



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

Company Name	EA Networks
Disclosure Date	29 August 2018
Disclosure Year (year ended)	31 March 2018

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

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Company Name **EA Networks**
For Year Ended **31 March 2018**

SCHEDULE 1: ANALYTICAL RATIOS

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

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

sch ref

7 1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
Operational expenditure	22,204	628	66,598	3,861	20,062
Network	6,507	184	19,518	1,132	5,880
Non-network	15,697	444	47,080	2,730	14,183
Expenditure on assets	30,220	854	90,640	5,255	27,304
Network	28,458	804	85,357	4,949	25,713
Non-network	1,761	50	5,282	306	1,591

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	89,324	2,525
Standard consumer line charge revenue	89,324	2,525
Non-standard consumer line charge revenue	–	–

23 1(iii): Service intensity measures

Demand density	58	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	174	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	28,269	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

30 1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	12,062	24.37%
Pass-through and recoverable costs excluding financial incentives and wash-ups	13,315	26.91%
Total depreciation	9,240	18.67%
Total revaluations	2,756	5.57%
Regulatory tax allowance	2,781	5.62%
Regulatory profit/(loss) including financial incentives and wash-ups	14,845	30.00%
Total regulatory income	49,487	

40 1(v): Reliability

Interruption rate	17.64	Interruptions per 100 circuit km
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Company Name **EA Networks**
 For Year Ended **31 March 2018**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(ii).
 EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

2(i): Return on Investment

	CF-2 31 Mar 16	CF-1 31 Mar 17	Current Year CF 31 Mar 18
	%	%	%
ROI – comparable to a post tax WACC			
Reflecting all revenue earned	5.71%	5.89%	5.58%
Excluding revenue earned from financial incentives	5.71%	5.86%	5.51%
Excluding revenue earned from financial incentives and wash-ups	5.71%	5.91%	5.56%
Mid-point estimate of post tax WACC			
25th percentile estimate	4.66%	4.75%	4.35%
75th percentile estimate	6.09%	5.48%	5.72%
ROI – comparable to a vanilla WACC			
Reflecting all revenue earned	6.36%	6.41%	6.17%
Excluding revenue earned from financial incentives	6.36%	6.41%	6.11%
Excluding revenue earned from financial incentives and wash-ups	6.36%	6.45%	6.15%
WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
Mid-point estimate of vanilla WACC			
25th percentile estimate	6.02%	5.31%	5.60%
75th percentile estimate	6.74%	6.03%	6.29%

2(ii): Information Supporting the ROI

	(\$000)		
Total opening RAB value	251,141		
plus Opening deferred tax	(10,975)		
Opening RIV		240,166	
Line charge revenue		48,524	
Expenses cash outflow	25,377		
add Assets commissioned	14,921		
less Asset disposals	218		
add Tax payments	1,140		
less Other regulated income	963		
Mid-year net cash outflows		40,257	
Term credit spread differential allowance		-	
Total closing RAB value	259,359		
less Adjustment resulting from asset allocation	(0)		
less Lost and found assets adjustment	-		
plus Closing deferred tax	(12,615)		
Closing RIV		246,744	
ROI – comparable to a vanilla WACC			6.17%
Leverage (%)			44%
Cost of debt assumption (%)			4.89%
Corporate tax rate (%)			28%
ROI – comparable to a post tax WACC			5.58%

2(iii): Information Supporting the Monthly ROI

	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
April						
May						
June						
July						
August						
September						
October						
November						
December						
January						
February						
March						
Total						
Tax payments						N/A
Term credit spread differential allowance						N/A
Closing RIV						N/A
Monthly ROI – comparable to a vanilla WACC						N/A
Monthly ROI – comparable to a post tax WACC						N/A

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

Year-end ROI – comparable to a vanilla WACC	5.97%
Year-end ROI – comparable to a post tax WACC	5.38%

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

2(v): Financial Incentives and Wash-Ups

Net recoverable costs allowed under incremental rolling incentive scheme	-
Purchased assets – avoided transmission charge	
Energy efficiency and demand incentive allowance	
Quality incentive adjustment	207
Other financial incentives	
Financial Incentives	207
Impact of financial incentives on ROI	0.06%
Input methodology claw-back	
Recoverable customised price-quality path costs	
Catastrophic event allowance	
Capex wash-up adjustment	(146)
Transmission asset wash-up adjustment	
2013–2015 NPV wash-up allowance	
Reconsideration event allowance	
Other wash-ups	
Wash-up costs	(146)
Impact of wash-up costs on ROI	-0.04%

Company Name **EA Networks**
For Year Ended **31 March 2018**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

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

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

sch ref

		(\$000)
7	3(i): Regulatory Profit	
8	Income	
9	Line charge revenue	48,524
10	plus Gains / (losses) on asset disposals	(184)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	1,147
12		
13	Total regulatory income	49,487
14	Expenses	
15	less Operational expenditure	12,062
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	13,315
18		
19	Operating surplus / (deficit)	24,110
20		
21	less Total depreciation	9,240
22		
23	plus Total revaluations	2,756
24		
25	Regulatory profit / (loss) before tax	17,625
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	2,781
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	14,845
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	174
36	Commerce Act levies	94
37	Industry levies	101
38	CPP specified pass through costs	-
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	10,717
41	Transpower new investment contract charges	1,246
42	System operator services	-
43	Distributed generation allowance	983
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	13,315
47		
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)
49		
50		CY-1 CY
51	Allowed controllable opex	31 Mar 17 31 Mar 18
52	Actual controllable opex	
53		
54	Incremental change in year	
55		
56		Previous years' Previous years'
57		incremental incremental
58		change change adjusted
59		CY-5 31 Mar 13
60		CY-4 31 Mar 14
61		CY-3 31 Mar 15
62		CY-2 31 Mar 16
63		CY-1 31 Mar 17
64	Net incremental rolling incentive scheme	-
65		
66	Net recoverable costs allowed under incremental rolling incentive scheme	-
67		
68	3(iv): Merger and Acquisition Expenditure	(\$000)
69	Merger and acquisition expenditure	
70		
71	<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>	
72		
73	3(v): Other Disclosures	(\$000)
74		
75	Self-insurance allowance	

Company Name **EA Networks**
For Year Ended **31 March 2018**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

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

4(i): Regulatory Asset Base Value (Rolled Forward)		for year ended	RAB 31 Mar 14 (\$000)	RAB 31 Mar 15 (\$000)	RAB 31 Mar 16 (\$000)	RAB 31 Mar 17 (\$000)	RAB 31 Mar 18 (\$000)
Total opening RAB value			207,828	220,521	226,349	237,258	251,141
less Total depreciation			6,958	7,375	7,616	8,152	9,240
plus Total revaluations			3,159	184	1,324	5,072	2,756
plus Assets commissioned			19,136	13,834	17,848	19,679	14,921
less Asset disposals			1,614	815	647	2,717	218
plus Lost and found assets adjustment			-	-	-	-	-
plus Adjustment resulting from asset allocation			(1,031)	-	(0)	(0)	(0)
Total closing RAB value			220,521	226,349	237,258	251,141	259,359

4(ii): Unallocated Regulatory Asset Base		Unallocated RAB * (\$000)	RAB (\$000)
Total opening RAB value		251,141	251,141
less Total depreciation		9,240	9,240
plus Total revaluations		2,756	2,756
plus Assets commissioned (other than below)		10,196	10,196
Assets acquired from a regulated supplier		4,724	4,724
Assets acquired from a related party		-	-
Assets commissioned		14,921	14,921
less Asset disposals (other than below)		218	218
Asset disposals to a regulated supplier		-	-
Asset disposals to a related party		-	-
Asset disposals		218	218
plus Lost and found assets adjustment		-	-
plus Adjustment resulting from asset allocation		-	(0)
Total closing RAB value		259,359	259,359

* 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 _t		1.011
CPI _{t-4}		1.000
Revaluation rate (%)		1.10%

4(iii): Calculation of Revaluation Rate and Revaluation of Assets		Unallocated RAB * (\$000)	RAB (\$000)
Total opening RAB value		251,141	251,141
less Opening value of fully depreciated, disposed and lost assets		605	605
Total opening RAB value subject to revaluation		250,536	250,536
Total revaluations		2,756	2,756

4(iv): Roll Forward of Works Under Construction		Unallocated works under construction	Allocated works under construction
Works under construction—preceding disclosure year		2,555	2,555
plus Capital expenditure		16,215	16,215
less Assets commissioned		14,921	14,921
plus Adjustment resulting from asset allocation		-	-
Works under construction - current disclosure year		3,850	3,850
Highest rate of capitalised finance applied		-	-

4(v): Regulatory Depreciation		Unallocated RAB * (\$000)	RAB (\$000)
Depreciation - standard		8,154	8,154
Depreciation - no standard life assets		1,086	1,086
Depreciation - modified life assets		-	-
Depreciation - alternative depreciation in accordance with CPP		-	-
Total depreciation		9,240	9,240

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)	Closing RAB value		
		Depreciation charge for the period (RAB)	Closing RAB value under 'standard' depreciation	

* Include additional rows if needed

4(vii): Disclosure by Asset Category		(\$000 unless otherwise specified)									
		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
less Total depreciation		458	29	1,064	1,785	1,467	1,912	1,509	24	1,112	9,240
plus Total revaluations		145	10	262	536	666	611	382	5	161	2,756
plus Assets commissioned		82	-	314	2,433	6,950	3,339	864	-	938	14,921
less Asset disposals		33	-	-	69	29	-	-	-	87	218
plus Lost and found assets adjustment		-	-	-	-	-	-	-	-	-	-
plus Adjustment resulting from asset allocation		-	-	-	-	-	-	-	-	-	-
plus Asset category transfers		(0)	-	1,461	0	0	(0)	(510)	(706)	(245)	0
Total closing RAB value		12,933	847	23,431	48,050	66,678	57,735	34,526	413	14,747	259,359
Asset Life											
Weighted average remaining asset life		34.1	34.5	33.5	31.5	45.1	37.3	28.3	12.1	20.4	(years)
Weighted average expected total asset life		49.1	55.0	43.9	50.7	55.0	45.0	38.1	15.9	23.4	(years)

Company Name **EA Networks**
For Year Ended **31 March 2018**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		(\$000)
7	5a(i): Regulatory Tax Allowance	
8	Regulatory profit / (loss) before tax	17,625
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	192 *
12	Amortisation of initial differences in asset values	2,143
13	Amortisation of revaluations	749
14		3,272
15		
16	less Total revaluations	2,756
17	Income included in regulatory profit / (loss) before tax but not taxable	- *
18	Discretionary discounts and customer rebates	2,858
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	398 *
20	Notional deductible interest	4,955
21		10,967
22		
23	Regulatory taxable income	9,930
24		
25	less Utilised tax losses	
26	Regulatory net taxable income	9,930
27		
28	Corporate tax rate (%)	28%
29	Regulatory tax allowance	2,781
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	62,211
37	less Amortisation of initial differences in asset values	2,143
38	plus Adjustment for unamortised initial differences in assets acquired	
39	less Adjustment for unamortised initial differences in assets disposed	75
40	Closing unamortised initial differences in asset values	59,993
41		
42	Opening weighted average remaining useful life of relevant assets (years)	29
43		
44	5a(iv): Amortisation of Revaluations	(\$000)
45		
46	Opening sum of RAB values without revaluations	233,880
47		
48	Adjusted depreciation	8,491
49	Total depreciation	9,240
50	Amortisation of revaluations	749
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	(10,975)
61		
62	plus Tax effect of adjusted depreciation	2,378
63		
64	less Tax effect of tax depreciation	3,340
65		
66	plus Tax effect of other temporary differences*	8
67		
68	less Tax effect of amortisation of initial differences in asset values	600
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	86
73		
74	plus Deferred tax cost allocation adjustment	0
75		
76	Closing deferred tax	(12,615)
77		
78	5a(vii): Disclosure of Temporary Differences	
79	In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).	
80		
81	5a(viii): Regulatory Tax Asset Base Roll-Forward	(\$000)
82		
83	Opening sum of regulatory tax asset values	132,029
84	less Tax depreciation	11,927
85	plus Regulatory tax asset value of assets commissioned	14,921
86	less Regulatory tax asset value of asset disposals	431
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	134,592

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

5b(i): Summary—Related Party Transactions

(\$000)

Total regulatory income	
Operational expenditure	3,943
Capital expenditure	4,724
Market value of asset disposals	
Other related party transactions	

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

Name of related party	Related party relationship
EA Networks field services	A division of EA Networks which supplies electricity distribution contracting services
EA Networks Fibre	A division of EA Networks which supplies fibre communication services
Ashburton District Council	Significant shareholder

* include additional rows if needed

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
EA Networks field services	Opex	Service interruptions and emergencies	774	ID clause 2.3.6(1)(b)
EA Networks field services	Opex	Vegetation management	138	ID clause 2.3.6(1)(b)
EA Networks field services	Opex	Network maintenance	1,640	ID clause 2.3.6(1)(b)
EA Networks field services	Opex	System operations and network support	301	ID clause 2.3.6(1)(b)
EA Networks field services	Opex	Business support	135	ID clause 2.3.6(1)(b)
EA Networks field services	Capex	RAB assets	4,724	IM clause 2.2.11(5)(g)
	[Select one]			[Select one]
EA Networks Fibre	Opex	System operations and network support	776	ID clause 2.3.6(1)(f)
	[Select one]			[Select one]
Ashburton District Council	Opex	Rates	178	ID clause 2.3.6(1)(a)
	[Select one]			[Select one]

* include additional rows if needed

Company Name **EA Networks**
 For Year Ended **31 March 2018**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

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

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

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

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

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

Company Name **EA Networks**
 For Year Ended **31 March 2018**

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)
7	5d(i): Operating Cost Allocations					
8						
9						
10	Service interruptions and emergencies					
11	Directly attributable		774			
12	Not directly attributable					
13	Total attributable to regulated service		774			
14	Vegetation management					
15	Directly attributable		290			
16	Not directly attributable					
17	Total attributable to regulated service		290			
18	Routine and corrective maintenance and inspection					
19	Directly attributable		918			
20	Not directly attributable					
21	Total attributable to regulated service		918			
22	Asset replacement and renewal					
23	Directly attributable		1,553			
24	Not directly attributable					
25	Total attributable to regulated service		1,553			
26	System operations and network support					
27	Directly attributable		3,317			
28	Not directly attributable					
29	Total attributable to regulated service		3,317			
30	Business support					
31	Directly attributable		5,210			
32	Not directly attributable					
33	Total attributable to regulated service		5,210			
34						
35	Operating costs directly attributable		12,060			
36	Operating costs not directly attributable					
37	Operational expenditure		12,060			
38						

5d(ii): Other Cost Allocations		
		(\$000)
40	Pass through and recoverable costs	
41	Pass through costs	
42	Directly attributable	369
43	Not directly attributable	
44	Total attributable to regulated service	369
45	Recoverable costs	
46	Directly attributable	12,946
47	Not directly attributable	
48	Total attributable to regulated service	12,946
49		

5d(iii): Changes in Cost Allocations* †			(\$000)	
			CY-1	Current Year (CY)
51	Change in cost allocation 1			
52	Cost category			
53	Original allocator or line items			
54	New allocator or line items			
55				
56				
57	Rationale for change			
58				
59				
60				
61	Change in cost allocation 2			
62	Cost category			
63	Original allocator or line items			
64	New allocator or line items			
65				
66	Rationale for change			
67				
68				
69				
70	Change in cost allocation 3			
71	Cost category			
72	Original allocator or line items			
73	New allocator or line items			
74				
75	Rationale for change			
76				
77				

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

† include additional rows if needed

Company Name	EA Networks
For Year Ended	31 March 2018

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

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

sch ref

5e(i): Regulated Service Asset Values		Value allocated (\$000s) Electricity distribution services
7		
8		
9		
10	Subtransmission lines	
11	Directly attributable	12,933
12	Not directly attributable	
13	Total attributable to regulated service	12,933
14	Subtransmission cables	
15	Directly attributable	847
16	Not directly attributable	
17	Total attributable to regulated service	847
18	Zone substations	
19	Directly attributable	23,431
20	Not directly attributable	
21	Total attributable to regulated service	23,431
22	Distribution and LV lines	
23	Directly attributable	48,050
24	Not directly attributable	
25	Total attributable to regulated service	48,050
26	Distribution and LV cables	
27	Directly attributable	66,678
28	Not directly attributable	
29	Total attributable to regulated service	66,678
30	Distribution substations and transformers	
31	Directly attributable	57,735
32	Not directly attributable	
33	Total attributable to regulated service	57,735
34	Distribution switchgear	
35	Directly attributable	34,526
36	Not directly attributable	
37	Total attributable to regulated service	34,526
38	Other network assets	
39	Directly attributable	413
40	Not directly attributable	
41	Total attributable to regulated service	413
42	Non-network assets	
43	Directly attributable	14,747
44	Not directly attributable	
45	Total attributable to regulated service	14,747
46		
47	Regulated service asset value directly attributable	259,359
48	Regulated service asset value not directly attributable	-
49	Total closing RAB value	259,359
50		

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.
 † include additional rows if needed

Company Name: **EA Networks**
 For Year Ended: **31 March 2018**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch/inf		(\$000)	(\$000)
7	6a(i): Expenditure on Assets		
8	Consumer connection		2,178
9	System growth		3,138
10	Asset replacement and renewal		8,390
11	Asset relocations		28
12	Reliability, safety and environment:		
13	Quality of supply	1,668	
14	Legislative and regulatory		
15	Other reliability, safety and environment	49	
16	Total reliability, safety and environment		1,718
17	Expenditure on network assets		15,460
18	Expenditure on non-network assets		957
19			
20	Expenditure on assets		16,416
21	plus Cost of financing		
22	less Value of capital contributions		201
23	plus Value of vested assets		
24			
25	Capital expenditure		16,215
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		
27	Energy efficiency and demand side management, reduction of energy losses		
28	Overhead to underground conversion		5,352
29	Research and development		
30	6a(iii): Consumer Connection		
31	<i>Consumer types defined by EDB*</i>		
32	City, which have changed their capacity	181	
33	Safety related	414	
34	Large new connections	114	
35	Rural with no transformer new connections	222	
36	Rural with transformer new connections	1,000	
37	Substation new connections	20	
38	Urban new connections	161	
39	* include additional rows if needed		
40	Consumer connection expenditure		2,178
41	less Capital contributions funding consumer connection expenditure	181	
42	Consumer connection less capital contributions		1,997
43			
44	6a(iv): System Growth and Asset Replacement and Renewal		
45			
46	Subtransmission	45	484
47	Zone substations	31	40
48	Distribution and LV lines	507	1,885
49	Distribution and LV cables	363	5,142
50	Distribution substations and transformers	1,893	2,196
51	Distribution switchgear	101	511
52	Other network assets	-	-
53	System growth and asset replacement and renewal expenditure	3,138	8,390
54	less Capital contributions funding system growth and asset replacement and renewal		
55	System growth and asset replacement and renewal less capital contributions	3,138	8,390
56	6a(v): Asset Relocations		
57	<i>Project or programme*</i>		
58	[2017-2018] unplanned relocation line requested by customer	28	
59	[Description of material project or programme]		
60	[Description of material project or programme]		
61	[Description of material project or programme]		
62	[Description of material project or programme]		
63	* include additional rows if needed		
64	All other projects or programmes - asset relocations		
65	Asset relocations expenditure		28
66	less Capital contributions funding asset relocations	8	
67	Asset relocations less capital contributions		20
68			
69	6a(vi): Quality of Supply		
70	<i>Project or programme*</i>		
71	[2016-2017] ZS-TN 22/0.1 Transformer and Switchgear	85	
72	[2017-2018] Rural Ring Main Unit installations	730	
73	[2017-2018] SCADA - Distribution Automation	251	
74	[2017-2018] ZSS - Replace Beckwith VRS - Doris, Coldstream, Wilkanui	52	
75	[2017-2018] ZSS MIV & TN - Neutral Switch	10	
76	[2017-2018] 66/22kV OH New River Poles - Ashburton River North Branch	66	
77	[2017-2018] 22kV US New Tinswald ZS Hinds Hwy, Fords Rd Cable	331	
78	* include additional rows if needed		
79	All other projects programmes - quality of supply	127	
80	Quality of supply expenditure		1,668
81	less Capital contributions funding quality of supply		
82	Quality of supply less capital contributions		1,668
83	6a(vii): Legislative and Regulatory		
84	<i>Project or programme*</i>		
85	[Description of material project or programme]		
86	[Description of material project or programme]		
87	[Description of material project or programme]		
88	[Description of material project or programme]		
89	* include additional rows if needed		
90	All other projects or programmes - legislative and regulatory		
91	Legislative and regulatory expenditure		-
92	less Capital contributions funding legislative and regulatory		
93	Legislative and regulatory less capital contributions		-
94	6a(viii): Other Reliability, Safety and Environment		
95	<i>Project or programme*</i>		
96	[2017-2018] ZS Substation Surveillance Programme	39	
97	[2017-2018] Earthing upgrade	26	
98	[Description of material project or programme]		
99	[Description of material project or programme]		
100	[Description of material project or programme]		
101	* include additional rows if needed		
102	All other projects or programmes - other reliability, safety and environment	14	
103	Other reliability, safety and environment expenditure		49
104	less Capital contributions funding other reliability, safety and environment		
105	Other reliability, safety and environment less capital contributions		49
106	6a(ix): Non-Network Assets		
107	Routine expenditure		
108	<i>Project or programme*</i>		
109	[2017-2018] Routine Vehicles	162	
110	[2017-2018] Routine Info Tech	31	
111	[2017-2018] Routine Building Work	13	
112	[2017-2018] Routine Plant	1	
113	[Description of material project or programme]		
114	[Description of material project or programme]		
115	All other projects or programmes - routine expenditure		
116	Routine expenditure		209
117	Atypical expenditure		
118	<i>Project or programme*</i>		
119	[2017-2018] DMR Repeater Stations for Rakaiia Gorge	5	
120	[2017-2018] Software - CRM Management	297	
121	[2016-2018] Software - ERP Development	291	
122	[2017-2018] Software/Hardware - IT Field Mobility	18	
123	[2017-2018] Hardware (IT) - New and Upgraded	10	
124	[2017-2018] Transformer Loss Measurement	87	
125	* include additional rows if needed		
126	All other projects or programmes - atypical expenditure	21	
127	Atypical expenditure		698
128	Expenditure on non-network assets		957

Company Name **EA Networks**
 For Year Ended **31 March 2018**

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year. EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
8	Service interruptions and emergencies	774	
9	Vegetation management	290	
10	Routine and corrective maintenance and inspection	918	
11	Asset replacement and renewal	1,553	
12	Network opex		3,535
13	System operations and network support	3,317	
14	Business support	5,210	
15	Non-network opex		8,527
16			
17	Operational expenditure		12,062
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		140
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name **EA Networks**
For Year Ended **31 March 2018**

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

7(i): Revenue		Target (\$000) ¹	Actual (\$000)	% variance
7	Line charge revenue	47,960	48,524	1%
7(ii): Expenditure on Assets		Forecast (\$000) ²	Actual (\$000)	% variance
9	Consumer connection	2,990	2,178	(27%)
10	System growth	3,312	3,138	(5%)
11	Asset replacement and renewal	10,399	8,398	(19%)
12	Asset relocations	–	28	–
13	Reliability, safety and environment:			
14	Quality of supply	2,254	1,668	(26%)
15	Legislative and regulatory	–	–	–
16	Other reliability, safety and environment	549	49	(91%)
17	Total reliability, safety and environment	2,803	1,718	(39%)
18	Expenditure on network assets	19,504	15,460	(21%)
19	Expenditure on non-network assets	2,129	957	(55%)
20	Expenditure on assets	21,633	16,416	(24%)
21				
7(iii): Operational Expenditure				
22	Service interruptions and emergencies	847	774	(9%)
23	Vegetation management	611	290	(53%)
24	Routine and corrective maintenance and inspection	811	918	13%
25	Asset replacement and renewal	846	1,553	84%
26	Network opex	3,115	3,535	13%
27	System operations and network support	3,424	3,317	(3%)
28	Business support	5,188	5,210	0%
29	Non-network opex	8,612	8,527	(1%)
30	Operational expenditure	11,727	12,062	3%
31				
7(iv): Subcomponents of Expenditure on Assets (where known)				
32	Energy efficiency and demand side management, reduction of energy losses		–	–
33	Overhead to underground conversion	9,446	5,352	(43%)
34	Research and development		–	–
35				
36				
7(v): Subcomponents of Operational Expenditure (where known)				
37	Energy efficiency and demand side management, reduction of energy losses		22	–
38	Direct billing		–	–
39	Research and development		–	–
40	Insurance		140	–
41				
42				

¹ From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

² From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)

SCHEDULE 6: 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 GSE in its pricing schedule. 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.

80: Billed Quantities by Price Component

Consumer group name or price category code	Consumer type or sign (eg, residential, commercial etc)	Standard or non-standard consumer group (type)	Average no. of ICPS in disclosure year	Energy delivered to ICPS in disclosure year (MWh)
General Supply	Residential	Standard	1,000	1,000
Uncontracted Energy	Residential	Standard	1,000	1,000
Contracted DF Peak Energy	Residential	Standard	1,000	1,000
Night Base 10	Residential	Standard	1,000	1,000
Night Base	Residential	Standard	1,000	1,000
Other Variable	Residential	Standard	1,000	1,000
FixedRate	Residential	Standard	1,000	1,000
Export 6000	Residential	Standard	1,000	1,000
Generation Credit	Residential	Standard	1,000	1,000
Connected 600	Residential	Standard	1,000	1,000
Connected 600	Residential	Standard	1,000	1,000
Industrial 600	Residential	Standard	1,000	1,000
Industrial Peak 600	Residential	Standard	1,000	1,000
Industrial 6000	Residential	Standard	1,000	1,000
Industrial Energy	Residential	Standard	1,000	1,000
Large Clear Fixed	Residential	Standard	1,000	1,000
Large Clear 600	Residential	Standard	1,000	1,000
Large Clear 6000	Residential	Standard	1,000	1,000
Large Clear Energy	Residential	Standard	1,000	1,000
Smarting	Residential	Standard	1,000	1,000

Billed quantities by price component

General Supply	Uncontracted Energy	Contracted DF Peak Energy	Night Base 10	Night Base	Other Variable	FixedRate	Export 6000	Generation Credit	Connected 600	Connected 600	Industrial 600	Industrial Peak 600	Industrial 6000	Industrial Energy	Large Clear Fixed	Large Clear 600	Large Clear 6000	Large Clear Energy	Smarting
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

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

Consumer group name or price category code	Consumer type or sign (eg, residential, commercial etc)	Standard or non-standard consumer group (type)	Total line charge revenue in disclosure year	Residual revenue (transfer from parent accounts if applicable)	Total distribution line charge revenue (\$)	Rate \$, 5 per MWh, per kWh, etc
General Supply	Residential	Standard	1,000	1,000	1,000	1,000
Uncontracted Energy	Residential	Standard	1,000	1,000	1,000	1,000
Contracted DF Peak Energy	Residential	Standard	1,000	1,000	1,000	1,000
Night Base 10	Residential	Standard	1,000	1,000	1,000	1,000
Night Base	Residential	Standard	1,000	1,000	1,000	1,000
Other Variable	Residential	Standard	1,000	1,000	1,000	1,000
FixedRate	Residential	Standard	1,000	1,000	1,000	1,000
Export 6000	Residential	Standard	1,000	1,000	1,000	1,000
Generation Credit	Residential	Standard	1,000	1,000	1,000	1,000
Connected 600	Residential	Standard	1,000	1,000	1,000	1,000
Connected 600	Residential	Standard	1,000	1,000	1,000	1,000
Industrial 600	Residential	Standard	1,000	1,000	1,000	1,000
Industrial Peak 600	Residential	Standard	1,000	1,000	1,000	1,000
Industrial 6000	Residential	Standard	1,000	1,000	1,000	1,000
Industrial Energy	Residential	Standard	1,000	1,000	1,000	1,000
Large Clear Fixed	Residential	Standard	1,000	1,000	1,000	1,000
Large Clear 600	Residential	Standard	1,000	1,000	1,000	1,000
Large Clear 6000	Residential	Standard	1,000	1,000	1,000	1,000
Large Clear Energy	Residential	Standard	1,000	1,000	1,000	1,000
Smarting	Residential	Standard	1,000	1,000	1,000	1,000

Line charge revenues (\$000) by price component

General Supply	Uncontracted Energy	Contracted DF Peak Energy	Night Base 10	Night Base	Other Variable	FixedRate	Export 6000	Generation Credit	Connected 600	Connected 600	Industrial 600	Industrial Peak 600	Industrial 6000	Industrial Energy	Large Clear Fixed	Large Clear 600	Large Clear 6000	Large Clear Energy	Smarting
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

80: Number of ICPS Directly Billed

Number of ICPS directly billed per year end

Check

Company Name	EA Networks
For Year Ended	31 March 2018
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.	2,458	2,483	25	4
10	All	Overhead Line	Wood poles	No.	26,690	27,187	497	4
11	All	Overhead Line	Other pole types	No.	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	395	387	(8)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	7	7	0	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	28	7	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)	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	42	68	26	3
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	124	-	(124)	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	22	157	135	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.	29	32	3	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	159	207	48	3
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	3	3	3
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	34	36	2	3
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,013	2,021	8	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	217	265	48	3
39	HV	Distribution Cable	Distribution UG PILC	km	4	4	-	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.	23	26	3	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.	7,618	7,650	32	2
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	207	-	(207)	N/A
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	469	481	12	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	5,280	5,154	(126)	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	2,090	2,176	86	3
48	HV	Distribution Transformer	Voltage regulators	No.	2	2	-	3
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	384	501	117	3
50	LV	LV Line	LV OH Conductor	km	101	96	(5)	3
51	LV	LV Cable	LV UG Cable	km	344	344	(0)	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	270	272	2	3
53	LV	Connections	OH/UG consumer service connections	No.	19,449	19,653	204	2
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	153	202	49	2
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	-	N/A
58	All	Load Control	Relays	No.	354	381	27	1
59	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name: EA Networks
For Year Ended: 31 March 2018
Network / Sub-network Name:

SCHEDULE 9b: ASSET AGE PROFILE

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

Table with columns: Disclosure Year (year ended), Number of assets at disclosure year end by installation date, and No. with end of year default. Rows include Voltage, Asset category, Asset class, and various equipment types like Overhead Line, Subtransmission Line, and Distribution Transformer.

Company Name	EA Networks
For Year Ended	31 March 2018
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)			Total circuit length
11	> 66kV	Overhead (km)	Underground (km)	(km)
12	50kV & 66kV	288	2	290
13	33kV	99	5	104
14	SWER (all SWER voltages)	–	–	–
15	22kV (other than SWER)	1,347	104	1,451
16	6.6kV to 11kV (inclusive—other than SWER)	674	165	839
17	Low voltage (< 1kV)	96	344	440
18	Total circuit length (for supply)	2,504	620	3,124
19				
20	Dedicated street lighting circuit length (km)	33	239	272
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	100	4%	
25	Rural	2,354	94%	
26	Remote only	50	2%	
27	Rugged only	–	–	
28	Remote and rugged	–	–	
29	Unallocated overhead lines	–	–	
30	Total overhead length	2,504	100%	
31				
32		Circuit length (km)	(% of total circuit length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	468	15%	
34		Circuit length (km)	(% of total overhead length)	
35	Overhead circuit requiring vegetation management	2,504	100%	

Company Name **EA Networks**
 For Year Ended **31 March 2018**

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	18
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network		

Company Name	EA Networks
For Year Ended	31 March 2018
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

* include additional rows if needed

Number of connections (ICPs)

185
6
2
-

Connections total

193

Distributed generation

Number of connections made in year

27	connections
----	-------------

Capacity of distributed generation installed in year

0.15	MVA
------	-----

9e(ii): System Demand

Maximum coincident system demand

GXP demand

180

plus Distributed generation output at HV and above

1

Maximum coincident system demand

181

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

(0)

Demand on system for supply to consumers' connection points

181

Electricity volumes carried

Electricity supplied from GXPs

441

less Electricity exports to GXPs

1

plus Electricity supplied from distributed generation

140

less Net electricity supplied to (from) other EDBs

(0)

Electricity entering system for supply to consumers' connection points

581

less Total energy delivered to ICPs

543

Electricity losses (loss ratio)

37	6.5%
----	------

Load factor

0.37

9e(iii): Transformer Capacity

Distribution transformer capacity (EDB owned)

(MVA)

601

Distribution transformer capacity (Non-EDB owned, estimated)

13

Total distribution transformer capacity

614

Zone substation transformer capacity

328

Company Name	EA Networks
For Year Ended	31 March 2018
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)	308		
12	Class C (unplanned interruptions on the network)	243		
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	551		
20				
21	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruptions restored within	200	43	
23				
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	-	-	
26	Class B (planned interruptions on the network)	0.56	162.55	
27	Class C (unplanned interruptions on the network)	1.34	94.66	
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	1.90	257.2	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	1.90	257.21	
38	†Classes B & C (Assessed values for Default Price-Quality Path Determination)	1.62	175.93	
39	† Assessed value are applicable to reliability limits			
40	Quality path normalised reliability limit	SAIFI reliability limit	SAIDI reliability limit	
41	SAIFI and SAIDI limits applicable to disclosure year*	1.61	151.04	
42	* not applicable to exempt EDBs			
43				
44	10(ii): Class C Interruptions and Duration by Cause			
45	Cause	SAIFI	SAIDI	
46	Lightning	0.00	0.11	
47	Vegetation	0.07	3.99	
48	Adverse weather	0.23	15.16	
49	Adverse environment	-	-	
50	Third party interference	0.11	8.33	
51	Wildlife	0.13	16.76	
52	Human error	0.23	6.20	
53	Defective equipment	0.37	27.99	
54	Cause unknown	0.21	16.12	
55				
56	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
57	Main equipment involved	SAIFI	SAIDI	
58	Subtransmission lines	0.04	15.41	
59	Subtransmission cables	-	-	
60	Subtransmission other	-	-	
61	Distribution lines (excluding LV)	0.46	130.10	
62	Distribution cables (excluding LV)	0.05	17.03	
63	Distribution other (excluding LV)	-	-	
64				
65	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
66	Main equipment involved	SAIFI	SAIDI	
67	Subtransmission lines	0.29	9.11	
68	Subtransmission cables	-	-	
69	Subtransmission other	0.04	2.12	
70	Distribution lines (excluding LV)	0.91	77.18	
71	Distribution cables (excluding LV)	0.08	5.46	
72	Distribution other (excluding LV)	0.02	0.79	
73				
74	10(v): Fault Rate			
75	Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
76	Subtransmission lines	18	384	4.69
77	Subtransmission cables	-	7	-
78	Subtransmission other	2	-	-
79	Distribution lines (excluding LV)	230	1,959	11.74
80	Distribution cables (excluding LV)	9	265	3.39
81	Distribution other (excluding LV)	5	-	-
	Total	264		