd O/H Fill-in	129	
71		[2016-2017] [10679] 22kV OH New - Rawles Crossing Road - Timaru Track	1	
71		[2016-2017] [209] 66kV OH New - From FTN66 to Pole 84423 along Cpny Rd	152	
71		[2016-2017] [391] 11kV UG New - Mt Somers Back-feed	45	
71		[2016-2017] [537] 22kV UG New - New Carew ZSS Feeders	15	
71		[2016-2017] [536] 22kV UG New - New Hackthorne ZSS Feeders	22	
71		[10080] [2014] Methven 10MVA 11/22kV Transformer	30	
72		[2015-2016] TIN New 66kV ZSS - Structural/Electrical	767	
73		[2016-2017] [10955] ZSS TIN - New 66kV Switching Station - Civil Works	13	
74		[2013-2014) 10032 Methven Highway underground	29	
		[2016-2017]Urban undergrounding programme	70	
75				
76				
77		All other projects programmes - quality of supply	9	
78		**Quality of supply expenditure**		6,649
79	*less*	Capital contributions funding quality of supply		
80		**Quality of supply less capital contributions**		6,649

Company Name **EA Networks**
For Year Ended **31 March 2017**

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				
81		**6a(vii): Legislative and Regulatory**		
82		*Project or programme**	**($000)**	**($000)**
83				
84				
85				
86				
87				
88				
89		All other projects or programmes - legislative and regulatory	72	
90		**Legislative and regulatory expenditure**		72
91	*less*	Capital contributions funding legislative and regulatory		
92		**Legislative and regulatory less capital contributions**		72
93		**6a(viii): Other Reliability, Safety and Environment**		
94		*Project or programme**	**($000)**	**($000)**
95		[380&381] ZSS CRW and HTH - Substation Gate	13	
96				
97				
98				
99				
100				
101		All other projects or programmes - other reliability, safety and environment	1	
102		**Other reliability, safety and environment expenditure**		14
103	*less*	Capital contributions funding other reliability, safety and environment		
104		**Other reliability, safety and environment less capital contributions**		14
105				
106		**6a(ix): Non-Network Assets**		
107		**Routine expenditure**		
108		*Project or programme**	**($000)**	**($000)**
109		[2016-2017][1030] Routine Vehicles	77	
111		[2016-2017][540] Corporate Vehicle	56	
112		[2016-2017][540] Routine Building	63	
		[2016-2017][550] small IT items and office equipment	88	
113			–	
114				
115		All other projects or programmes - routine expenditure	3	
116		**Routine expenditure**		287
117		**Atypical expenditure**		
118		*Project or programme**	**($000)**	**($000)**
119		[2016-2017][10915] ZSS MVN-Backup control room	16	
		[2016-2017][541] ICP Management	226	
		[2016-2017][10982 Document Management System	43	
		[2016-2017][448] EV Charging Solution	160	
120		[2016-2017][548] Asset Management System	408	
121		[2016-2017][543] Data Warehouse	3	
122		[2016-2017][547] Core and storage switches	105	
123				
124				
125		All other projects or programmes - atypical expenditure	5	
126		**Atypical expenditure**		967
127				
128		**Expenditure on non-network assets**		1,253

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

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			
7	**6b(i): Operational Expenditure**	**($000)**	**($000)**
8	Service interruptions and emergencies	620	
9	Vegetation management	558	
10	Routine and corrective maintenance and inspection	828	
11	Asset replacement and renewal	787	
12	**Network opex**		2,793
13	System operations and network support	3,235	
	Business support	4,155	
15	**Non-network opex**		7,390
16			
17	**Operational expenditure**		10,183
18	**6b(ii): Subcomponents of Operational Expenditure (where known)**		
19	Energy efficiency and demand side management, reduction of energy losses		22
20	Direct billing*		–
21	Research and development		–
22	Insurance		135
23	** Direct billing expenditure by suppliers that directly bill the majority of their consumers*		

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

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	42,605	40,709	(4%)
9	**7(ii): Expenditure on Assets**	**Forecast ($000) [2]**	**Actual ($000)**	**% variance**
10	Consumer connection	3,088	2,229	(28%)
11	System growth	6,260	4,826	(23%)
12	Asset replacement and renewal	7,070	5,563	(21%)
13	Asset relocations	–	41	–
	Reliability, safety and environment:			
15	Quality of supply	5,103	6,649	30%
16	Legislative and regulatory	37	72	93%
17	Other reliability, safety and environment	18	14	(22%)
18	**Total reliability, safety and environment**	5,158	6,735	31%
19	**Expenditure on network assets**	21,576	19,395	(10%)
20	Expenditure on non-network assets	1,838	1,253	(32%)
21	Expenditure on assets	23,414	20,648	(12%)
22	**7(iii): Operational Expenditure**			
23	Service interruptions and emergencies	1,067	620	(42%)
24	Vegetation management	325	558	72%
25	Routine and corrective maintenance and inspection	549	828	51%
26	Asset replacement and renewal	936	787	(16%)
27	**Network opex**	2,877	2,793	(3%)
28	System operations and network support	3,660	3,235	(12%)
29	Business support	3,775	4,155	10%
30	**Non-network opex**	7,435	7,390	(1%)
31	**Operational expenditure**	10,312	10,183	(1%)
32	**7(iv): Subcomponents of Expenditure on Assets (where known)**			
33	Energy efficiency and demand side management, reduction of energy losses	–	–	–
34	Overhead to underground conversion	6,257	3,564	(43%)
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		22	–
39	Direct billing		–	–
40	Research and development		–	–
41	Insurance	21	135	543%
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 2017**
Network / Sub-Network Name	**Total Network**

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

9

10

11 **Billed quantities by price component**

sch ref	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	delivered to ICPs in disclosure year (MWh)	Price component: General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 10	Night Rate	Under Verandah	Floodlight
12–13					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
15	General Supply - 20 kVA	General	Standard	14,828	119,574	14,896	84,980,648	28,967,347	805,553	4,607,270	38	2
16	General Supply - 50 kVA	General	Standard	1,564	35,907	1,563	32,723,653	2,329,457	101,116	724,635	3	3
17	General Supply - 100 kVA	General	Standard	641	53,929	644	52,787,197	794,581	91,180	254,294	1	4
18	General Supply - 150 kVA	General	Standard	258	39,590	261	39,017,537	366,263	–	123,274	–	–
19	General Supply - less than 5 kVA	General	Standard	44	0	43	12	–	–	–	–	–
20	Irrigation	Irrigation	Standard	1,592	209,149	–	209,149,701	–	–	–	–	–
21	Industrial 400V Supply - kVA	Industrial	Standard	38	49,719	–	–	–	–	–	–	–
22	Direct Supply - Day Demand	Industrial	Standard	1	1,250	–	–	–	–	–	–	–
23	Direct Supply - Peak Demand	Industrial	Standard	4	2,203	–	–	–	–	–	–	–
	CMP	Large User	Standard	1	34,695	–	–	–	–	–	–	–
	Silver Fern Farms	Large User	Standard	1	7,766	–	–	–	–	–	–	–
	Mt Hutt Ski Area	Large User	Standard	1	2,321	–	–	–	–	–	–	–
	Highbank Pumps	Large User	Standard	1	5,397	–	–	–	–	–	–	–
	Highbank Generation	Generation	Standard	1	–	–	–	–	–	–	–	–
	Montalto Generation	Generation	Standard	1	–	–	–	–	–	–	–	–
	Cleardale Generation	Generation	Standard	1	–	–	–	–	–	–	–	–
	Lavington Generation	Generation	Standard	1	–	–	–	–	–	–	–	–
24	Street Lighting	Street Lighting	Standard	8	1,735	–	–	–	–	–	–	–
25	*Add extra rows for additional consumer groups or price category codes as necessary*											
26			Standard consumer totals	18,986	563,236	17,407	418,658,747	32,457,647	997,850	5,709,472	43	9
27			Non-standard consumer totals	–	–	–	–	–	–	–	–	–
28			Total for all consumers	18,986	563,236	17,407	418,658,747	32,457,647	997,850	5,709,472	43	9

sch ref	Consumer group name or price category code	Export kWh	Generation Credit	Connected kW	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
12–13	Unit charging basis	per kWh	per kWh	per kW day	per kW	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
15	General Supply - 20 kVA	212,770	87,733	–	–	–	–	–	–	–	–	–	–	–
16	General Supply - 50 kVA	28,136	3,689	–	–	–	–	–	–	–	–	–	–	–
17	General Supply - 100 kVA	1,445	–	–	–	–	–	–	–	–	–	–	–	–
18	General Supply - 150 kVA	83,123	19,560	–	–	–	–	–	–	–	–	–	–	–
19	General Supply - less than 5 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
20	Irrigation	–	–	136,971	(11,399)	–	–	–	–	–	–	–	–	–
21	Industrial 400V Supply - kVA	–	–	–	–	11,108	–	–	49,719,177	–	–	–	–	–
22	Direct Supply - Day Demand	–	–	–	–	245	–	–	1,249,645	–	–	–	–	–
23	Direct Supply - Peak Demand	–	–	–	–	–	671	865	2,203,491	–	–	–	–	–
	CMP	–	–	–	–	–	–	–	–	1	6,286	–	34,694,898	–
	Silver Fern Farms	–	–	–	–	–	–	–	–	1	1,872	–	7,766,485	–
	Mt Hutt Ski Area	–	–	–	–	–	–	–	–	1	1,045	–	2,320,665	–
	Highbank Pumps	–	–	–	–	–	–	–	–	–	–	9,600	5,397,419	–
	Highbank Generation	–	–	–	–	–	–	–	–	386,360	–	–	–	–
	Montalto Generation	–	–	–	–	–	–	–	–	33,740	–	–	–	–
	Cleardale Generation	–	–	–	–	–	–	–	–	30,953	–	–	–	–
	Lavington Generation	–	–	–	–	–	–	–	–	7,970	–	–	–	–
24	Street Lighting	–	–	–	–	–	–	–	–	–	–	–	–	284,793
26	Standard consumer totals	325,473	110,982	136,971	(11,399)	11,352	671	865	53,172,313	459,028	9,202	9,600	50,179,467	284,793
27	Non-standard consumer totals	–	–	–	–	–	–	–	–	–	–	–	–	–
28	Total for all consumers	325,473	110,982	136,971	(11,399)	11,352	671	865	53,172,313	459,028	9,202	9,600	50,179,467	284,793

29

30

31 **8(ii): Line Charge Revenues ($000) by Price Component**

32

33 **Line charge revenues ($000) by price component**

sch ref	Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	charge revenue in disclosure year	revenue foregone from posted discounts (if	Total distribution line charge revenue	Total transmission line charge revenue (if available)	Price component: General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 10	Night Rate	Under Verandah	Floodlight
34–35							Rate (eg, $ per day, $ per kWh, etc.)	per day	per kWh	per kWh	per kWh	per kWh	per day	per day
37	General Supply - 20 kVA	General	Standard	$9,093	–	$7,086	$2,007	$816	$7,755	$504	$14	–	$4	$0
38	General Supply - 50 kVA	General	Standard	$3,200	–	$2,428	$773	$171	$2,986	$41	$2	–	$0	$0
39	General Supply - 100 kVA	General	Standard	$4,971	–	$3,725	$1,246	$141	$4,814	$14	$2	–	$0	$0
40	General Supply - 150 kVA	General	Standard	$3,651	–	$2,730	$921	$86	$3,558	$6	–	–	–	–
41	General Supply - less than 5 kVA	General	Standard	$9	–	$9	$0	$9	$0	–	–	–	–	–
42	Irrigation	Irrigation	Standard	$15,826	–	$14,471	$1,355	–	–	–	–	–	–	–
43	Industrial 400V Supply - kVA	Industrial	Standard	$1,749	–	$1,145	$604	–	–	–	–	–	–	–
44	Direct Supply - Day Demand	Industrial	Standard	$38	–	$25	$13	–	–	–	–	–	–	–
45	Direct Supply - Peak Demand	Industrial	Standard	$124	–	$88	$36	–	–	–	–	–	–	–
	CMP	Large User	Standard	$637	–	$295	$342	–	–	–	–	–	–	–
	Silver Fern Farms	Large User	Standard	$150	–	$48	$102	–	–	–	–	–	–	–
	Mt Hutt Ski Area	Large User	Standard	$195	–	$138	$57	–	–	–	–	–	–	–
	Highbank Pumps	Large User	Standard	$324	–	$229	$95	–	–	–	–	–	–	–
	Highbank Generation	Generation	Standard	$386	–	$386	–	–	–	–	–	–	–	–
	Montalto Generation	Generation	Standard	$34	–	$34	–	–	–	–	–	–	–	–
	Cleardale Generation	Generation	Standard	$31	–	$31	–	–	–	–	–	–	–	–
	Lavington Generation	Generation	Standard	$8	–	$8	–	–	–	–	–	–	–	–
46	Street Lighting	Street Lighting	Standard	$285	–	$285	–	–	–	–	–	–	–	–
47	*Add extra rows for additional consumer groups or price category codes as necessary*													
48			Standard consumer totals	$40,709	–	$33,160	$7,549	$1,222	$19,113	$565	$17	–	$4	$1
49			Non-standard consumer totals	–	–	–	–	–	–	–	–	–	–	–
50			Total for all consumers	$40,709	–	$33,160	$7,549	$1,222	$19,113	$565	$17	–	$4	$1

sch ref	Consumer group name or price category code	Export kWh	Generation Credit	Connected kW	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
34–35	Rate	per kWh	per kWh	per kW day	per kW	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
37	General Supply - 20 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
38	General Supply - 50 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
39	General Supply - 100 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
40	General Supply - 150 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
41	General Supply - less than 5 kVA	–	–	–	–	–	–	–	–	–	–	–	–	–
42	Irrigation	–	–	$16,738	($912)	–	–	–	–	–	–	–	–	–
43	Industrial 400V Supply - kVA	–	–	–	–	$1,749	–	–	–	–	–	–	–	–
44	Direct Supply - Day Demand	–	–	–	–	$38	–	–	–	–	–	–	–	–
45	Direct Supply - Peak Demand	–	–	–	–	–	$42	$82	–	–	–	–	–	–
	CMP	–	–	–	–	–	–	–	–	$243	$394	–	–	–
	Silver Fern Farms	–	–	–	–	–	–	–	–	$33	$117	–	–	–
	Mt Hutt Ski Area	–	–	–	–	–	–	–	–	$129	$65	–	–	–
	Highbank Pumps	–	–	–	–	–	–	–	–	–	–	$324	–	–
	Highbank Generation	–	–	–	–	–	–	–	–	$386	–	–	–	–
	Montalto Generation	–	–	–	–	–	–	–	–	$34	–	–	–	–
	Cleardale Generation	–	–	–	–	–	–	–	–	$31	–	–	–	–
	Lavington Generation	–	–	–	–	–	–	–	–	$8	–	–	–	–
46	Street Lighting	–	–	–	–	–	–	–	–	–	–	–	–	$285
48	Standard consumer totals	–	–	$16,738	($912)	$1,787	$42	$82	–	$864	$576	$324	–	$285
49	Non-standard consumer totals	–	–	–	–	–	–	–	–	–	–	–	–	–
50	Total for all consumers	–	–	$16,738	($912)	$1,787	$42	$82	–	$864	$576	$324	–	$285

51

52 **8(iii): Number of ICPs directly billed**

Check **OK**

53 **Number of directly billed ICPs at year end** –

Company Name	**EA Networks**
For Year Ended	**31 March 2017**
Network / Sub-network Name	**Total Network**

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	**Voltage**	**Asset category**	**Asset class**	**Units**	**Items at start of year (quantity)**	**Items at end of year (quantity)**	**Net change**	**Data accuracy (1–4)**
9	All	Overhead Line	Concrete poles / steel structure	No.	2,539	2,458	(81)	4
10	All	Overhead Line	Wood poles	No.	26,485	26,690	205	4
11	All	Overhead Line	Other pole types	No.	–	–	–	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	390	395	5	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	–	–	–	N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	7	7	–	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	–	–	–	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	–	–	–	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	–	–	–	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	–	–	–	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	–	–	–	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	–	–	–	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	–	–	–	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	–	–	–	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	21	21	–	3
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	–	–	–	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	–	6	6	3
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	48	42	(6)	3
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	131	124	(7)	3
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	22	22	–	3
29	HV	Zone substation switchgear	33kV RMU	No.	–	–	–	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	–	–	–	N/A
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	37	29	(8)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	165	159	(6)	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	–	–	–	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	28	34	6	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,979	2,013	34	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	–	–	–	N/A
37	HV	Distribution Line	SWER conductor	km	–	–	–	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	215	217	2	3
39	HV	Distribution Cable	Distribution UG PILC	km	4	4	0	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	–	–	–	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	25	23	(2)	3
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	–	–	–	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,655	7,618	(37)	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	190	207	17	2
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	412	469	57	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,722	5,280	558	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	2,446	2,090	(356)	3
48	HV	Distribution Transformer	Voltage regulators	No.	3	2	(1)	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	368	384	16	2
50	LV	LV Line	LV OH Conductor	km	98	101	3	3
51	LV	LV Cable	LV UG Cable	km	331	344	13	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	276	270	(6)	3
53	LV	Connections	OH/UG consumer service connections	No.	19,253	19,449	196	2
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	153	153	–	1
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	–	2
56	All	Capacitor Banks	Capacitors including controls	No	–	–	–	N/A
57	All	Load Control	Centralised plant	Lot	3	3	–	3
58	All	Load Control	Relays	No	354	354	–	1
59	All	Civils	Cable Tunnels	km	–	–	–	N/A

Company Name	**EA Networks**
For Year Ended	**31 March 2017**
Network / Sub-network Name	**Total Network**

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

8 **Disclosure Year (year ended)** 31 March 2017

Number of assets at disclosure year end by installation date

9	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	2011	2012	2013	2014	2015	2016	2017	No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1–4)
10	All	Overhead Line	Concrete poles / steel structure	No.	–	3	47	22	260	587	1,303	–	4	9	65	48	9	–	–	–	1	6	18	38	29	9	–	–	–		2,458		4
11	All	Overhead Line	Wood poles	No.	–	237	518	1,027	1,239	4,152	6,630	820	583	1,547	1,145	808	842	585	692	1,045	940	628	491	397	407	477	523	539	418		26,690		4
12	All	Overhead Line	Other pole types	No.																											–		N/A
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	–	–	0	2	11	59	36	0	16	100	41	5	10	7	18	3	13	15	1	9	5	12	12	13	5		395		4
	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km																											–		N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km		–	–	–	–	–	4	1	0	–	1	0	–	0	0	–	–	–	–	–	0	–	1	–	–		7		4
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km																											–		N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km																											–		N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km																											–		N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km																											–		N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km																											–		N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km																											–		N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km																											–		N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km																											–		N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	–	1	2	5	2	–	2	2	2	–	1	1	–	2	–	–	–	–	1	–	–	–	–	–	–		21		3
25	HV	Zone substation Buildings	Zone substations 110kV+	No.																											–		N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.																	3				3						6		N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.								7		15	2	2	7		7		2										42		3
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.				5	7	14	14	3	13	11	32	3	4	8	2	3	1				4						124		3
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.				4	1	4	7		3							3											22		3
30	HV	Zone substation switchgear	33kV RMU	No.																											–		N/A
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.																											–		N/A
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	–	–	–	12	2	11	1	–	1	1	–	–	1	–	–	–	–	–	–	–	–	–	–	–			29		3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.				1	9	31	6	4		5	6	29	7	21	10	18	1			5		6					159		3
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																											–		N/A
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	–	–	1	4	2	5	2	5	–	2	2	–	4	–	–	–	1	–	–	2	3	1	–	–	–	–	34		3
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	–	7	38	48	107	351	582	56	46	121	93	59	56	36	51	64	64	46	36	24	21	29	29	25	20	3	2,013		3
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km																											–		N/A
38	HV	Distribution Line	SWER conductor	km																											–		N/A
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km				1	2	33	28	4	4	5	7	5	4	7	11	5	5	6	11	12	19	7	15	24	3		217		3
40	HV	Distribution Cable	Distribution UG PILC	km					3	1																					4		3
41	HV	Distribution Cable	Distribution Submarine Cable	km																											–		N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.				3	2	7	3		2	2	2		2														23		3
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.																											–		N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.		12	46	67	87	229	510	67	142	257	344	336	311	290	261	446	607	313	311	301	294	240	209	251	187	1,500	7,618		2
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		4	5	14	16	49	39	2	8	6	10	12	10	4	5		5	1	3	6	5	3					207		2
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.				2	19	60	93	15	10	8	9	11	6	28	16	27	6	29	11	19	20	25	18	12	25		469		3
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	1	10	98	441	767	487	629	175	74	47	181	200	125	155	316	103	264	203	52	229	139	110	138	170	166	–	5,280		3
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	–	2	45	63	154	153	192	26	18	29	39	44	74	117	86	85	121	87	99	123	110	64	130	166	50	13	2,090		3
49	HV	Distribution Transformer	Voltage regulators	No.	–	–	–	1	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2		3
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.				6	39	62	105	13	11	5	7	6	6	11	11	8	10	5	19	7	8	15	13	12	5		384		2
51	LV	LV Line	LV OH Conductor	km	–	3	5	19	12	22	29	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0		101		3
52	LV	LV Cable	LV UG Cable	km				6	23	56	76	8	9	4	7	5	8	12	11	9	11	7	18	10	12	15	15	11	12	0	344		3
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		2	3	13	21	42	62	6	6	4	4	4	4	6	7	5	7	6	15	6	8	11	8	9	9		270		3
54	LV	Connections	OH/UG consumer service connections	No.								12,732	242	322	377	382	335	400	469	500	578	339	397	389	401	416	435	423	312		19,449		2
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.																										153	153		1
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	1		2
57	All	Capacitor Banks	Capacitors including controls	No																											–		N/A
58	All	Load Control	Centralised plant	Lot						2										1											3		3
59	All	Load Control	Relays	No																										354	354		1
60	All	Civils	Cable Tunnels	km																											–		N/A

Company Name	**EA Networks**
For Year Ended	**31 March 2017**
Network / Sub-network Name	**Total Network**

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref				
9				
10	**Circuit length by operating voltage (at year end)**	**Overhead (km)**	**Underground (km)**	**Total circuit length (km)**
11	> 66kV			–
12	50kV & 66kV	286	2	288
13	33kV	106	5	111
	SWER (all SWER voltages)			–
15	22kV (other than SWER)	1,312	72	1,384
16	6.6kV to 11kV (inclusive—other than SWER)	704	160	864
17	Low voltage (< 1kV)	101	333	434
18	**Total circuit length (for supply)**	2,509	571	3,080
19				
20	Dedicated street lighting circuit length (km)	32	238	270
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			–
22				

sch ref			
23	**Overhead circuit length by terrain (at year end)**	**Circuit length (km)**	**(% of total overhead length)**
24	Urban	139	6%
25	Rural	2,315	92%
26	Remote only	55	2%
27	Rugged only		–
28	Remote and rugged		–
29	Unallocated overhead lines		–
30	**Total overhead length**	2,509	100%
31			
32		**Circuit length (km)**	**(% of total circuit length)**
33	Length of circuit within 10km of coastline or geothermal areas (where known)	467	15%
34		**Circuit length (km)**	**(% of total overhead length)**
35	Overhead circuit requiring vegetation management	2,509	100%

Company Name	**EA Networks**
For Year Ended	**31 March 2017**

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

sch ref	Location *	Number of ICPs served	Line charge revenue ($000)
8			
9	Upper Rakaia on Orion Network	13	19
10			
11			
12			
13			
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 2017**
Network / Sub-network Name	**Total Network**

SCHEDULE 9e: REPORT ON NETWORK DEMAND

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

sch ref				
8	**9e(i): Consumer Connections**			
9	*Number of ICPs connected in year by consumer type*			
10		*Consumer types defined by EDB**	**Number of connections (ICPs)**	
11		General	173	
12		Irrigation	15	
13		Industrial	(1)	
		Large Generation	–	
15		[EDB consumer type]		
16				
17	**Connections total**		187	
18				
19	**Distributed generation**			
20		Number of connections made in year	26	**connections**
21		Capacity of distributed generation installed in year	0.08	**MVA**
22	**9e(ii): System Demand**			
23				
24				
25	**Maximum coincident system demand**		**Demand at time of maximum coincident demand (MW)**	
26		GXP demand	162	
27	*plus*	Distributed generation output at HV and above	2	
28	**Maximum coincident system demand**		163	
29	*less*	Net transfers to (from) other EDBs at HV and above	(0)	
30	**Demand on system for supply to consumers' connection points**		163	
31	**Electricity volumes carried**		**Energy (GWh)**	
32		Electricity supplied from GXPs	491	
33	*less*	Electricity exports to GXPs	2	
34	*plus*	Electricity supplied from distributed generation	103	
35	*less*	Net electricity supplied to (from) other EDBs	(0)	
36	**Electricity entering system for supply to consumers' connection points**		591	
37	*less*	Total energy delivered to ICPs	563	
38	**Electricity losses (loss ratio)**		28	4.8%
39				
40	**Load factor**		0.41	
41	**9e(iii): Transformer Capacity**			
42			**(MVA)**	
43		Distribution transformer capacity (EDB owned)	558	
44		Distribution transformer capacity (Non-EDB owned, estimated)	13	
45	**Total distribution transformer capacity**		571	
46				
47	**Zone substation transformer capacity**		330	

Company Name	**EA Networks**
For Year Ended	**31 March 2017**
Network / Sub-network Name	**Total Network**

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

sch ref		Number of interruptions
8	**10(i): Interruptions**	
9	**Interruptions by class**	
10	Class A (planned interruptions by Transpower)	–
11	Class B (planned interruptions on the network)	234
12	Class C (unplanned interruptions on the network)	219
13	Class D (unplanned interruptions by Transpower)	–
	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**	453
20		

		≤3Hrs	>3hrs
21	**Interruption restoration**		
22	Class C interruptions restored within	165	54
23			

		SAIFI	SAIDI
24	**SAIFI and SAIDI by class**		
25	Class A (planned interruptions by Transpower)	–	–
26	Class B (planned interruptions on the network)	0.40	110.58
27	Class C (unplanned interruptions on the network)	1.04	76.81
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**	1.44	187.4
35			

		Normalised SAIFI	Normalised SAIDI	
36	**Normalised SAIFI and SAIDI**			
37	Classes B & C (interruptions on the network)	1.44	187.40	per 2012 determination
38	ţ Classes B & C (Assessed values for Default Price-Quality Path Determination) ţ Assessed value are applicable to reliability limits	1.24	132.11	

		SAIFI reliability limit	SAIDI reliability limit
39	**Quality path normalised reliability limit**		
40	SAIFI and SAIDI limits applicable to disclosure year*	1.61	151.04
41	** not applicable to exempt EDBs*		

Company Name	**EA Networks**
For Year Ended	**31 March 2017**
Network / Sub-network Name	**Total Network**

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	0.02	0.29
Vegetation	0.04	4.15
Adverse weather	0.07	9.37
Adverse environment	–	–
Third party interference	0.33	29.25
Wildlife	–	–
Human error	0.13	1.13
Defective equipment	0.36	27.48
Cause unknown	0.09	5.14

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.05	18.08
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.28	74.74
Distribution cables (excluding LV)	0.06	17.77
Distribution other (excluding LV)	–	–

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.21	9.90
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.68	58.53
Distribution cables (excluding LV)	0.14	8.18
Distribution other (excluding LV)	0.01	0.20

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	14.00	392	3.57
Subtransmission cables	–	7	–
Subtransmission other	–		
Distribution lines (excluding LV)	177.00	2,016	8.78
Distribution cables (excluding LV)	3.00	232	1.29
Distribution other (excluding LV)	2.00		
Total	196		