



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

Company Name	<input type="text" value="EA Networks"/>
Disclosure Date	<input type="text" value="30 August 2017"/>
Disclosure Year (year ended)	<input type="text" value="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

Schedule	Schedule name
1	<u>ANALYTICAL RATIOS</u>
2	<u>REPORT ON RETURN ON INVESTMENT</u>
3	<u>REPORT ON REGULATORY PROFIT</u>
4	<u>REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)</u>
5a	<u>REPORT ON REGULATORY TAX ALLOWANCE</u>
5b	<u>REPORT ON RELATED PARTY TRANSACTIONS</u>
5c	<u>REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE</u>
5d	<u>REPORT ON COST ALLOCATIONS</u>
5e	<u>REPORT ON ASSET ALLOCATIONS</u>
6a	<u>REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR</u>
6b	<u>REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR</u>
7	<u>COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE</u>
8	<u>REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES</u>
9a	<u>ASSET REGISTER</u>
9b	<u>ASSET AGE PROFILE</u>
9c	<u>REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES</u>
9d	<u>REPORT ON EMBEDDED NETWORKS</u>
9e	<u>REPORT ON NETWORK DEMAND</u>
10	<u>REPORT ON NETWORK RELIABILITY</u>

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

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

17 1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	72,278	2,144
Standard consumer line charge revenue	72,278	2,144
Non-standard consumer line charge revenue	–	–

23 1(iii): Service intensity measures

Demand density	53	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	183	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	29,666	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

30 1(iv): Composition of regulatory income

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

40 1(v): Reliability

Interruption rate	14.71	Interruptions per 100 circuit km
-------------------	-------	----------------------------------

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

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	CY-1	Current Year CY
	31 Mar 15	31 Mar 16	31 Mar 17
	%	%	%
2(i): Return on Investment			
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	5.78%	5.71%	5.86%
Excluding revenue earned from financial incentives	5.78%	5.71%	5.86%
Excluding revenue earned from financial incentives and wash-ups	5.78%	5.71%	5.91%
Mid-point estimate of post tax WACC			
25th percentile estimate	6.10%	5.37%	4.77%
75th percentile estimate	6.82%	6.09%	5.48%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	6.56%	6.36%	6.41%
Excluding revenue earned from financial incentives	6.56%	6.36%	6.41%
Excluding revenue earned from financial incentives and wash-ups	6.56%	6.36%	6.45%
WACC rate used to set regulatory price path			
	8.77%	7.19%	7.19%
Mid-point estimate of vanilla WACC			
25th percentile estimate	6.89%	6.02%	5.31%
75th percentile estimate	7.60%	6.74%	6.03%
2(ii): Information Supporting the ROI			
			(\$000)
Total opening RAB value	237,258		
plus Opening deferred tax	(9,405)		
Opening RIV		227,852	
Line charge revenue		40,709	
Expenses cash outflow	18,239		
add Assets commissioned	19,679		
less Asset disposals	2,717		
add Tax payments	1,282		
less Other regulated income	(1,775)		
Mid-year net cash outflows		38,259	
Term credit spread differential allowance		–	
Total closing RAB value	251,141		
less Adjustment resulting from asset allocation	(0)		
less Lost and found assets adjustment	–		
plus Closing deferred tax	(10,975)		
Closing RIV		240,166	
ROI – comparable to a vanilla WACC			6.41%
Leverage (%)			44%
Cost of debt assumption (%)			4.41%
Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC			5.86%

Company Name	EA Networks
For Year Ended	31 March 2017

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						
	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
61						N/A
62						
63						
64						
65						
66						
67	April					-
68	May					-
69	June					-
70	July					-
71	August					-
72	September					-
73	October					-
74	November					-
75	December					-
76	January					-
77	February					-
78	March					-
79	Total	-	-	-	-	-
80						
81	Tax payments					N/A
82						
83	Term credit spread differential allowance					N/A
84						
85	Closing RIV					N/A
86						
87						
88	Monthly ROI – comparable to a vanilla WACC					N/A
89						
90	Monthly ROI – comparable to a post tax WACC					N/A
91						
92	2(iv): Year-End ROI Rates for Comparison Purposes					
93						
94	Year-end ROI – comparable to a vanilla WACC					6.27%
95						
96	Year-end ROI – comparable to a post tax WACC					5.73%
97						
98	<i>* 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.</i>					
99						
100	2(v): Financial Incentives and Wash-Ups					
101						
102	Net recoverable costs allowed under incremental rolling incentive scheme				-	
103	Purchased assets – avoided transmission charge				-	
104	Energy efficiency and demand incentive allowance				-	
105	Quality incentive adjustment				-	
106	Other financial incentives				-	
107	Financial incentives					-
108						
109	Impact of financial incentives on ROI					-
110						
111	Input methodology claw-back				-	
112	Recoverable customised price-quality path costs				-	
113	Catastrophic event allowance				-	
114	Capex wash-up adjustment				(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)
120						
121	Impact of wash-up costs on ROI					-0.04%

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

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		(\$000)
7	3(i): Regulatory Profit	
8	Income	
9	Line charge revenue	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
14	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		
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		
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)
49		
50		CY-1 CY
51	Allowed controllable opex	31 Mar 16 31 Mar 17
52	Actual controllable opex	-
53		
54	Incremental change in year	-
55		
56		Previous years' Previous years'
57	CY-5 31 Mar 12	incremental incremental
58	CY-4 31 Mar 13	change change adjusted
59	CY-3 31 Mar 14	for inflation
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	-
65	3(iv): Merger and Acquisition Expenditure	(\$000)
66	Merger and acquisition expenditure	-
67		
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>	
69	3(v): Other Disclosures	(\$000)
70	Self-insurance allowance	-
71		

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

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

	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)
4(i): Regulatory Asset Base Value (Rolled Forward)						
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	13,824	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

	Unallocated RAB *	RAB
	(\$000)	(\$000)
4(ii): Unallocated Regulatory Asset Base		
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	5,369	5,369
Assets acquired from a related party	-	-
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.

	Unallocated RAB *	RAB
	(\$000)	(\$000)
4(iii): Calculation of Revaluation Rate and Revaluation of Assets		
CPI _t		1.226
CPI _{t-4}		1.200
Revaluation rate (%)		2.17%
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

	Unallocated works under construction	Allocated works under construction
4(iv): Roll Forward of 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		

	Unallocated RAB *	RAB
	(\$000)	(\$000)
4(v): Regulatory Depreciation		
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

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

	(\$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
4(vii): Disclosure by Asset Category										
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	39	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)

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

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

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		17,616
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	2,513	*
12	Amortisation of initial differences in asset values	2,184	
13	Amortisation of revaluations	706	
			5,591
15			
16	<i>less</i> 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	<i>less</i> Utilised tax losses	-	
26	Regulatory net taxable income		10,183
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		2,851
30			

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

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

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

(\$000)

34			
35			
36	Opening unamortised initial differences in asset values	65,581	
37	<i>less</i> Amortisation of initial differences in asset values	2,184	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired	-	
39	<i>less</i> 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**
 For Year Ended **31 March 2017**

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

44	5a(iv): Amortisation of Revaluations			(\$000)
45				
46	Opening sum of RAB values without revaluations		224,004	
47				
48	Adjusted depreciation		7,446	
49	Total depreciation		8,152	
50	Amortisation of revaluations			706
51				
52	5a(v): Reconciliation of Tax Losses			(\$000)
53				
54	Opening tax losses			
55	plus Current period tax losses			
56	less Utilised tax losses			
57	Closing tax losses			-
58	5a(vi): Calculation of Deferred Tax Balance			(\$000)
59				
60	Opening deferred tax		(9,405)	
61				
62	plus Tax effect of adjusted depreciation		2,085	
63				
64	less Tax effect of tax depreciation		3,078	
65				
66	plus Tax effect of other temporary differences*		(3)	
67				
68	less Tax effect of amortisation of initial differences in asset values		611	
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		(38)	
73				
74	plus Deferred tax cost allocation adjustment		0	
75				
76	Closing deferred tax			(10,975)
77				
78	5a(vii): Disclosure of Temporary Differences			
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>			
80				
81	5a(viii): Regulatory Tax Asset Base Roll-Forward			(\$000)
82				
83	Opening sum of regulatory tax asset values		124,378	
84	less Tax depreciation		10,993	
85	plus Regulatory tax asset value of assets commissioned		19,679	
86	less Regulatory tax asset value of asset disposals		1,035	
87	plus Lost and found assets adjustment		-	
88	plus Adjustment resulting from asset allocation		-	
89	plus Other adjustments to the RAB tax value		-	
90	Closing sum of regulatory tax asset values			132,029

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

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

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

sch ref

5b(i): Summary—Related Party Transactions

(\$000)

Total regulatory income	
Operational expenditure	2,781
Capital expenditure	5,369
Market value of asset disposals	
Other related party transactions	

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

Name of related party	Related party relationship
Ashburton District Council	Significant Shareholder
EA Network Fibre	Fibre arm of EA Networks
EA Networks Field Services	Contracting arm of EA Networks

5b(iii): Related Party Transactions

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

Company Name **EA Networks**
 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
9
10
11
12
13
15
16
17
18
19
20
21
22
23
24
25
26
27

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

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

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

Gross term credit spread differential	-
Total book value of interest bearing debt	
Leverage	44%
Average opening and closing RAB values	
Attribution Rate (%)	-
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

		Value allocated (\$000s)				
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
5d(i): Operating Cost Allocations						
Service interruptions and emergencies						
	Directly attributable		620			
	Not directly attributable					
	Total attributable to regulated service		620			
Vegetation management						
	Directly attributable		558			
	Not directly attributable					
	Total attributable to regulated service		558			
Routine and corrective maintenance and inspection						
	Directly attributable		828			
	Not directly attributable					
	Total attributable to regulated service		828			
Asset replacement and renewal						
	Directly attributable		787			
	Not directly attributable					
	Total attributable to regulated service		787			
System operations and network support						
	Directly attributable		3,235			
	Not directly attributable					
	Total attributable to regulated service		3,235			
Business support						
	Directly attributable		4,155			
	Not directly attributable					
	Total attributable to regulated service		4,155			
	Operating costs directly attributable		10,183			
	Operating costs not directly attributable					
	Operational expenditure		10,183			

		(\$000)
5d(ii): Other Cost Allocations		
Pass through and recoverable costs		
Pass through costs		
	Directly attributable	361
	Not directly attributable	
	Total attributable to regulated service	361
Recoverable costs		
	Directly attributable	7,695
	Not directly attributable	
	Total attributable to regulated service	7,695

		(\$000)	
		CY-1	Current Year (CY)
5d(iii): Changes in Cost Allocations* †			
Change in cost allocation 1			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			
Change in cost allocation 2			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			
Change in cost allocation 3			
Cost category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			

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

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		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
14		
15	Subtransmission cables	
16	Directly attributable	866
17	Not directly attributable	
18	Total attributable to regulated service	866
19		
20	Zone substations	
21	Directly attributable	22,459
22	Not directly attributable	
23	Total attributable to regulated service	22,459
24		
25	Distribution and LV lines	
26	Directly attributable	46,954
27	Not directly attributable	
28	Total attributable to regulated service	46,954
29		
30	Distribution and LV cables	
31	Directly attributable	60,538
32	Not directly attributable	
33	Total attributable to regulated service	60,538
34		
35	Distribution substations and transformers	
36	Directly attributable	55,597
37	Not directly attributable	
38	Total attributable to regulated service	55,597
39		
40	Distribution switchgear	
41	Directly attributable	35,300
42	Not directly attributable	
43	Total attributable to regulated service	35,300
44		
45	Other network assets	
46	Directly attributable	1,138
47	Not directly attributable	
48	Total attributable to regulated service	1,138
49		
50	Non-network assets	
51	Directly attributable	15,092
52	Not directly attributable	
53	Total attributable to regulated service	15,092
54		
55	Regulated service asset value directly attributable	251,141
56	Regulated service asset value not directly attributable	-
57	Total closing RAB value	251,141

51 5e(ii): Changes in Asset Allocations* †		(\$000)	
		CY-1	Current Year (CY)
52	Change in asset value allocation 1		
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	Change in asset value allocation 2		
63	Asset category		
64	Original allocator or line items		
65	New allocator or line items		
66			
67	Rationale for change		
68			
69			
70			
71	Change in asset value allocation 3		
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.

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)
6a(i): Expenditure on Assets		
Consumer connection		2,229
System growth		4,826
Asset replacement and renewal		5,563
Asset relocations		41
Reliability, safety and environment:		
Quality of supply	6,649	
Legislative and regulatory	72	
Other reliability, safety and environment	14	
Total reliability, safety and environment		6,735
Expenditure on network assets		19,395
Expenditure on non-network assets		1,253
Expenditure on assets		20,648
plus Cost of financing		
less Value of capital contributions		721
plus Value of vested assets		
Capital expenditure		19,927
6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
Energy efficiency and demand side management, reduction of energy losses		
Overhead to underground conversion		3,564
Research and development		
6a(iii): Consumer Connection		
<i>Consumer types defined by EDB*</i>		
Capacity change	284	
Large connection	103	
Rural no transformer	265	
Rural with transformer	965	
Safety	302	
Urban LV	245	
Other	64	
Consumer connection expenditure		2,229
less Capital contributions funding consumer connection expenditure	375	
Consumer connection less capital contributions		1,855
6a(iv): System Growth and Asset Replacement and Renewal		
	System Growth (\$000)	Asset Replacement and Renewal (\$000)
Subtransmission	–	492
Zone substations	3,114	47
Distribution and LV lines	323	1,035
Distribution and LV cables	217	3,426
Distribution substations and transformers	1,162	561
Distribution switchgear	–	–
Other network assets	10	0
System growth and asset replacement and renewal expenditure	4,826	5,563
less Capital contributions funding system growth and asset replacement and renewal	10	315
System growth and asset replacement and renewal less capital contributions	4,817	5,247

Company Name
For Year Ended

EA Networks
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

6a(v): Asset Relocations		(\$000)	(\$000)
	<i>Project or programme*</i>		
56	[2016-2017] NZTA streetlights	6	
57	[2016-2017] unplanned relocation line requested by customer	32	
58	[2016-2017] relocate Switch Frisby/Rangitata project not in AMP	4	
59			
60			
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			

6a(vi): Quality of Supply		(\$000)	(\$000)
	<i>Project or programme*</i>		
69	[2016-2017] 11-22kV Conversion Programme	182	
70	[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 Cpony 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

		(\$000)	(\$000)
81	6a(vii): Legislative and Regulatory		
82	Project or programme*		
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*		
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*		
109	[2016-2017][1030] Routine Vehicles	77	
111	[2016-2017][540] Corporate Vehicle	56	
112	[2016-2017][540] Routine Building	63	
113	[2016-2017][550] small IT items and office equipment	88	
114		-	
115	All other projects or programmes - routine expenditure	3	
116	Routine expenditure		287
117	Atypical expenditure		
118	Project or programme*		
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

		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
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	
13	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	-	-	-

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%

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 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 used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.

sch ref

8(i): Billed Quantities by Price Component

Consumer details					Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	Billed quantities by price component																						
Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	delivered to ICPs in disclosure year (MWh)		General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 1D	Night Rate	Under Verandah	Floodlight	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			
					per day	per kWh	per kWh	per kWh	per kWh	per day	per day	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				
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	212,770	87,732	-	-	-	-	-	-	-	-	-	-	-	-	-		
General Supply - 50 kVA	General	Standard	1,564	35,907	1,563	32,723,653	2,329,457	101,116	724,635	3	3	28,136	3,689	-	-	-	-	-	-	-	-	-	-	-	-	-		
General Supply - 100 kVA	General	Standard	641	53,929	644	52,787,197	794,581	91,180	254,294	1	4	1,445	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
General Supply - 150 kVA	General	Standard	258	39,590	261	39,017,537	366,263	-	123,274	-	-	83,123	19,560	-	-	-	-	-	-	-	-	-	-	-	-	-		
General Supply - less than 5 kVA	General	Standard	44	0	43	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Irrigation	Irrigation	Standard	1,592	209,149	-	209,149,701	-	-	-	-	-	-	-	136,971	(11,399)	-	-	-	-	-	-	-	-	-	-	-		
Industrial 400V Supply - kVA	Industrial	Standard	38	49,719	-	-	-	-	-	-	-	-	-	-	-	11,108	-	-	49,719,177	-	-	-	-	-	-	-		
Direct Supply - Day Demand	Industrial	Standard	1	1,250	1	-	-	-	-	-	-	-	-	-	-	245	-	-	1,249,645	-	-	-	-	-	-	-		
Direct Supply - Peak Demand	Industrial	Standard	4	2,203	-	-	-	-	-	-	-	-	-	-	-	-	671	865	2,203,491	-	-	-	-	-	-	-		
CMP	Large User	Standard	1	34,695	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	6,286	-	34,694,898	-	-	-		
Silver Fern Farms	Large User	Standard	1	7,766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,872	-	7,766,485	-	-	-		
Mt Hutt Ski Area	Large User	Standard	1	2,321	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1,045	-	2,320,665	-	-	-		
Highbank Pumps	Large User	Standard	1	5,397	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,600	5,397,419	-	-	-		
Highbank Generation	Generation	Standard	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	386,360	-	-	-	-	-	-		
Montalto Generation	Generation	Standard	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33,740	-	-	-	-	-	-		
Cleardale Generation	Generation	Standard	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30,953	-	-	-	-	-	-		
Livington Generation	Generation	Standard	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,970	-	-	-	-	-	-		
Street Lighting	Street Lighting	Standard	8	1,735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	284,793	-		
Standard consumer totals					17,407	418,658,747	32,457,647	997,850	5,709,472	43	9	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	-	-		
Non-standard consumer totals					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for all consumers					17,407	418,658,747	32,457,647	997,850	5,709,472	43	9	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	-	-		

24

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

Consumer details								Price component	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)	charge revenue in disclosure year	revenue foregone from posted discounts (if available)	Total distribution line charge revenue (if available)	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ per kWh, etc.)		General Supply	Uncontrolled Energy	Controlled Off-Peak Energy	Night Boost 1D	Night Rate	Under Verandah	Floodlight	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						
								per day	per kWh	per kWh	per kWh	per kWh	per day	per day	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							
General Supply - 20 kVA	General	Standard	\$9,093	-	\$7,086	\$2,007		\$816	\$7,755	\$504	\$14	-	\$4	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
General Supply - 50 kVA	General	Standard	\$3,200	-	\$2,428	\$773		\$171	\$2,986	\$41	\$2	-	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
General Supply - 100 kVA	General	Standard	\$4,971	-	\$3,725	\$1,246		\$141	\$4,814	\$14	\$2	-	\$0	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
General Supply - 150 kVA	General	Standard	\$3,651	-	\$2,730	\$921		\$86	\$3,558	\$6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
General Supply - less than 5 kVA	General	Standard	\$9	-	\$9	\$0		\$9	\$0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Irrigation	Irrigation	Standard	\$15,826	-	\$14,471	\$1,355		-	-	-	-	-	-	-	-	16,738	(\$912)	-	-	-	-	-	-	-	-	-	-	-						
Industrial 400V Supply - kVA	Industrial	Standard	\$1,749	-	\$1,145	\$604		-	-	-	-	-	-	-	-	-	-	1,749	-	-	-	-	-	-	-	-	-							
Direct Supply - Day Demand	Industrial	Standard	\$38	-	\$25	\$13		-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-							
Direct Supply - Peak Demand	Industrial	Standard	\$124	-	\$88	\$36		-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-							
CMP	Large User	Standard	\$637	-	\$295	\$342		-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-							
Silver Fern Farms	Large User	Standard	\$150	-	\$48	\$102		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Mt Hutt Ski Area	Large User	Standard	\$195	-	\$138	\$57		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Highbank Pumps	Large User	Standard	\$324	-	\$229	\$95		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Highbank Generation	Generation	Standard	\$386	-	\$386	-		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Montalto Generation	Generation	Standard	\$34	-	\$34	-		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Cleardale Generation	Generation	Standard	\$31	-	\$31	-		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Livington Generation	Generation	Standard	\$8	-	\$8	-		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-						
Street Lighting	Street Lighting	Standard	\$285	-	\$285	-		-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	285	-						
Standard consumer totals								\$1,222	\$19,113	\$565	\$17	-	\$4	\$1	-	-	\$16,738	(\$912)	\$1,787	\$42	\$82	-	\$864	\$576	\$324	-	-	-	-	\$285				
Non-standard consumer totals								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for all consumers								\$1,222	\$19,113	\$565	\$17	-	\$4	\$1	-	-	\$16,738	(\$912)	\$1,787	\$42	\$82	-	\$864	\$576	\$324	-	-	-	-	-	\$285	-	\$285	

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 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

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.	2,539	2,458	(81)	4
9	All	Overhead Line	Wood poles	No.	26,485	26,690	205	4
10	All	Overhead Line	Other pole types	No.	-	-	-	N/A
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	390	395	5	4
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	7	7	-	4
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	21	21	-	3
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	6	6	3
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	48	42	(6)	3
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	131	124	(7)	3
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	22	22	-	3
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	37	29	(8)	3
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	165	159	(6)	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	28	34	6	3
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,979	2,013	34	3
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	215	217	2	3
38	HV	Distribution Cable	Distribution UG PILC	km	4	4	0	3
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	25	23	(2)	3
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	7,655	7,618	(37)	2
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	190	207	17	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	412	469	57	3
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	4,722	5,280	558	3
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	2,446	2,090	(356)	3
47	HV	Distribution Transformer	Voltage regulators	No.	3	2	(1)	3
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	368	384	16	2
49	LV	LV Line	LV OH Conductor	km	98	101	3	3
50	LV	LV Cable	LV UG Cable	km	331	344	13	3
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	276	270	(6)	3
52	LV	Connections	OH/UG consumer service connections	No.	19,253	19,449	196	2
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	153	153	-	1
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	2
55	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	N/A
56	All	Load Control	Centralised plant	Lot	3	3	-	3
57	All	Load Control	Relays	No.	354	354	-	1
58	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
15	SWER (all SWER voltages)			–
16	22kV (other than SWER)	1,312	72	1,384
17	6.6kV to 11kV (inclusive—other than SWER)	704	160	864
18	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				
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

	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

9e(i): Consumer Connections

Number of ICPs connected in year by consumer type

Consumer types defined by EDB*

General
Irrigation
Industrial
Large Generation
[EDB consumer type]

Number of connections (ICPs)

173
15
(1)
-

Connections total

187

Distributed generation

Number of connections made in year

26

connections

Capacity of distributed generation installed in year

0.08

MVA

9e(ii): System Demand

Maximum coincident system demand

GXP demand

162

plus Distributed generation output at HV and above

2

Maximum coincident system demand

163

less Net transfers to (from) other EDBs at HV and above

(0)

Demand on system for supply to consumers' connection points

163

Demand at time of maximum coincident demand (MW)

Electricity volumes carried

Electricity supplied from GXPs

491

less Electricity exports to GXPs

2

plus Electricity supplied from distributed generation

103

less Net electricity supplied to (from) other EDBs

(0)

Electricity entering system for supply to consumers' connection points

591

less Total energy delivered to ICPs

563

Electricity losses (loss ratio)

28

4.8%

Load factor

0.41

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

558

Distribution transformer capacity (Non-EDB owned, estimated)

13

Total distribution transformer capacity

571

Zone substation transformer capacity

330

(MVA)

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

8 **10(i): Interruptions**

9 **Interruptions by class**

Number of interruptions

10 Class A (planned interruptions by Transpower)	-
11 Class B (planned interruptions on the network)	234
12 Class C (unplanned interruptions on the network)	219
13 Class D (unplanned interruptions by Transpower)	-
14 Class E (unplanned interruptions of EDB owned generation)	-
15 Class F (unplanned interruptions of generation owned by others)	-
16 Class G (unplanned interruptions caused by another disclosing entity)	-
17 Class H (planned interruptions caused by another disclosing entity)	-
18 Class I (interruptions caused by parties not included above)	-
19 Total	453

20 **Interruption restoration**

≤3Hrs >3hrs

21 Class C interruptions restored within	165	54
--	-----	----

22 **SAIFI and SAIDI by class**

SAIFI SAIDI

23 Class A (planned interruptions by Transpower)	-	-
24 Class B (planned interruptions on the network)	0.40	110.58
25 Class C (unplanned interruptions on the network)	1.04	76.81
26 Class D (unplanned interruptions by Transpower)	-	-
27 Class E (unplanned interruptions of EDB owned generation)	-	-
28 Class F (unplanned interruptions of generation owned by others)	-	-
29 Class G (unplanned interruptions caused by another disclosing entity)	-	-
30 Class H (planned interruptions caused by another disclosing entity)	-	-
31 Class I (interruptions caused by parties not included above)	-	-
32 Total	1.44	187.4

33 **Normalised SAIFI and SAIDI**

Normalised SAIFI Normalised SAIDI

34 Classes B & C (interruptions on the network)	1.44	187.40	per 2012 determination
35 † Classes B & C (Assessed values for Default Price-Quality Path Determination)	1.24	132.11	
36 ‡ Assessed value are applicable to reliability limits			

37 **Quality path normalised reliability limit**

SAIFI reliability SAIDI reliability limit limit

38 SAIFI and SAIDI limits applicable to disclosure year*	1.61	151.04
--	------	--------

39 * 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		