

# **Orion New Zealand Limited**

Information for disclosure for the year ended 31 March 2020

Electricity distribution information disclosure determination 2012

Approved 31 August 2020

Orion New Zealand Ltd 565 Wairakei Road PO Box 13896 Christchurch 8141 +64 3 363 9898 oriongroup.co.nz

Company Name **Orion New Zealand Limited** 31 March 2020 For Year Ended

# **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,

mus info	s schedule calculates expenditure, revenue and service ratios from the informati is the interpreted with care. The Commerce Commission will publish a summati rmation disclosed in accordance with this and other schedules, and information i information is part of audited disclosure information (as defined in section 1.4 ·	and analysis of information analysis of in	nation disclosed in other requirements	accordance with the s of the determination	e ID determination. on.	This will include
sch re			. <i>"</i> ,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
7	1(i): Expenditure metrics					
8		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)
9	Operational expenditure	18,710	298	101,203	5,310	28,032
10	Network	8,361	133	45,226	2,373	12,527
11	Non-network	10,349	165	55,977	2,937	15,505
12				1		,
13	Expenditure on assets	20,885	332	112,969	5,927	31,292
14	Network	19,569	311	105,852	5,554	29,320
15	Non-network	1,316	21	7,117	373	1,971
16	1(ii): Revenue metrics	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs			
18	T. A. J		(\$/ICP)	1		
19 20	Total consumer line charge revenue Standard consumer line charge revenue	74,005 75,880	1,177 1,156			
21	Non-standard consumer line charge revenue	31,622	292,551			
22	Non standard consumer line charge revenue	31,022	232,331			
23	1(iii): Service intensity measures					
25	Demand density	52	Maximum coincid	lent system demand	l per km of circuit le	ngth (for supply) (kW/k
26	Volume density	284	Total energy deliv	vered to ICPs per km	of circuit length (fo	or supply) (MWh/km)
27	Connection point density	18	Average number	of ICPs per km of cir	cuit length (for sup	oly) (ICPs/km)
28	Energy intensity	15,903	Total energy deliv	vered to ICPs per ave	erage number of IC	Ps (kWh/ICP)
29						
80	1(iv): Composition of regulatory income		(6000)	0/ - 5		
31			(\$000)	% of revenue	1	
32	Operational expenditure		61,292	24.93%		
33	Pass-through and recoverable costs excluding financial incenti	ives and wash-ups	64,404	26.20%		
34	Total revoluntions		43,007	17.49%		
35 36	Total revaluations  Regulatory tax allowance		27,543 22,718	11.20% 9.24%		
37	Regulatory profit/(loss) including financial incentives and wash	n-uns	81,198	33.03%		
38	Total regulatory income	тирэ	245,842	33.03%		
39			2-3,042			
40 41	1(v): Reliability					
42	Interruption rate		14.86	Interruptions per	100 circuit km	

Company Name Orion New Zealand Limited
For Year Ended 31 March 2020

# **SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

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

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

sch ref	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	n 2.8.
7 8 9	2(i): Return on Investment  ROI – comparable to a post tax WACC	CY-2 31 Mar 18 %	CY-1 31 Mar 19 %	Current Year CY 31 Mar 20 %
10	Reflecting all revenue earned	6.83%	6.73%	7.27%
11	Excluding revenue earned from financial incentives	6.46%	6.42%	6.71%
12	Excluding revenue earned from financial incentives and wash-ups	6.43%	6.39%	6.71%
13				
14	Mid-point estimate of post tax WACC	5.04%	4.75%	4.27%
15	25th percentile estimate	4.36%	4.07%	3.59%
16	75th percentile estimate	5.72%	5.43%	4.95%
17				
18	POL comparable to a vanilla WACC			
19	ROI – comparable to a vanilla WACC	7.420/	7.240/	7 700/
20	Reflecting all revenue earned	7.42%	7.24%	7.70%
21 22	Excluding revenue earned from financial incentives	7.05%	6.93% 6.90%	7.13%
23	Excluding revenue earned from financial incentives and wash-ups	7.02%	6.90%	7.13%
24	WACC rate used to set regulatory price path	6.92%	6.92%	6.92%
25	7,			
26	Mid-point estimate of vanilla WACC	5.60%	5.26%	4.69%
27	25th percentile estimate	4.92%	4.58%	4.01%
28	75th percentile estimate	6.29%	5.94%	5.37%
29				
30	2(ii): Information Supporting the ROI		(\$000)	
31	Titul and in DAD only	4 000 524		
32 33	Total opening RAB value  plus Opening deferred tax	1,088,531 (44,559)		
34	plus Opening deferred tax  Opening RIV	(44,559)	1,043,972	
35	opening int	_	1,043,372	
36 37	Line charge revenue		242,435	
38	Expenses cash outflow	125,696		
39	add Assets commissioned	78,414		
40	less Asset disposals	1,074		
41	add Tax payments	18,694		
42	less Other regulated income	3,407		1
43	Mid-year net cash outflows	L	218,323	
44 45	Term credit spread differential allowance		766	
46				
47	Total closing RAB value	1,150,406		
48	less Adjustment resulting from asset allocation	(0)		
49	less Lost and found assets adjustment	- (40,502)		
50 51	plus Closing deferred tax  Closing RIV	(48,583)	1,101,823	
52	Closing Niv	<b>L</b>	1,101,823	
53	ROI – comparable to a vanilla WACC			7.70%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			3.61%
57	Corporate tax rate (%)			28%
58	ROL commonthis to a contain WACC			7.2704
59	ROI – comparable to a post tax WACC			7.27%
60				

Company Name	Orion New Zealand Limited
For Year Ended	31 March 2020

### **SCHEDULE 2: REPORT ON RETURN ON INVESTMENT**

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must

calcul	chedule requires information on the Return on invalue their ROI based on a monthly basis if required				•		
	be provided in 2(iii). must provide explanatory comment on their ROI ir	s Schedule 14 (Mandatory	Evolanatory Notes				
	inust provide explanatory comment on their NOT in Iformation is part of audited disclosure informatio			n), and so is subject to	the assurance rep	ort required by sectio	n 2.8.
sch ref	·				·	, ,	
61	2(iii): Information Supporting the	e Monthly ROI					
62							
63	Opening RIV						N/A
64							
65							
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	April	revenue	outnow	Commissioned	шэрозаіз	lincome	-
68	May						-
69	June						-
70	July						-
71	August						-
72	September						-
73	October						-
74	November						-
75	December					-	_
76 77	January Fobruary					<del> </del>	-
78	February March						_
79	Total	_	_	_	-	_	_
80							
81	Tax payments						N/A
82							
83	Term credit spread differential allow	wance					N/A
84							
85	Closing RIV						N/A
86							
87							
88	Monthly ROI – comparable to a vanilla	WACC					N/A
89	Manthly BOI common blacks a control	WACC					N/A
90 91	Monthly ROI – comparable to a post to	ax wacc					N/A
92	2(iv): Year-End ROI Rates for Cor	nnarison Purnoses	:				
93	Z(17). Tear End Nor Nates for Cor	iipaiisoii i ai poses					
94	Year-end ROI – comparable to a vanilla	a WACC					6.75%
95							
96	Year-end ROI – comparable to a post t	ax WACC					6.32%
97							
98	* these year-end ROI values are compa	rable to the ROI reported i	n pre 2012 disclosures b	y EDBs and do not rep	present the Commis	ssion's current view o	n ROI.
99	0/ ) = 1 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1						
100	2(v): Financial Incentives and Wa	asn-Ups					
101	Not account to a control to a	diamental collections	ii			4.633	ī
102 103	Net recoverable costs allowed under Purchased assets – avoided transmis	o a	live scneme			4,033 4,070	
103	Energy efficiency and demand incent					4,070	
105	Quality incentive adjustment	anowariee				_	
106	Other financial incentives					_	
107	Financial incentives						8,103
108							
109	Impact of financial incentives on ROI						0.57%
110							
111	Input methodology claw-back					_	
112	CPP application recoverable costs					_	
113	Catastrophic event allowance						
114	Capex wash-up adjustment	iont					
115	Transmission asset wash-up adjustm 2013–15 NPV wash-up allowance	enc				_	
116							
117	Reconsideration event allowance					_	

	Company Name Orion New Zealand Limited							
	For Year Ended	31 March 2020						
SC	HEDULE 2: REPORT ON RETURN ON INVESTMENT							
mus EDB This	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 re								
118 119	Other wash-ups  Wash-up costs							
120	·							
121	Impact of wash-up costs on ROI	-						

Company Name **Orion New Zealand Limited** For Year Ended 31 March 2020 **SCHEDULE 3: REPORT ON REGULATORY PROFIT** This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ret 3(i): Regulatory Profit (\$000) 8 Income 242,435 9 Line charge revenue 10 plus Gains / (losses) on asset disposals (801) 11 plus Other regulated income (other than gains / (losses) on asset disposals) 4,208 12 245,842 13 Total regulatory income 14 Expenses 15 less Operational expenditure 61,292 16 Pass-through and recoverable costs excluding financial incentives and wash-ups 64,404 17 18 19 Operating surplus / (deficit) 120,146 20 21 Total depreciation 43,007 22 23 27,543 Total revaluations plus 24 25 104,682 Regulatory profit / (loss) before tax 26 27 766 less Term credit spread differential allowance 28 29 Regulatory tax allowance 22,718 30 81,198 31 Regulatory profit/(loss) including financial incentives and wash-ups 32

3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups (\$000) 33 34 Pass through costs 35 4,112 Rates 36 Commerce Act levies 516 37 Industry levies 566 38 CPP specified pass through costs Recoverable costs excluding financial incentives and wash-ups 39 57,158 40 Electricity lines service charge payable to Transpower 41 2,053 Transpower new investment contract charges 42 System operator services 43 Distributed generation allowance 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 64,404

Company Name Orion New Zealand Limited								
	For Year Ended 31 March 2020							
SC	SCHEDULE 3: REPORT ON REGULATORY PROFIT							
thei	s schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sec ir regulatory profit in Schedule 14 (Mandatory Explanatory Notes). s information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assura		·					
	h ref							
48	3(iii): Incremental Rolling Incentive Scheme	(\$00	0)					
49	3(iii): Incremental Rolling Incentive Scheme	(\$00 CY-1 31 Mar 19	0) CY 31 Mar 20					
49 50	3(iii): Incremental Rolling Incentive Scheme  Allowed controllable opex	CY-1	CY					
49 50 51		CY-1 31 Mar 19	CY					
49 50 51 52	Allowed controllable opex	CY-1 31 Mar 19 58,854	CY 31 Mar 20					
48 49 50 51 52 53 54 55	Allowed controllable opex	CY-1 31 Mar 19 58,854	CY 31 Mar 20					

49				CY-1	CY
50			_	31 Mar 19	31 Mar 20
51	Allowed co	trollable opex		58,854	_
52	Actual cont	ollable opex		59,678	61,929
53					
54	Incrementa	change in year			_
55					
					Previous years'
				Previous years'	incremental
5.0				incremental	change adjusted
56	CV F	24.84 - 45	Г	change	for inflation
57	CY-5	31 Mar 15		4,081	4,397
58	CY-4	31 Mar 16		2,425	(1,772)
59	CY-3	31 Mar 17	-	(235)	(247)
60	CY-2 CY-1	31 Mar 18 31 Mar 19	-	1,600	1,656
61 62		tal rolling incentive scheme	L	(4,614)	4,033
63	Net increme	ai rolling incentive scheme			4,033
64	Not receivers	ele costs allowed under incremental rolling incentive	a cahama	į.	4,033
04	Net recovera	le costs allowed under incremental rolling incentive	scheme		4,055
65	3(iv): Merger ar	d Acquisition Expenditure			
70					(\$000)
66	Merger and	acquisition expenditure			_
67					
	Provide cor	mentary on the benefits of meraer and acquisition ex	spenditure to the electricity distribution business, including re	eauired disclosures i	n accordance with
68		in Schedule 14 (Mandatory Explanatory Notes)	,		
	2/\. Other Dies				
69	3(v): Other Disc	osures			
70				ī	(\$000)
71	Self-insurar	ce allowance			-

**Orion New Zealand Limited** Company Name 31 March 2020 For Year Ended 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) RAB RAB RAB 31 Mar 17 31 Mar 18 31 Mar 19 31 Mar 20 for year ended 31 Mar 16 (\$000) (\$000) (\$000) (\$000) (\$000) **Total opening RAB value** 907,756 986,595 1,004,182 1,051,194 1,088,531 37,063 12 less Total depreciation 38,762 43,007 14 plus Total revaluations 5,304 21,320 11,011 15,577 27,543 plus Assets commissioned 113,616 34,993 77,003 63,637 78,414 18 less Asset disposals 3,055 1,663 996 1,378 1,074 19 20 plus Lost and found assets adjustment 21 plus Adjustment resulting from asset allocation (1,245) 117 23 24 Total closing RAB value 1,004,182 1,051,194 1,088,531 1,150,406 25 4(ii): Unallocated Regulatory Asset Base Unallocated RAB \* 28 (\$000) (\$000) (\$000) (\$000) 29 1,089,677 1,088,531 Total opening RAB value 30 less Total depreciation 43,029 43,007 27.572 27.543 33 Total revaluations plus Assets commissioned (other than below) 54,118 54,118 Assets acquired from a regulated supplier 24.295 24.29 Assets acquired from a related party 38 78,414 78,414 Assets commissioned 39 40 Asset disposals (other than below) Asset disposals to a regulated supplier Asset disposals to a related party Asset disposals 1,074 1,074 plus Lost and found assets adjustment 46 47 plus Adjustment resulting from asset allocation 48 1.151.559 1.150.406 49 **Total closing RAB value** \* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

		Company Name	Orion New Zealand Limited
		For Year Ended	31 March 2020
SC	HEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)		
	s 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.		
	is 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 define	ed in section 1.4 of the ID deter	rmination), and so is subject to the assurance report
requ	uired by section 2.8.		
sch rej	d.		
ĺ			
51			
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets		
53			
54	CPI <sub>4</sub>		1,052
55	CPI <sub>4</sub> <sup>-4</sup>		1,026
56	Revaluation rate (%)		2.53%
57			
58		Unallocated R	
59		(\$000)	(\$000) (\$000) (\$000)
60	Total opening RAB value	1,089,677	1,088,531
61 62	less Opening value of fully depreciated, disposed and lost assets	1,653	1,653
63	Total opening RAB value subject to revaluation	1,088,024	1,086,878
64	Total revaluations	1,000,024	27,572 27,543
65			21,512
66	4(iv): Roll Forward of Works Under Construction		
		Unallocated work	ks under
67		construction	
68	Works under construction—preceding disclosure year		48,877 48,908
69	plus Capital expenditure	64,876	64,844
70	less Assets commissioned	78,414	78,414
71	plus Adjustment resulting from asset allocation		
72	Works under construction - current disclosure year		35,339 35,339
73			
74	Highest rate of capitalised finance applied		Nil
75			

										0.1		trd
								'	Company Name		New Zealand Li	mited
									For Year Ended		31 March 2020	
SCI	IEDULE 4	4: REPORT ON VALUE OF THE RE	GULATORY A	SSET BASE (	ROLLED FOR	WARD)						
EDBs		uires information on the calculation of the Regulator e explanatory comment on the value of their RAB in n 2.8.							ection 1.4 of the ID o	determination), and	so is subject to the a	ssurance report
ch ref												
7.0	4(v). Ba	egulatory Depreciation										
76 77	4(V). N	egulatory Depreciation							Unallocat	od PAP *	RA	D
78									(\$000)	(\$000)	(\$000)	(\$000)
79		Depreciation - standard							37,244	(5000)	37,244	(5000)
80		Depreciation - no standard life assets							5,785		5,763	
81		Depreciation - modified life assets							-		-	
82		Depreciation - alternative depreciation in accorda	ance with CPP						_		_	
83		Total depreciation								43,029		43,007
84											_	
85	4(vi): D	isclosure of Changes to Depreciation	Profiles						(\$000 u	ınless otherwise spe	ecified)	
86		Asset or assets with changes to depreciation*				Reaso	n for non-standard	depreciation (text	entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non- standard' depreciation	Closing RAB value under 'standard' depreciation
87		N/A										
88												
89												
90												
91												
92												
93												
94												
95		* include additional rows if needed										
96	4(vii): E	Disclosure by Asset Category										
97							(\$000 unless oth					
								Distribution				
98			Subtransmission lines	cables	Zone substations	Distribution and LV lines	Distribution and LV cables	substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
99		Total opening RAB value	64,479	83.342	129.673	119.033	357.689	121.450	124.460	32,963	55,441	1.088.531
100	less	Total depreciation	2,411	2,388	6,450	4,996	12,006	3,520	5,200	1,330	4,705	43,007
101	plus	Total revaluations	1,626	2,388	3,275	3,011	9,063	3,073	3,146	835	1,401	27,543
102	plus	Assets commissioned	3,703	2,869	13,500	6,030	22,555	9,685	13,902	2,022	4,149	78,414
103	less	Asset disposals	273	-	264	2		162	259	1	113	1,074
104	plus	Lost and found assets adjustment	_	_	-	_	_	-	-	_	-	-
105	plus	Adjustment resulting from asset allocation	_	_	_	_	_	_	_	_	_	_
106	plus	Asset category transfers	_	_	-	_	_	_	_	_	-	-
107		Total closing RAB value	67,124	85,935	139,735	123,076	377,301	130,525	136,049	34,489	56,172.4180	1,150,406
108												
109		Asset Life										
110		Weighted average remaining asset life	35.5	41.6	31.8	32.1	37.7	33.8	30.3	28.6	30.9	(years)
111		Weighted average expected total asset life	45.8	58.3	45.3	47.6	58.3	45.1	40.9	33.6	27.1	(years)

Company Name For Year Ended **Orion New Zealand Limited** 31 March 2020

(\$000)

#### 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 ret 5a(i): Regulatory Tax Allowance (\$000) Regulatory profit / (loss) before tax 104,682 8 9 10 Income not included in regulatory profit / (loss) before tax but taxable Expenditure or loss in regulatory profit / (loss) before tax but not deductible 226 11 12 Amortisation of initial differences in asset values 15,279 13 Amortisation of revaluations 4,923 20,428 14 15 27,543 16 less Total revaluations Income included in regulatory profit / (loss) before tax but not taxable 17 18 Discretionary discounts and customer rebates 19 Expenditure or loss deductible but not in regulatory profit / (loss) before tax 127 20 Notional deductible interest 16,303 21 43,972 22 23 Regulatory taxable income 81,137 24 25 Utilised tax losses 81,137 26 Regulatory net taxable income 27 28 28% Corporate tax rate (%) 29 22,718 Regulatory tax allowance

30

31

32 33

34 35

36

37

38

39

40

41

42

43

#### 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

358,748 Opening unamortised initial differences in asset values Amortisation of initial differences in asset values 15,279 less plus Adjustment for unamortised initial differences in assets acquired Adjustment for unamortised initial differences in assets disposed 661 less Closing unamortised initial differences in asset values 342,808 23 Opening weighted average remaining useful life of relevant assets (years)

<sup>\*</sup> Workings to be provided in Schedule 14

Company Name **Orion New Zealand Limited** 31 March 2020 For Year Ended 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. ch re 5a(iv): Amortisation of Revaluations (\$000) 44 45 46 Opening sum of RAB values without revaluations 990,682 47 48 Adjusted depreciation 38,084 49 Total depreciation 43,007 4,923 50 Amortisation of revaluations 51 5a(v): Reconciliation of Tax Losses (\$000) 52 53 54 Opening tax losses 55 Current period tax losses 56 Utilised tax losses 57 Closing tax losses 5a(vi): Calculation of Deferred Tax Balance (\$000) 58 59 (44,559) 60 Opening deferred tax 61 62 Tax effect of adjusted depreciation 10,664 63 64 Tax effect of tax depreciation 11,504 65 66 plus Tax effect of other temporary differences\* 1,077 67 Tax effect of amortisation of initial differences in asset values 4,278 68 less 69 70 Deferred tax balance relating to assets acquired in the disclosure year plus 71 72 Deferred tax balance relating to assets disposed in the disclosure year (17) less 73 74 Deferred tax cost allocation adjustment 0 plus 75 76 Closing deferred tax (48,583) 77 78 5a(vii): Disclosure of Temporary Differences In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary 79 differences). 80 5a(viii): Regulatory Tax Asset Base Roll-Forward 81 82 (\$000) 432,464 83 Opening sum of regulatory tax asset values 41,085 84 less Tax depreciation 74,257 85 plus Regulatory tax asset value of assets commissioned 86 Regulatory tax asset value of asset disposals 67 87 Lost and found assets adjustment 88 Adjustment resulting from asset allocation 89 Other adjustments to the RAB tax value 90 Closing sum of regulatory tax asset values 465,570

Company Name	Orion New Zealand Limited
For Year Ended	31 March 2020

	CHEDULE 5b: REPORT ON RELATED PAR			
		rty transactions, in accordance with clause 2.3.6 of the ID determin ned in clause 1.4 of the ID determination), and so is subject to the a		red by clause 2.8.
ch r	of .			
7	5b(i): Summary—Related Party Transacti	ons	(\$000)	(\$000)
8	Total regulatory income			2,650
9			Г	
0	Market value of asset disposals		L	
1 2	Service interruptions and emergencies		8,986	
3	Vegetation management		1,031	
4	Routine and corrective maintenance and ins	pection	4,711	
5	Asset replacement and renewal (opex)	•	569	
5	Network opex			15,297
7	Business support		286	
3	System operations and network support		75	
7	Operational expenditure			15,658
)	Consumer connection		3,968	
ı	System growth		3,776	
2	Asset replacement and renewal (capex)		10,628	
3	Asset relocations		1,417	
1	Quality of supply		61	
5	Legislative and regulatory Other reliability, safety and environment			
,	Expenditure on non-network assets			1
3	Expenditure on assets			19,86
,	Cost of financing			_
,	Value of capital contributions		-	11
!	Value of vested assets			_
2	Capital Expenditure			19,75
3	Total expenditure			35,409
4			F	
5	Other related party transactions		L	4,336
6	5b(iii): Total Opex and Capex Related Par	ty Transactions		
				Total value of
7	Name of related party	Nature of opex or capex service provided		transactions (\$000)
3	Connetics Limited			8,986
,	Connetics Limited  Connetics Limited	Service interruptions and emergencies  Vegetation management		- 0,380
,	Connetics Limited	Routine and corrective maintenance and inspection		4,688
	Connetics Limited	Asset replacement and renewal (opex)		569
	Connetics Limited	Business support		251
	Connetics Limited	System operations and network support		75
!	Connetics Limited	Consumer connection		3,968
,	Connetics Limited	System growth		3,776
5	Connetics Limited	Asset replacement and renewal (capex)	-	10,615
7	Connetics Limited	Asset relocations		1,314
3	Connetics Limited	Quality of supply		61
7	Connetics Limited	Expenditure on non-network assets		12
	Christchurch City Council	Asset replacement and renewal (capex)		12
	Christchurch City Council	Asset relocations		103
	Christchurch City Council	System growth		_
	Christchurch City Council	Expenditure on non-network assets		- 10
1	Christchurch City Council	Routine and corrective maintenance and inspection		
	Christchurch City Council Christchurch City Council	System operations and network support  Business support		35
	Christenuren city countil	очински зарроге		33

Routine and corrective maintenance and inspection

Selwyn District Council

Company Name
For Year Ended

NSACTIONS

Orion New Zealand Limited
31 March 2020

### **SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS**

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination.

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

SC	h	r	e	f

Selwyn District Council	Vegetation management	_
Selwyn District Council	Asset replacement and renewal (capex)	_
City Care Limited	Vegetation management	1,031
City Care Limited	System growth	_
City Care Limited	Asset replacement and renewal (capex)	1
City Care Limited	Routine and corrective maintenance and inspection	1
		_
Total value of related party transacti	ons	35,520

<sup>\*</sup> include additional rows if needed

								Company Name	Orion New Ze	aland Limited
								For Year Ended	31 Marc	ch 2020
SC	HEDULE	5c: REPORT ON TERM CREDIT SPREAD DIFFEREN	TIAL ALLOW	/ANCE				L		•
		only to be completed if, as at the date of the most recently published financial st					ing debt and non-qu	alifying debt) is great	ter than five years.	
This	information	is part of audited disclosure information (as defined in section 1.4 of the ID dete	rmination), and so	is subject to the ass	urance report requi	ired by section 2.8.				
sch re	f									
7										
8	5c(i): 0	Qualifying Debt (may be Commission only)								
9										
					0-1-114		Da ali iralii a at	Book value at date of financial	T C	Dalations and
10		Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
11		US Private Placement (USPP) 2018 Series A - NZD \$45m	12/9/2018	27/7/2018	10.0	BKBM + margin	45,000,000	45,000,000	168,750	(45,000)
12		US Private Placement (USPP) 2018 Series B - NZD \$95m	12/9/2018	27/7/2018	12.0	BKBM + margin	95,000,000	95,000,000	498,750	(110,833)
13										
14										
15		*:						140,000,000	667,500	(455,022)
16 17		* include additional rows if needed						140,000,000	667,500	(155,833)
18	5c(ii):	Attribution of Term Credit Spread Differential								
19				_		_				
20	G	ross term credit spread differential			511,667					
21										
22		Total book value of interest bearing debt	_	314,200,000						
23		Leverage		42%						
24		Average opening and closing RAB values	L	1,119,469	201					
25 26	A	ttribution Rate (%)		L	0%					
27	Т	erm credit spread differential allowance			766					

**Orion New Zealand Limited** Company Name 31 March 2020 For Year Ended 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. 5d(i): Operating Cost Allocations Value allocated (\$000s) Electricity Non-electricity Arm's length **OVABAA** allocation distribution distribution deduction services services increase (\$000s) Service interruptions and emergencies Directly attributable Not directly attributable 13 Total attributable to regulated service 9,355 Vegetation management Directly attributable 16 Not directly attributable 17 Total attributable to regulated service 4,397 18 Routine and corrective maintenance and inspection 19 11,819 Directly attributable 20 Not directly attributable 21 Total attributable to regulated service 11,819 22 Asset replacement and renewal 23 Directly attributable 1.820 24 Not directly attributable 25 1,820 Total attributable to regulated service System operations and network support Directly attributable 19,850 28 Not directly attributable Total attributable to regulated service 29 19,850 **Business support** Directly attributable 14,051 32 Not directly attributable 33 Total attributable to regulated service 14,051 34 35 Operating costs directly attributable Operating costs not directly attributable Operational expenditure

		Company Name	Orion New Zealand Limited
		For Year Ended	31 March 2020
SC	HEDULE 5d: REPORT ON COST ALLOCA	TIONS	_
		il costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory I ed in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	Notes), including on the impact of any reclassifications.
ch rej			
39	5d(ii): Other Cost Allocations		
40	Pass through and recoverable costs	(\$000)	
41	Pass through costs		
42	Directly attributable	5,193	
43	Not directly attributable		
44	Total attributable to regulated service	5,193	
45	Recoverable costs		
46	Directly attributable	59,211	
47	Not directly attributable	-	
48	Total attributable to regulated service	59,211	
49			
50	5d(iii): Changes in Cost Allocations* †		
51			(\$000)
52	Change in cost allocation 1		CY-1 Current Year (CY)
53	Cost category	Original allocation	
54	Original allocator or line items	New allocation	
55	New allocator or line items	Difference	
56			
57	Rationale for change		
58			
59			
60			(\$000)
61	Change in cost allocation 2		CY-1 Current Year (CY)
62	Cost category	Original allocation	
63	Original allocator or line items	New allocation	
64	New allocator or line items	Difference	
65	Dationals for shores		
66 67	Rationale for change		
68			
69			(\$000)
70	Change in cost allocation 3		CY-1 Current Year (CY)
71	Cost category	Original allocation	(-,
72	Original allocator or line items	New allocation	
73	New allocator or line items	Difference	
74			
75	Rationale for change		
76			
77			
78		ost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in	allocator or component.
79	† include additional rows if needed		

		Company Name	Orion	New Zealand Limited
		For Year Ended		31 March 2020
	HEDULE 5e: REPORT ON ASSET ALLOCA			
		. This information supports the calculation of the RAB value in Schedule 4. Schedule 14 (Mandatory Explanatory Notes), including on the impact of any	changes in asset allocat	tions. This information is part of audited
		ation), and so is subject to the assurance report required by section 2.8.		
ch re	f			
7	5e(i): Regulated Service Asset Values			
8			Value allocated (\$000s)	
			Electricity distribution	
9			services	
10	Subtransmission lines		67.424	
11 12	Directly attributable  Not directly attributable		67,124	
13	Total attributable to regulated service		67,124	
14	Subtransmission cables			
15	Directly attributable		85,935	
16	Not directly attributable		-	
17	Total attributable to regulated service		85,935	
18	Zone substations			
19 20	Directly attributable  Not directly attributable		139,735	
21	Total attributable to regulated service		139,735	
22	Distribution and LV lines			
23	Directly attributable		123,076	
24	Not directly attributable		-	
25	Total attributable to regulated service		123,076	
26	Distribution and LV cables			
27	Directly attributable  Not directly attributable		377,301	
28 29	Total attributable to regulated service		377,301	
30	Distribution substations and transformers		5.1,552	
31	Directly attributable		130,525	
32	Not directly attributable		_	
33	Total attributable to regulated service		130,525	
34	Distribution switchgear			
35 36	Directly attributable		136,049	
37	Not directly attributable  Total attributable to regulated service		136,049	
38	Other network assets		130,045	
39	Directly attributable		34,489	
40	Not directly attributable		1	
41	Total attributable to regulated service		34,489	
42	Non-network assets		,	
43	Directly attributable		47,249	
44 45	Not directly attributable  Total attributable to regulated service		8,923 56,172	
46	Total attributable to regulated service		30,172	
47	Regulated service asset value directly attributable		1,141,483	
48	Regulated service asset value not directly attributa	ole	8,923	
49 50	Total closing RAB value		1,150,406	
30				
51	5e(ii): Changes in Asset Allocations* †			
52				(\$000)
53	Change in asset value allocation 1		Original all 11	CY-1 Current Year (CY)
54 55	Asset category Original allocator or line items		Original allocation  New allocation	
56	New allocator or line items		Difference	
57				
58	Rationale for change			
59 60				
61				(\$000)
62	Change in asset value allocation 2			CY-1 Current Year (CY)
63	Asset category		Original allocation	
64	Original allocator or line items		New allocation	
65	New allocator or line items		Difference	
66 67	Rationale for change			
68				
69				
70				(\$000)
71	Change in asset value allocation 3		Osisias I alla satias	CY-1 Current Year (CY)
72 73	Asset category Original allocator or line items		Original allocation  New allocation	
74	New allocator or line items		Difference	
75				
76	Rationale for change			
77 78				
79	* a change in asset allocation must be completed for each	allocator or component change that has occurred in the disclosure year. A r	movement in an allocate	or metric is not a change in allocator or comp
80	† include additional rows if needed	, , , , , , , , , , , , , , , , , , ,		

**Orion New Zealand Limited** Company Name 31 March 2020 For Year Ended 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(i): Expenditure on Assets (\$000) (\$000) Consumer connection System growth 13,521 10 Asset replacement and renewal 33,238 11 Asset relocations 1,561 12 Reliability, safety and environment: 13 Quality of supply 146 14 Legislative and regulatory 15 Other reliability, safety and environment 189 16 Total reliability, safety and environment 17 **Expenditure on network assets** 64.108 18 Expenditure on non-network assets 4,310 20 Expenditure on assets 68,418 21 plus Cost of financing 22 less Value of capital contributions 3,574 23 Value of vested assets 24 25 Capital expenditure 64,844 6a(ii): Subcomponents of Expenditure on Assets (where known) 26 27 Energy efficiency and demand side management, reduction of energy losses Overhead to underground conversion 1,434 28 29 Research and development 6a(iii): Consumer Connection 30 31 (\$000) Consumer types defined by EDB\* (\$000) 32 Subdivisions 3.903 33 34 ieneral connections 35 witchgear 36 832 Transformers 37 include additional rows if needed 15,598 38 39 Consumer connection expenditure 40 Capital contributions funding consumer connection expenditure 1,372 41 Consumer connection less capital contributions 14,226 Asset 42 6a(iv): System Growth and Asset Replacement and Renewal Replacement and System Growth Renewal 43 (\$000) (\$000) 45 Subtransmission 1,957 46 Zone substations 3,341 3,474 47 Distribution and LV lines 1.403 5.564 48 Distribution and LV cables 3,310 9,445 49 Distribution substations and transformers 50 Distribution switchgear 6,090 51 Other network assets 52 System growth and asset replacement and renewal expenditure 13,521 33,238 53 Capital contributions funding system growth and asset replacement and renewal 12.587 33.206 54 System growth and asset replacement and renewal less capital contributions 55 6a(v): Asset Relocations 57 Project or programme (\$000) (\$000) 58 NZTA and others 59 CERA/SCIRT/Otakaro (Rebuild) 114 60 Christchurch City Council 62 Others \* include additional rows if needed 63 64 All other projects or programmes - asset relocations 1.561 65 Asset relocations expenditure 66 Capital contributions funding asset relocations 1.236 67 Asset relocations less capital contributions

**Orion New Zealand Limited** Company Name 31 March 2020 For Year Ended SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. sch ref 68 6a(vi): Quality of Supply 69 (\$000) (\$000) Project or programme 71 Rural township reliability improvements 72 rankleigh St Reinforcement 73 74 75 76 \* include additional rows if needed 77 All other projects programmes - quality of supply 78 Quality of supply expenditure 146 79 Capital contributions funding quality of supply 146 80 Quality of supply less capital contributions 6a(vii): Legislative and Regulatory 81 82 Project or programme\* (\$000) (\$000) 83 No projects with this as the primary driver 84 85 86 87 88 \* include additional rows if needed 89 All other projects or programmes - legislative and regulatory 90 Legislative and regulatory expenditure 91 Capital contributions funding legislative and regulatory less 92 Legislative and regulatory less capital contributions 6a(viii): Other Reliability, Safety and Environment 93 94 Project or programme\* (\$000) (\$000) 95 100V UG Supply Fuse Relocation Program 96 97 98 99 100 \* include additional rows if needed 101 All other projects or programmes - other reliability, safety and environment 102 Other reliability, safety and environment expenditure 43 103 Capital contributions funding other reliability, safety and environment 104 Other reliability, safety and environment less capital contributions 43 105 106 6a(ix): Non-Network Assets 107 Routine expenditure 108 (\$000) Project or programme (\$000) 109 Vehicles and mobile plant 110 Information solutions 111 Sundry tools and equipment 466 112 indry land and buildings 113 114 \* include additional rows if needed 115 All other projects or programmes - routine expenditure 4,310 116 Routine expenditure 117 **Atypical expenditure** 118 Project or programme\* (\$000) (\$000) 119 121 122 123 124 \* include additional rows if needed 125 All other projects or programmes - atypical expenditure 126 Atypical expenditure 127 128 Expenditure on non-network assets 4,310

Company Name Orion New Zealand Limited
For Year Ended 31 March 2020

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

This schedule requires a breakdown of operational expenditure incurred in the disclosure year.

EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

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

sch r	ef		
7	6b(i): Operational Expenditure	(\$000)	(\$000)
8	Service interruptions and emergencies	9,355	
9	Vegetation management	4,397	
10	Routine and corrective maintenance and inspection	11,819	
11	Asset replacement and renewal	1,820	
12	Network opex		27,391
13	System operations and network support	19,850	
14	Business support	14,051	
15	Non-network opex		33,901
16		_	
17	Operational expenditure	[	61,292
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	Energy efficiency and demand side management, reduction of energy losses		_
20	Direct billing*		_
21	Research and development		_
22	Insurance		2,132
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name

Orion New Zealand Limited 31 March 2020

Actual (\$000)

% variance

Target (\$000) 1

For Year Ended

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.

sc	ch	re	ef
----	----	----	----

31

37

38 39

40

41

42 43 **Operational expenditure** 

7(i): Revenue

,	7(1). Hevende		(,,,,,,	,
8	Line charge revenue	244,970	242,435	(1%)
9	7(ii): Expenditure on Assets	Forecast (\$000) <sup>2</sup>	Actual (\$000)	% variance
10	Consumer connection	12,669	15,598	23%
11	System growth	17,799	13,521	(24%)
12	Asset replacement and renewal	32,064	33,238	4%
13	Asset relocations	1,288	1,561	21%
14	Reliability, safety and environment:			
15	Quality of supply	554	146	(74%)
16	Legislative and regulatory	_	_	-
17	Other reliability, safety and environment	_	43	-
18	Total reliability, safety and environment	554	189	(66%)
19	Expenditure on network assets	64,374	64,108	(0%)
20	Expenditure on non-network assets	5,433	4,310	(21%)
21	Expenditure on assets	69,807	68,418	(2%)
22	7(iii): Operational Expenditure			
23	Service interruptions and emergencies	8,990	9,355	4%
24	Vegetation management	3,950	4,397	11%
25	Routine and corrective maintenance and inspection	13,140	11,819	(10%)
26	Asset replacement and renewal	2,115	1,820	(14%)
27	Network opex	28,195	27,391	(3%)
28	System operations and network support	20,161	19,850	(2%)
29	Business support	18,093	14,051	(22%)
30	Non-network opex	38,254	33,901	(11%)

# 7(iv): Subcomponents of Expenditure on Assets (where known)

Energy efficiency and demand side management, reduction of energy losses
Overhead to underground conversion
Research and development

_	N/A	-
1,288	1,434	11%
_	N/A	_

66,449

61,292

(8%

#### 7(v): Subcomponents of Operational Expenditure (where known)

Energy efficiency and demand side management, reduction of energy losses
Direct billing
Research and development
Insurance

_	-	-
_	_	-
_	-	-
2,065	2,132	3%

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

<sup>2</sup> 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)

	the billed quantities and associa	ated line charge revenues for each	price category code used by the EE	OB in its pricing schedules. In	formation is also required o	on the number of ICPs that are inc	luded in each consun	ner group or price category	code, and the ener	gy delivered to these	ICPs.							
): Billed																		
): Billed																		
	d Quantities by Price	Component																
									Billed quantities by	price component		Streetlighting/	Streetlighting/			Irrigation		т
								Brico component	Streetlighting	General	Streetlighting/ general	general/irrigation	general/irrigation	General Low power factor	Irrigation	Power factor	Irrigation Interruptibility	Þ
								Price component	Fixed charge (STFXD)	Fixed charge (GENFXD)	Peak charge	Weekday day volume	Night and weekend	charge	Capacity charge (ICCAP)	correction capacitance	rebate	
											(GENPK)	(VOLWD)	(VOLNW)	(LOWPF)		(ICPFC)	(ICIRR)	L
							Unit charging basis	eg, days, kW of demand,										
Co	onsumer group name or price	Consumer type or types (eg,	Standard or non-standard	Average no. of ICPs in	Energy delivered to ICPs			apacity, etc.)	Connection	Connection	kW	kWh	kWh	kVAr	kW	kVAr	kW	
	category code	residential, commercial etc.)	consumer group (specify)	disclosure year	in disclosure year (MWh)													L
LIG	G	Streetlighting	Standard	519					49,470									Т
GEN	EN	Residential and commercial	Standard	203,890	2,334,348				,470	201,038	471,164	1,127,677,921	1,310,173,647	-				t
IRR	R	Commercial irrigation	Standard	1,073											77,130	25,426	49,885	
MC		Large commercial and industrial Large capacity	Standard Non-standard	503	802,821													+
LCC		Large Capacity	[Select one]	15	138,772													+
			[Select one]															
			[Select one]															
			[Select one]															╀
Ada			[Sciece one]															_
	dd extra rows for additional con	sumer groups or price category cod																_
	dd extra rows for additional con	sumer groups or price category cod	es as necessary Standard consumer totals	205,985	3,137,169				49,470	201,038	471,164	1,127,677,921	1,310,173,647	-	77,130	25,426	49,885	L
	dd extra rows for additional con	sumer groups or price category cod	es as necessary	205,985 15 206,000	3,137,169 138,772 3,275,941				49,470 - 49,470	201,038 - 201,038	471,164 - 471,164	1,127,677,921 - 1,127,677,921	1,310,173,647 - 1,310,173,647	- - -	77,130 - 77,130	25,426 - 25,426	49,885 - 49,885	T
			es as necessary Standard consumer totals Non-standard consumer totals Total for all consumers	15	138,772				-	-	-	-	-		-	-	-	
		Jaumer groups or price category cod	es as necessary Standard consumer totals Non-standard consumer totals Total for all consumers	15	138,772				49,470 Line charge revenu	- 201,038 es (\$000) by price co General		1,127,677,921  Streetlighting/ general/irrigation	- 1,310,173,647 Streetlighting/ general/irrigation	General Low power factor	- 77,130	25,426  Irrigation Power factor	Irrigation	м
			es as necessary Standard consumer totals Non-standard consumer totals Total for all consumers	15	138,772			Price component	49,470	201,038	471,164  mponent  Streetlighting/	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume	- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend	- - General	- 77,130	Irrigation Power factor correction capacitance	49,885	M
			es as necessary Standard consumer totals Non-standard consumer totals Total for all consumers	15	138,772				49,470 Line charge revenu Streetlighting Fixed charge	es (\$000) by price co General Fixed charge	471,164  mponent  Streetlighting/ general Peak charge	1,127,677,921  Streetlighting/ general/irrigation Weekday day	1,310,173,647  Streetlighting/ general/irrigation Night and	General Low power factor charge	- 77,130  Irrigation Capacity charge	25,426  Irrigation Power factor correction	49,885	M
(ii): Line (	· Charge Revenues (\$0	00) by Price Component	es on necessary Standard consumer totals, Non-standard consumer totals Total for all consumers .	15 206,000	138,772 3,275,941 Notional revenue	Total distribution	Total transmission line charge	Price component  Rate (eg, \$ per day, \$ per	49,470  Line charge revenu  Streetlighting Fixed charge (STFXD)	es (\$000) by price co General Fixed charge (GENFXD)	471,164  mponent  Streetlighting/ general Peak charge (GENPK)	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume (VOLWD)		General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)	Irrigation Power factor correction capacitance (ICPPC)	Irrigation Interruptibility rebate (ICIRR)	M
(ii): Line (	Charge Revenues (\$0	100) by Price Component  Consumer type or types (eg.	es os necessarios consumer totals. Non-standard consumer totals. Total for all consumers.	15 206,000  Total line charge revenue	138,772 3,275,941  Notional revenue foregone from posted	line charge	line charge revenue (if	Price component	49,470 Line charge revenu Streetlighting Fixed charge	es (\$000) by price co General Fixed charge	471,164  mponent  Streetlighting/ general Peak charge	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume	- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend	General Low power factor charge	- 77,130  Irrigation Capacity charge	Irrigation Power factor correction capacitance	49,885	м
ii): Line (	· Charge Revenues (\$0	00) by Price Component	es on necessary Standard consumer totals, Non-standard consumer totals Total for all consumers .	15 206,000	138,772 3,275,941 Notional revenue		line charge	Price component  Rate (eg, \$ per day, \$ per	49,470  Line charge revenu  Streetlighting Fixed charge (STFXD)	es (\$000) by price co General Fixed charge (GENFXD)	471,164  mponent  Streetlighting/ general Peak charge (GENPK)	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume (VOLWD)		General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)	Irrigation Power factor correction capacitance (ICPPC)	Irrigation Interruptibility rebate (ICIRR)	
ii): Line ( Co	Charge Revenues (\$0  Consumer group name or price category code	000) by Price Component  Consumer type or types (eg. residential, commercial etc.)  Streetlighting	es as necessary Standard consumer totals, Non-standard consumer totals Total for all consumers  Standard or non-tandard consumer or one-tandard or non-tandard consumer group (specify)	Total line charge revenue in disclosure year	138,772 3,275,941  Notional revenue foregone from posted	line charge revenue	line charge revenue (if available)	Price component  Rate (eg, \$ per day, \$ per	49,470  Line charge revenu  Streetlighting Fixed charge (STFXD)	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)	Irrigation Power factor correction capacitance (ICPPC)	Irrigation Interruptibility rebate (ICIRR)	M
ii): Line ( Co	Charge Revenues (\$0  Consumer group name or price category code  Consumer Strong Code  Code Code Code Code Code Code Code Code	000) by Price Component  Consumer type or types (eg. residential, commercial etc.)  Streedlighting Residential and commercial	es or increasing Standard consumer totals Non-tundard consumer totals Total for all consumers  Standard or non-tandard consumer group (specify)  Standard Standard Standard	Total line charge revenue in disdosure year \$2.051 \$193.855	138,772 3,275,941  Notional revenue foregone from posted	\$2,120 \$147,852	line charge revenue (if available) (\$69) \$46,003	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)	471,164  mponent  Streetlighting/ general Peak charge (GENPK)	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume (VOLWD)		General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	м
ii): Line ( Co	Charge Revenues (\$0  consumer group name or price category code  G	000) by Price Component  Consumer type or types (eg. residential, commercial etc.)  Streetlighting	es as necessary Standard consumer totals, Non-standard consumer totals Total for all consumers  Standard or non-tandard consumer totals consumer group (specify)	Total line charge revenue in disclosure year \$2,051 \$193,855 \$5,841	138,772 3,275,941  Notional revenue foregone from posted	\$2,120 \$147,852 \$4,522	line charge revenue (if available) (\$69) \$46,003 \$889	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)	Irrigation Power factor correction capacitance (ICPPC)	Irrigation Interruptibility rebate (ICIRR)	м
Co  LIG  GEN  IRR	Charge Revenues (\$0  consumer group name or price category code  G	Consumer type or types (eg. residential, commercial etc.)  Streetighting  Residential and commercial  Commercial ringston	es or necessary  Standard consumer totals  Non-standard consumer totals  Total for all consumers  Standard or non-standard  consumer group (specify)  Standard  Standard	Total line charge revenue in disdosure year \$2.051 \$193.855	138,772 3,275,941  Notional revenue foregone from posted	\$2,120 \$147,852	line charge revenue (if available) (\$69) \$46,003	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	M
Co  LIG  GEN  IRR	Charge Revenues (\$0  consumer group name or price category code  G	Consumer type or types (egresidential, commercial etc.) Streetlighting Streetlighting Commercial and industrial	es on increasing Standard consumer totals Non-standard consumer totals Total for all consumers  Standard or non-standard consumer group (specify)  Standard Standard Standard Standard Standard Standard Standard Non-standard Non-standard Non-standard Non-standard Non-standard Non-standard	Total line charge revenue in disclosure year \$12,051	138,772 3,275,941  Notional revenue foregone from posted	S2,120   S147,852   S4,522   S23,981	line charge revenue (if available) (\$69) \$46,003 \$889 \$12,748	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	M
Co  LIG  GEN  IRR	Charge Revenues (\$0  consumer group name or price category code  G	Consumer type or types (egresidential, commercial etc.) Streetlighting Streetlighting Commercial and industrial	es or secessory  Standard consumer totals  Non-translard consumer totals  Total for all consumers  Standard or non-standard consumer group (specify)  Standard	Total line charge revenue in disclosure year \$12,051	138,772 3,275,941  Notional revenue foregone from posted	S2,120   S147,852   S4,522   S23,981	line charge revenue (if available) (\$69) \$46,003 \$889 \$12,748	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	M
Co  LIG  GEN  IRR	Charge Revenues (\$0  consumer group name or price category code  G	Consumer type or types (egresidential, commercial etc.) Streetlighting Streetlighting Commercial and industrial	es as necessary Sandard consumer totals Non-standard consumer totals Total for all consumers  Standard or non-standard consumer group (specify)  Standard Sandard	Total line charge revenue in disclosure year \$12,051	138,772 3,275,941  Notional revenue foregone from posted	S2,120   S147,852   S4,522   S23,981	line charge revenue (if available) (\$69) \$46,003 \$889 \$12,748	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	N
Co  LIG  GEN  IRR	Charge Revenues (\$0  consumer group name or price category code  G	Consumer type or types (egresidential, commercial etc.) Streetlighting Streetlighting Commercial and industrial	es or secessory  Standard consumer totals  Non-translard consumer totals  Total for all consumers  Standard or non-standard consumer group (specify)  Standard	Total line charge revenue in disclosure year \$12,051	138,772 3,275,941  Notional revenue foregone from posted	S2,120   S147,852   S4,522   S23,981	line charge revenue (if available) (\$69) \$46,003 \$889 \$12,748	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	N
Co	Charge Revenues (\$0  consumer group name or price category code  G  EN  R  CCC	Consumer type or types (egresidential, commercial etc.) Streetlighting Streetlighting Commercial and industrial	es as necessary Sandard consumer totals Non-standard consumer totals Total for all consumers  Standard or non-standard consumer group (specify)  Sandard	15 266,000  Total line charge revenue in disclosure year \$2,051 5138,355 55,411 338,729 54,388	138,772 3,275,941  Notional revenue foregone from posted	S2,120   S147,852   S4,522   S23,981	line charge revenue (if available) (\$69) \$46,003 \$889 \$12,748	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		- 1,310,173,647  Streetlighting/ general/rrigation Night and weekend (VOLNW)  \$/kWh	General Low power factor charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor correction capacitance (ICPPC) S/kVAr/day	trrigation Interruptibility rebate (ICIRR)	N
Co	Charge Revenues (\$0  consumer group name or price category code  G  EN  R  CCC	Consumer type or types (eg. residential, commercial etc.)  Streetlighting Residential and commercial Commercial irrigation Large commercial and industrial Large capacity	es as necessary Standard consumer totals Non-standard consumer totals Total for all consumers  Standard or non-standard consumer totals Consumer group (specify)  Standard Sta	15 206,000  Total line charge revenue in disclosure year  \$2,051 \$193,855 \$5,411 \$58,729 \$4,388 \$	138,772 3.275,941  Notional revenue foregone from posted discounts (if applicable)	line charge revenue  \$2,120 \$147,832 \$45422 \$23,981 \$27,105	line charge revenue (if available) (569) 546,003 5889 512,748 52,283	Price component  Rate (eg, \$ per day, \$ per	49,470 Line charge revenu Streetlighting Fixed charge (STFXD) S/conn/day	es (\$000) by price co General Fixed charge (GENFXD)  \$/conn/day	471,164  mponent  Streetlighting/ general Peak charge (GENPK)  S/kW/day		1,310,173,647  Streetlighting/ general/rigation Nght and weekend (VOLWW)  5/kWh  523,557	General Loss power factor Charge (LOWPF)	- 77,130  Irrigation Capacity charge (ICCAP)  S/kW/day	25,426  Irrigation Power factor capacitance (SNAA/day  (\$817)	49,885  Irrigation Interruptibility (CIRR)  5/kW/day	
Co	Charge Revenues (\$0  consumer group name or price category code  G  EN  R  CCC	Consumer type or types (eg. residential, commercial etc.)  Streetlighting Residential and commercial Commercial irrigation Large commercial and industrial Large capacity	so as necessary  Standard consumer totals  Non-standard consumer totals  Total for all consumers  Standard or non-standard  Consumer group (specify)  Standard  Standa	15 206,000  Total line charge revenue in disclosure year 52,051 5183,855 55,411 538,752 54,388	138,772 3,275,941  Notional revenue foregone from posted	line charge revenue  \$2,120   \$14,7852   \$4,5523   \$5,5523   \$5,105	line charge revenue (if available)  (560)  \$46,003  \$889  \$12,748  \$52,283	Price component  Rate (eg, \$ per day, \$ per	49,470  Une charge revenu Streetlighting Fire (STEXO)  \$/conn/day	201,038  201,038  201,038  Ees (5000) by price co General Fixed charge (GENYXD)  5/conn/day	471,164  wponent  Streetlighting/general Peak charge (GENPK)  \$/kW/day  \$74,034	1,127,677,921  Streetlighting/ general/irrigation Weekday day volume (VOLWD)  5/EWh	1,310,173,647  Streetlighting/ Streetlighting/ Streetlighting/ Streetlighting/ Sylvania weekend (VOLNW) 5/KWh	General Low power factor charge (LOWPF)	77,130  Irrigation Capacity charge (ICCAP) \$/kW/day	25,426  Irrigation Power factor correction capacitance (ICPC) \$\frac{1}{5}\text{RVM/day}\$	49,885  Irrigation Interruptibility rebate (CRR) \$/kW/day  (\$401	

Company Name	Orion New Zealand Limited
For Year Ended	31 March 2020
Network / Sub-Network Name	Entire network

	ı					1						1							r		7
lajor customer Extra switches (EQESW)	Major customer 11kV Metering equipment (EQMET)	Major customer 11kV Underground cabling (EQUGC)	Major customer 11kV Overhead lines (EQOHL)	Major customer Transformer capacity (EQTFC)	Major customer Peak charge (MCCPD)	Major customer Nominated maximum demand (MCNMD)	Major customer Metered maximum demand (MCMMD)	Large capacity Operations, maintenance & administration (dedicated assets)	Large capacity Operations, maintenance & administration (shared assets)	Large capacity Asset charge (dedicated assets)	Large capacity Asset charge (shared assets)	Large capacity Interconnection charge (winter)	Large capacity Interconnection charge (summer)	Connection charge	Customer investment contract charge	30 - 750 kW generators Control period export (EXPCP1)	30 - 750 kW generators Control period export (EXPCP2)	Monthly invoice charge (INVFXD)	Failure to pay notice (INVFTP)	Default and termination notice (INVDAT)	2
Switches	Connection	km	km	kVA	kVA	kVA	kVA	kVA	kVA	kVA	kVA	kVA	kVA	kva	kVA	kW	kVAr	Invoice	Notice	Notice	Add extra colur for additiona billed quantitie: price compone as necessary
																					]
																97	32	319	4	1	+
103	42	7	3	327,781	108,145	258,547	227,303									438	122	108			
			-		-		-	35,000	32,670	35,000	32,670	7,647	21,619	21,619	16,000						
																					+
																					+
													l								1
103		7	3	327,781	108,145		227,303		-	-	-	-	-	-	-	539			4	1	I
103 - 103	-	7 - 7	3 - 3	327,781 - 327,781	108,145 - 108,145	258,547 — 258,547	227,303 - 227,303	35,000	- 32,670 32,670		- 32,670 32,670	- 7,647 7,647		21,619	- 16,000 16,000	539 - 539	1	-	-	1	<u> </u>
103	42 Major customer	7	- 3	- 327,781 Major customer	108,145	258,547	227,303	35,000 35,000 Large capacity Operations,	32,670 32,670 Large capacity Operations,	35,000 35,000 Large capacity	32,670 32,670 Large capacity	7,647 7,647 Large capacity	21,619 21,619 Large capacity	21,619 21,619	16,000 16,000	- 539 30 - 750 kW generators	- 153 30 - 750 kW generators	427  Monthly invoice	4 Failure to pay	1 1 1 1 Default and	
- 103	42	7	3	- 327,781	- 108,145			35,000 35,000	32,670 32,670 Large capacity	35,000 35,000	32,670 32,670	7,647 7,647	21,619 21,619	21,619	16,000 16,000	- 539 30 - 750 kW	- 153 30 - 750 kW	427	4	Default and termination notice (INVDAT)	
103  103  jor customer tra switches (EQESW)	Major customer 11kV Metering equipment	Major customer 11kV Underground cabling	Major customer 11kV Overhead lines	Major customer Transformer capacity	108,145  Major customer Peak charge	— 258,547  Major customer Nominated maximum demand	— 227,303  Major customer Metered maximum demand	35,000 35,000 Large capacity Operations, maintenance & administration	32,670 32,670 Large capacity Operations, maintenance & administration	35,000 35,000 Large capacity Asset charge	32,670 32,670 Large capacity Asset charge	7,647 7,647 Large capacity	21,619 21,619 Large capacity	21,619 21,619	16,000 16,000 Customer investment	30 - 750 kW generators Control period export	30 - 750 kW generators Control period export	427  Monthly invoice charge	Failure to pay notice	termination notice	for addition charge rev by pric compone
or customer ra switches	Major customer 11kV Metering equipment (EQMET)	Major customer 11kV Underground cabling (EQUGC)	Major customer 11kV Overhead lines (EQOHL)	Major customer Transformer capacity (EQTFC)	Major customer Peak charge (MCCPD)	258,547  Major customer Nominated maximum demand (MCNMD)	— 227,303  Major customer Metered maximum demand (MCMMD)	35,000 35,000 Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 Large capacity Operations, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets)	32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity Interconnection charge (winter)	21,619 21,619 Large capacity Interconnection charge (summer)	21,619 21,619 Connection charge	16,000 16,000 Customer investment contract charge	30 - 750 kW generators Control period export (EXPCP1)	30 - 750 kW generators Control period export (EXPCP2) S/kVAr/yr	Monthly invoice charge (INVFXD)	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for addition charge rev by pric compone
103	Major customer 11kV Metering equipment (EQMET)	Major customer 11kV Underground cabling (EQUGC)	Major customer 11kV Overhead lines (EQOHL)	Major customer Transformer capacity (EQTFC)	Major customer Peak charge (MCCPD)	258,547  Major customer Nominated maximum demand (MCNMD)	— 227,303  Major customer Metered maximum demand (MCMMD)	35,000 35,000 Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 Large capacity Operations, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets)	32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity Interconnection charge (winter)	21,619 21,619 Large capacity Interconnection charge (summer)	21,619 21,619 Connection charge	16,000 16,000 Customer investment contract charge	30 - 750 kW generators Control period export (EXPCP1) S/kW/yr	30-750 kW generators Control period export (£XPP2)	Monthly invoice charge (INVFXD)	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for addition charge reve by pric componer
103  103  jor customer tra switches (EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)	Major customer 11kV Overhead lines (EQOHL)	Major customer Transformer capacity (EQTFC)	Major customer Peak charge (MCCPD)		— 227,303  Major customer Metered maximum demand (MCMMD)	Large capacity Operations, maintenance & administration (dedicated assets) S/kVA/day	32,670 32,670 Large capacity Operations, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets)	32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity Interconnection charge (winter)	21,619 21,619 Large capacity Interconnection charge (summer)	21,619 21,619 Connection charge	16,000 16,000 Customer investment contract charge	30 - 750 kW generators Control period export (EXPCP1)	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for addition charge rev by pric compone
or customer ra switches (EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)  \$/km/day	- 3 Major customer 11k/ Overhead lines (EQOHL) \$/km/day	— 327,781  Major customer Transformer capacity (EQTFC)  \$\frac{1}{5}\frac{1}{kVA}\day	108,145		227,303  Major customer Metered maximum demand (MCMMD)  \$\int \lambda \text{NVA/day}	Large capacity Operations, maintenance & administration (dedicated assets) S/kVA/day	32,670 32,670 Large capacity Operations, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets) S/kVA/day	32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity Interconnection charge (winter)	21,659 21,659 Large capacity interconnection charge (summer)	21,619 21,619 Connection charge S/kVA/day	16,000 16,000 Customer investment contract charge	30 - 750 kW generators (EXPCP1) S/AW/yr	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)  S/Invoice	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for additio charge re- by pri compone
or customer a switches EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)  \$/km/day	- 3 Major customer 11k/ Overhead lines (EQOHL) \$/km/day	— 327,781  Major customer Transformer capacity (EQTFC)  \$\frac{1}{5}\frac{1}{kVA}\day	108,145		227,303  Major customer Metered maximum demand (MCMMD)  5/kvA/day	Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 32,670 Large capacity, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets) S/kVA/day	32,670 32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity interconnection charge (winter) S/WA/day	21,659 21,659 Large capacity interconnection charge (summer)	21,619 21,619 Connection charge S/kVA/day	16,000 16,000 Customer investment contract charge S/kVA/day	30 - 750 kW generators (EXPCP1) S/AW/yr	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)  S/Invoice	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for additional charge results by processing components of the comp
or customer ra switches EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)  \$/km/day	- 3 Major customer 11k/ Overhead lines (EQOHL) \$/km/day	— 327,781  Major customer Transformer capacity (EQTFC)  \$\frac{1}{5}\frac{1}{kVA}\day	108,145		227,303  Major customer Metered maximum demand (MCMMD)  5/kvA/day	Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 32,670 Large capacity, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets) S/kVA/day	32,670 32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity interconnection charge (winter) S/WA/day	21,659 21,659 Large capacity interconnection charge (summer)	21,619 21,619 Connection charge S/kVA/day	16,000 16,000 Customer investment contract charge S/kVA/day	30 - 750 kW generators (EXPCP1) S/AW/yr	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)  S/Invoice	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for additional charge results by processing components of the comp
ior customer tra switches (EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)  \$/km/day	- 3 Major customer 11k/ Overhead lines (EQOHL) \$/km/day	— 327,781  Major customer Transformer capacity (EQTFC)  \$\frac{1}{5}\frac{1}{kVA}\day	108,145		227,303  Major customer Metered maximum demand (MCMMD)  5/kvA/day	Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 32,670 Large capacity, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets) S/kVA/day	32,670 32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity interconnection charge (winter) S/WA/day	21,659 21,659 Large capacity interconnection charge (summer)	21,619 21,619 Connection charge S/kVA/day	16,000 16,000 Customer investment contract charge S/kVA/day	30 - 750 kW generators (EXPCP1) S/AW/yr	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)  S/Invoice	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for additio charge re- by pri compone
ior customer tra switches (EQESW)	Major customer 11kV Metering equipment (EQMET) S/conn/day	Major customer 11kV Underground cabling (EQUGC)  \$/km/day	- 3 Major customer 11k/ Overhead lines (EQOHL) \$/km/day	— 327,781  Major customer Transformer capacity (EQTFC)  \$\frac{1}{5}\frac{1}{kVA}\day	108,145		227,303  Major customer Metered maximum demand (MCMMD)  5/kvA/day	Large capacity Operations, maintenance & administration (dedicated assets)	32,670 32,670 32,670 Large capacity, maintenance & administration (shared assets)	35,000 35,000 Large capacity Asset charge (dedicated assets) S/kVA/day	32,670 32,670 32,670 Large capacity Asset charge (shared assets)	7,647 7,647 Large capacity interconnection charge (winter) S/WA/day	21,659 21,659 Large capacity interconnection charge (summer)	21,619 21,619 Connection charge S/kVA/day	16,000 16,000 Customer investment contract charge S/kVA/day	30 - 750 kW generator (EXPCP1) 5/kW/yr	30 - 750 kW generators Control period export (EXPCP2) S/kWAr/yr	Monthly invoice charge (INVFXD)  S/Invoice	Failure to pay notice (INVFTP)	termination notice (INVDAT)	for addition charge rev by pric compone
or customer rra switches (EQESW)	Major customer 11th Metering customer (EOMET)  \$\frac{1}{5}\text{conn}/\day\$	7 7 Major customer 11NV Underground cabling (EQUIGC) 5/km/day 59	Major customer 11tV Overhead lines (ECOHL) 5/km/day	Major customer Transformer capacity (ECITY) 5/kVA/day	Major customer Peak charge (MCCPD)  \$5/kVA/day	TSS.547  Major customer Nominated maximum demand (MCNIM)  \$/NVA/day  \$10,740	227,303  Major customer Metered maximum demand (MCMMD)  S/kVA/day	35,000 35,000 35,000 Large capacity Operations, maintenance & administration (idedicated asserts) 5/NAVA/day 265	32,670 32,670 Large capacity Operations, & administration (shared assets) 5/kVA/day	35,000 35,000 Large capacity Arge capacity (dedicated assets) \$/fkv/A/day 411	32,670 32,670 Large capacity Large expacity (shared assets) \$\frac{1}{2}\text{LWA/day}\$	1,647 7,647 Large capacity Interconnection charge (winter) \$/txvA/day 413	21,519 21,619 21,619 Large capacity interconnection charge (summer) 5/kVA/day	21,839 21,639 Connection charge 5/fkvA/day 73	16,000 16,000 Customer Investment contract charge S/kvA/day		30-750 kW generators (Control period export (EXPCP2) (EXPCP2) (1) (1) (1) (2) (3) (4) (4) (5) (5) (6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	Monthly invoice charge (INVFXD)  \$\int \text{Invoice}  \$\int \text{Invoice}	Fallure to pay notice (INVFTP)  5/Notice	termination notice (INVDAT)  S/Notice	for addition charge rev by pric compone necesso
103  jor customer tra switches (EQESW)  switch/day  \$139	Major customer 11kV Metering equipment (ECMET) 5/conn/day	- 7 7 Mijor customer 11kV Underground cabling (ECUJGC) \$/km/day	Major customer 11XV Overhead lines (ECOH) 5/km/day	Major customer Transformer capacity (ECITY) 5/kVA/day	108,145  Major customer Peak charge (MCCPD)  \$/kVA/day  \$16,418	258,547  Major customer Nominated maximum demand (MCNMO) 5/NVA/day  510,740	227,303  Major customer Metered maximum denand (MCMMD)  5/kVA/day	35,000  35,000  Large capacity Operations, maintenance & administration (oledicated assets)  5/kVA/day  261	13,570 32,670 Large capacity perations: 8 administration (shared saxta) 5/kVA/day	35,000 35,000 Large capacity Aarge achairy (dedicated assets) 5/tvA/day 411	32,670 32,670 Large capacity Asset charge (shared assets) 5/NVA/day	1,647 7,647 Large capacity Interconnection charge (winter) 5/WA/day 413	21,619 21,619 21,619 Large capacity Interconnection charge (summer) S/kVA/day	21,639 21,639 Connection charge S/NVA/day 73	16,000 16,000 Customer investment contract charge S/NVA/day	30 - 750 kW generators Control period export (EXPCP1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	30 - 750 KW generators Control period export (EXPCP2) S/KVAr/yr (0)	Monthly invoice charge (INVFXD)  5/Invoice	Fallure to pay notice (INVFTP)  5/Notice	termination notice (INVDAT)  S/Notice	Add extro co for addition charge rev by prio componer necessa

Company Name Orion New Zealand Limited
For Year Ended 31 March 2020
Network / Sub-network Name Entire 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.

ref

8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1–4)
9	All	Overhead Line	Concrete poles / steel structure	No.	29,028	28,721	(307)	4
10	All	Overhead Line	Wood poles	No.	59,988	59,961	(27)	4
11	All	Overhead Line	Other pole types	No.	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	511	509	(3)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	88	86	(2)	4
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	40	40	_ (-/	4
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	2	1	(2)	4
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.	80	80	-	4
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	_	_	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	_	_	-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	112	113	1	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	_	_	_	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	381	293	(88)	4
29	HV	Zone substation switchgear	33kV RMU	No.	_	_	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	30	36	6	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	49	43	(6)	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	704	692	(12)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	_	_	-	N/A
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	86	82	(4)	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	3,076	3,070	(7)	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	_	_	-	N/A
37	HV	Distribution Line	SWER conductor	km	88	86	(2)	3
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1,158	1,200	42	4
39	HV	Distribution Cable	Distribution UG PILC	km	1,545	1,536	(9)	4
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.	59	62	3	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	872	813	(59)	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	9,261	9,254	(7)	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	14	3	(11)	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	4,592	4,694	102	4
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	6,432	6,444	12	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	5,233	5,308	75	4
48	HV	Distribution Transformer	Voltage regulators	No.	15	15	_	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	4,667	4,751	84	4
50	LV	LV Line	LV OH Conductor	km	1,762	1,754	(8)	2
51	LV	LV Cable	LV UG Cable	km	3,182	3,262	80	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	3,511	3,600	89	2
53	LV	Connections	OH/UG consumer service connections	No.	204,294	207,333	3,039	2
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2,701	2,717	16	
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	385	452 6	67	4
56	All	Capacitor Banks	Capacitors including controls	No	6 45	45	-	4
57	All	Load Control	Centralised plant	Lot	2,088	2.122	-	3
58	All	Load Control	Relays	No		•	34	3 4
59	All	Civils	Cable Tunnels	km	1	1	-	4

#### SCHEDULE 9b: ASSET AGE PROFILE

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

S	ch ref																								
	8		Disclosure Year (year ended)	31 March 2020	Ī								Number o	of assets at	disclosure	year end by	y installation	date							
					•																				
							1940	1950	1960	1970	1980	1990													
	9	Voltage	Asset category	Asset class	Units	pre-1940	-1949	-1959	-1969	-1979	-1989	-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	10	All	Overhead Line	Concrete poles / steel structure	No.	-	716	1,668	7,983	7,249	7,991	2,963	1	-	-	1	38	16	24	11	4	2	7	5	13
	11	All	Overhead Line	Wood poles	No.	-	1	422	7,371	7,155	2,366	13,248	2,362	2,933	3,634	1,251	1,272	1,585	1,394	1,464	1,354	1,644	1,415	989	787
	12	All	Overhead Line	Other pole types	No.	_	_	-	_	_	-	_	-	_	_	-	-	-	-	-	_	_	-	-	-
	13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	_	_	58	84	129	49	40	3	1	41	13	-	16	13	-	21	_	7	-	12
	14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km																				
	15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	_	_	-	_	_	-	9	-	5	2	2	0	3	0	2	3	0	1	3	1
	16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	_	-	5	26	9	-	-	-	0	-	-	-	0	0	0	_	0	0	-
	17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km																				
	18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	_	-	-	-
	19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km																				
	20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km																				
	21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km																				
	22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km																				
	23	HV	Subtransmission Cable	Subtransmission submarine cable	km																				
	24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	1	_	4	10	25	12	2	_	1	2	-	2	_	1	2	4	1	4	1	4
	25	HV	Zone substation Buildings	Zone substations 110kV+	No.	_	_	_	-	_	-	_	_	_	_	_	-	_	-	-	_	_	-	_	_
	26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	_	_	_	-	_	-	_	_	_	_	_	-	_	-	-	_	_	-	_	-
	27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	_	_	_	5	8	1	3	_	4	9	_	6	4	1	1	14	6	11	5	16
	28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	_	_	_	_	-	_	_	_	_	_	_	-	_	-	_	_	_	_	_	-
	29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	_	_	2	45	61	22	1	_	20	4	1	-	14	2	_	28	11	9	1	20
	30	HV	Zone substation switchgear	33kV RMU	No.	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_	-
	31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	_	_	_	_	_	_	_	_	_	_	_	_	5	9	_	6	_	3	2	_
	32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	_	_	_	4	15	13	1	1	8	1	_	_	_	_	_	_	_	_	_	_
	33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	_	_	_	1	191	47	38	11	11	61	_	42	34	7	41	26	49	_	52	13
	34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	_	_	_	_	_	_	_	_	_		_	_	_		_	_	_	_	_	_
	35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	_		1	15	16	16	3	1	2	2	_	_	5	1	3	4	_	_	2	
	36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	0	_	27	155	746	527	563	59	44	59	73	33	61	49	58	55	42	45	33	30
	37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km				133	740	327	505	33		- 55	,,,	- 55	01		50	33			- 55	- 50
	38	HV	Distribution Line	SWER conductor	km	_	_	1	1	13	15	33		_	_	_	3	Δ	1	2	0	3	_	1	_
	39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	1	0	0	2	2	16	52	25	34	40	50	54	58	47	50	44	46	46	49	76
	40	HV	Distribution Cable	Distribution UG PILC	km	29	37		384	400	305	198	14	12	11		2	0	0	1	1	1	1	0	0
	41	HV	Distribution Cable	Distribution Submarine Cable	km	23	37	130	304	400	303	130	24	12	- 11			U		_	_	_	-	- 0	-
	42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser				_	_	_	2	2	2	3	5	6	3	3	_	1	_	_	11		_
	43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.				44	339	134	47	9	45	32	46	29	25	16	13	11	1		1	2
	44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.			2	67	465	609	1,731	422	525	502	470	472	463	561	369	420	334	193	156	181
	45	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and ruses (pole mounted) 3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	<u> </u>		_	2	403	_	1,/31	- 422	223	- 302	- 470	-1/2	+05	201	-	420	-	173		181
	46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.			_	182	954	783	497	135	143	123	131	56	34	81	67	63	79	96	81	126
	47	HV	Distribution Transformer	Pole Mounted Transformer	No.	<del></del>	52		561	964	1.074	1,233	155	118	176	181	138	215	182	157	98	160	77	120	113
	48	HV	Distribution Transformer	Ground Mounted Transformer	No.	2	33		701	848	792	555	87	70	121	105	79	89	94	106	108	100	65	91	129
	48	HV	Distribution Transformer	Voltage regulators	No.		- 33	127	701	048	132	225	- 87	-	121	102	1	09	- 54	106	108	109	- 03	1	-
	50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	38	20	116	539	808	694	651	62	78	82	52	61	56	- 68	71	85	71	- 58	67	79
	51	LV	LV Line	LV OH Conductor	km	2	20	116	352	607	157	231	14	11	7	11	0.1	13	7	71	03	7.1	36	1	1
	52	LV		LV UG Cable	km	9	2	13	209	502	607	444	43	81	73	56	73	85	89	62	65	55	26	31	41
	52		LV Cable		km km	0	2		413	672	491	556	43	77	67	55	66	69	89	51	58	55	26	29	41
		LV	LV Street lighting	LV OH/UG Streetlight circuit				4	100,868	74	6,024	27,666	2,702	2,431	2,513	2,614	3,154	3,568	3,374	3,275	3,424	2,844	2,117	2,322	1,822
	54	LV	Connections	OH/UG consumer service connections	No.			_	100,868			27,666	2,702	2,431					3,374 210	3,275	3,424 98	2,844	122	101	1,822
	55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	<u> </u>				314	135		3		111	182	71	118							
	56	All	SCADA and communications	SCADA and communications equipment operating as a single sys			_	-	_	-	-	9	5	11	16	24	41	19	21	16	13	9	9	8	8
	57	All	Capacitor Banks	Capacitors including controls	No		_	-	_	-		-	-	-			-		-		-	-	_		-
	58	All	Load Control	Centralised plant	Lot		_	-	_	-	7	-	-	-	3	1	18	1	2	3	2	-		1	2
	59	All	Load Control	Relays	No		_	-	_	-	-	-	-	-		_	-	_	-	-	-	-	_	-	-
	60	All	Civils	Cable Tunnels	km		_		-	-	-	-	-	-	1		-	-	-	-	-	-	-	-	_

Company Name	Orion New Zealand Limited
For Year Ended	31 March 2020
Network / Sub-network Name	Entire network

2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1–4)
12	-	8	1	-	4	4	-							28,721		4
746	813	815	880	1,041	998	1,299	722							59,961		4
-	-	_	_	-	_	-	_							-		N/A
1	0	3	4	0	16	-	-							509		4
														-		N/A
2	5	18	21	1	3	3	_							86		4
0	-	-	-	0	_	-	-							40		4
														_		N/A
-	-	-	-	-	-	-	-							1		4
														-		N/A
														-		N/A
														-		N/A
														-		N/A
														-		N/A
-	2	_	1	_	1	_	_							80		4
-	-	-	-	-	-	-	-							-		N/A
-	-	-	_	-	_	-	_							-		N/A
4	-	7	4	2	_	2	_							113		4
-	-	_	_	_	_	_	_							-		N/A
14	7	11	_	12	_	8	_							293		4
-	-	-	-	-	-	-	-							-		N/A
-	-	_	_	_	11	_	_							36		4
-	-	_	_	_	_	_	_							43		4
20	2	25	17	1	3	-	-							692		4
-	-	-	-	-	-	-	_							-		N/A
2	2	3	1	-	1	2	_							82		4
88	77	47	66	22	57	34	18							3,070		3
														-		N/A
-	-	_	_	_	_	-	-							86		3
57	53	73	96	58	69	65	37							1,200		4
0	0	0	0	1	1	0	0							1,536		4
														-		N/A
2	-	-	4	5	7	6								62		4
7	-	4	-	8	-	-	_							813		4
163	143	271	195	141	177	135	86							9,254		4
-	-	-	-	-	-	-								3		4
77	160	149	145	180	145	107	100							4,694		4
67	107	143	72	114	96	36	11							6,444		4
75	168	201	141	158	154	62	38							5,308		4
105	- 145	135	165	115	109	126	95		-	-			-	15		4
105	145	135	165	115	109	126 1	95		-	-			294	4,751 1,754		2
64	86	101	116	76	76	92	86		-	-			294			3
93	92	98	116	82	76 55	92	97				1	-	-	3,262 3,600		3
2,197	3,760	5,747	6,438	5,388	4,419	4,015	4,577		-	-			-	207,333	106,464	2
198	3,760	114	137	5,388	4,419	102	4,577							2,717	100,404	3
4	7	12	46	38	45	57	34							452		4
2	_ ′	-	- 46	-	- 45	4	- 34		<u> </u>	<u> </u>			<b>-</b>	452		4
1	1	1	1		1	-								45		4
_	_	160	153	49	60	16	34						1,650	2,122		3
_	_	-	-	-	-	-	-						1,030	1		4
				<u> </u>												

Company Name
For Year Ended
Network / Sub-network Name
Orion New Zealand Limited
31 March 2020
Entire 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.

sc	h re	f			
	9				
					Total circuit
	10	Circuit length by operating voltage (at year end)		Underground (km)	length (km)
	11	> 66kV	_	-	-
	12	50kV & 66kV	259	91	350
	13	33kV	249	36	286
1	14	SWER (all SWER voltages)	86	2	88
	15	22kV (other than SWER)	_	_	_
	16	6.6kV to 11kV (inclusive—other than SWER)	3,070	2,733	5,803
	17	Low voltage (< 1kV)	1,754	3,262	5,016
	18	Total circuit length (for supply)	5,419	6,124	11,543
	19				
	20	Dedicated street lighting circuit length (km)	902	2,697	3,600
	21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			87
_	22			(% of total	
2	23	Overhead circuit length by terrain (at year end)	Circuit length (km)	•	
2	24	Urban	1,693	31%	
2	25	Rural	3,162	58%	
2	26	Remote only	143	3%	
2	27	Rugged only	184	3%	
2	28	Remote and rugged	238	4%	
2	29	Unallocated overhead lines	-	-	
3	30	Total overhead length	5,419	100%	
3	31				
				(% of total circuit	
	32		Circuit length (km)		
1	33	Length of circuit within 10km of coastline or geothermal areas (where known)	1,909	17%	
				(% of total	
3	34		Circuit length (km)	overhead length)	
3	35	Overhead circuit requiring vegetation management	5,419	100%	

**Orion New Zealand Limited** Company Name 31 March 2020 For Year Ended **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 Number of ICPs Line charge revenue Location \* served (\$000) Rakaia Gorge Embedded Network, upper Rakaia river 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

\* 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

26

embedded network

	Company Name	Orion New Zealand Limited
	For Year Ended	31 March 2020
		Entire network
	Network / Sub-network Name	Entire network
	HEDULE 9e: REPORT ON NETWORK DEMAND	
	schedule requires a summary of the key measures of network utilisation for the disclosure year (number of ibuted generation, peak demand and electricity volumes conveyed).	new connections including
uistri	ibuted generation, peak demand and electricity volumes conveyed).	
sch ref	f	
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
	· · · · · · · · · · · · · · · · · · ·	Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Streetlighting	8
12	General	4,762
13	Irrigation	6
14	Major customer Major customer	10
15	Large capacity	_
16	* include additional rows if needed	1-0-1
17	Connections total	4,786
18 19	Distributed generation	
20	Number of connections made in year	514 connections
21	Capacity of distributed generation installed in year	9.31 MVA
22	9e(ii): System Demand	
23		
24		
		Demand at time
		of maximum
		of maximum coincident
25	Maximum coincident system demand	of maximum
26	GXP demand	of maximum coincident demand (MW)
26 27	GXP demand  plus Distributed generation output at HV and above	of maximum coincident demand (MW)
26 27 28	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand	of maximum coincident demand (MW)  604 2 606
26 27 28 29	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above	of maximum coincident demand (MW)  604 2 606
26 27 28	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand	of maximum coincident demand (MW)  604 2 606
26 27 28 29	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above	of maximum coincident demand (MW)  604 2 606
26 27 28 29 30	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points	of maximum coincident demand (MW)  604 2 606 0 606
26 27 28 29 30	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)
26 27 28 29 30 31 32	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh) 3,408
26 27 28 29 30 31 32 33 34 35	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11
26 27 28 29 30 31 32 33 34 35 36	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419
26 27 28 29 30 31 32 33 34 35 36 37	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276
26 27 28 29 30 31 32 33 34 35 36 37 38	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419
26 27 28 29 30 31 32 33 34 35 36 37	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276
26 27 28 29 30 31 32 33 34 35 36 37 38 39	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%
26 27 28 29 30 31 32 33 34 35 36 37 38 39	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh) 3,408 0 11 0 3,419 3,276 143 4.2%
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor  9e(iii): Transformer Capacity	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor  9e(iii): Transformer Capacity  Distribution transformer capacity (EDB owned)	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%  (MVA) 2,186
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor  9e(iii): Transformer Capacity  Distribution transformer capacity (EDB owned)  Distribution transformer capacity (Non-EDB owned, estimated)	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%  (MVA)  (MVA)  2,186 228
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	GXP demand  plus Distributed generation output at HV and above  Maximum coincident system demand  less Net transfers to (from) other EDBs at HV and above  Demand on system for supply to consumers' connection points  Electricity volumes carried  Electricity supplied from GXPs  less Electricity exports to GXPs  plus Electricity supplied from distributed generation  less Net electricity supplied to (from) other EDBs  Electricity entering system for supply to consumers' connection points  less Total energy delivered to ICPs  Electricity losses (loss ratio)  Load factor  9e(iii): Transformer Capacity  Distribution transformer capacity (EDB owned)  Distribution transformer capacity (Non-EDB owned, estimated)	of maximum coincident demand (MW)  604 2 606 0 606  Energy (GWh)  3,408 0 11 0 3,419 3,276 143 4.2%  (MVA)  (MVA)  2,186 228

Company Name For Year Ended Network / Sub-network Name **Orion New Zealand Limited** 31 March 2020 **Entire 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

ref			
8	10(i): Interruptions		
		Number of	
9	Interruptions by class	interruptions	
10	Class A (planned interruptions by Transpower)	1	
11	Class B (planned interruptions on the network)	747	
12	Class C (unplanned interruptions on the network)	962	
13	Class D (unplanned interruptions by Transpower)	2	
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)	3	
19	Total	1,715	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	664	298
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	0.00	0.
26	Class B (planned interruptions on the network)	0.07	22.
27	Class C (unplanned interruptions on the network)	0.60	45.
28	Class D (unplanned interruptions by Transpower)	0.00	0.0
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)	0.00	0.0
34	Total	0.66	68.0
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAID
37	Classes B & C (interruptions on the network)	0.66	67.8

Company Name For Year Ended Network / Sub-network Name Orion New Zealand Limited
31 March 2020
Entire network

### **SCHEDULE 10: REPORT ON NETWORK RELIABILITY**

Cause unknown

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 Interruption	s and Duration	hy Cause
TUIIII: Class	C interrubtion	s and Duration	by cause

Cause	SAIFI	SAIDI
Lightning	0.02	1.0
Vegetation	0.07	5.8
Adverse weather	0.04	6.7
Adverse environment	0.00	0.1
Third party interference	0.07	5.5
Wildlife	0.02	2.2
Human error	0.01	0.2
Defective equipment	0.27	19.5

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	-	_
Subtransmission cables	-	_
Subtransmission other	_	_
Distribution lines (excluding LV)	0.04	13.9
Distribution cables (excluding LV)	0.00	0.7
Distribution other (excluding LV)	0.02	7.6

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.03	1.1
Subtransmission cables	_	_
Subtransmission other	0.00	0.1
Distribution lines (excluding LV)	0.32	32.4
Distribution cables (excluding LV)	0.15	7.3
Distribution other (excluding LV)	0.10	4.7

### 10(v): Fault Rate

71	Main equipment involved	Number of Faults	Circuit length (km)
72	Subtransmission lines	9	509
73	Subtransmission cables	_	127
74	Subtransmission other	1	
75	Distribution lines (excluding LV)	626	3,156
76	Distribution cables (excluding LV)	54	2,735
77	Distribution other (excluding LV)	109	
78	Total	799	
			_

Fault rate (faults per 100km)	
1.77	
-	
19.83	
1.97	

Company Orion New Zealand Limited
Year ended 31 March 2020

# Schedule 14 Mandatory Explanatory Notes

- 1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).
- 2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
- 3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

#### Return on Investment

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

#### Box 1: Comment on return on investment (ROI)

Following the Canterbury earthquakes of 2010 and 2011, we applied for and were granted a Customised Price Path (CPP) for the period 1 April 2014 to 31 March 2019. The Commission used a WACC rate of 6.92% to set our CPP.

Our financial performance for the period of the CPP, as well as the three prior years, has been affected by the Canterbury quakes, including:

- higher capex
- higher opex
- lower network delivery revenues in FY11 to FY14 due to guake effects on demand
- higher network delivery revenues in FY15 to FY19 due to our CPP price resets
- quake insurance cash settlement revenues (affected disclosures in FY15, FY13 and FY12).

In FY20 the Commerce Commission allowed us to roll forward our CPP revenue allowance, less the claw-back of our earthquake recovery costs. This one-year extension brings us into line with other price and quality controlled EDBs for the start of the DPP period effective 1 April 2020. While the Commission didn't specifically allow a WACC for the extension, our prices were underpinned by the 6.92% carried-forward from our CPP. For this reason we have disclosed the WACC rate used to set our regulatory price path for FY20 at 6.92% in schedule 2.

Our FY20 post-tax regulatory ROI was 7.3% (FY19: 6.7%; FY18: 6.8%). FY20's ROI includes a 2.5% CPI movement (FY19: 1.5%).

No items were reclassified in FY19.

### Regulatory Profit (Schedule 3)

- 5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
  - 5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
  - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

### Box 2: Comment on regulatory profit

Other regulated income included (pre-tax):

	FY20 \$m
Rental revenue and recovery of outgoings	2.0
Recoveries from third parties who cause to damage to our network	1.0
Other	1.2
Total	4.2

Some significant items have affected regulatory profit post-quake. Our high-level summary to normalise for these to derive "underlying regulatory profit" is as follows – all figures post-tax:

	FY20 \$m	FY19 \$m	FY18 \$m	FY17 \$m	FY16 \$m	FY15 \$m	FY14 \$m	FY13 \$m	FY12 \$m
Regulatory profit – as disclosed	81	74	72	78	63	81	51	49	62
Less quake insurance cash settlements	-	-	-	-	-	(24)	-	(2)	(21)
Less indexed asset revaluations	(28)	(16)	(11)	(21)	(5)	(1)	(13)	(7)	(13)
Add back loss on asset disposals	1	1	1	1	3	1	5	2	2
Add back identified quake related opex	-	-	-	-	-	-	-	-	10
Underlying regulatory profit	54	59	62	58	61	57	43	42	40

We expected our underlying profit to reduce between FY19 and FY20 as the Commerce Commission reduced our FY20 revenue due to the removal of the claw-back of earthquake recovery costs.

No items were reclassified in FY19 or FY20.

Merger and acquisition expenses (3(iv) of Schedule 3)

- 6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
  - 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
  - 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

#### Box 3: Comment on merger and acquisition expenditure

Not applicable

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Comment on the value of the regulatory asset base (rolled forward	i)
During FY20 our RAB value increased as follows:	
	FY20 \$m
Opening RAB value	1,089
Add new assets commissioned	78
Add indexed asset revaluation (at CPI)	28
Less asset disposals at RAB value	(1)
Less depreciation and amortisation	(43)
Closing RAB value	1,150

Our \$78m of commissioned assets in FY20 is significantly higher than FY19 (\$63m). In part this is due to a \$13m reduction in works under construction as we completed a number of significant projects during the year.

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

- 8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-
  - 8.1 Income not included in regulatory profit / (loss) before tax but taxable;
  - 8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;
  - 8.3 Income included in regulatory profit / (loss) before tax but not taxable;
  - 8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

	FY20 \$m
axable income that is not in regulatory profit before tax	<del>*</del>
expenditure that is not deductible:	
Substation development costs expensed	0.1
egal and entertainment expenses	0.1
	0.2
ncome that is not taxable	
income that is not taxable	-
Deductible expenditure that is not in regulatory profit before tax:	
Costs to obtain land easements	0.1
	0.1

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

Box 6: Regulatory tax: temporary differences	
	FY20 \$m
Expenditure timing differences for tax deductibility	0.6
Insurance cash settlement proceeds – assessable for tax purposes	0.1
Finance lease payments – operating leases for tax purposes	(0.2)
Internal profits on capex – deductible for tax purposes	(0.3)
Capex – deductible for tax purposes	(1.3)
Net total	(1.1)

#### Cost allocation (Schedule 5d)

10. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

#### Box 7: Comment on cost allocation

We have two wholly-owned subsidiary companies:

- Connetics Limited, an electricity construction and maintenance company
- Orion NZ Ventures Limited, which holds a minor legacy investment in a US venture capital fund.

Both are *ring fenced*, with no shared assets and minimal shared costs. Any shared costs are charged to the relevant subsidiary on an arms-length basis, with the revenue treated as regulatory income by Orion. The income received from the lease of the depot by Connetics is recognised as Other regulated income as part of rental income in Schedule 3.

No items were reclassified in FY19 or FY20.

#### Asset allocation (Schedule 5e)

11. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

#### Box 8: Comment on asset allocation

**During FY18** we re-allocated two groups of assets from electricity distribution services to non-electricity distribution services, and therefore excluded their values from our RAB.

Firstly, based on advice from PwC we assigned \$0.9m of land not currently in use at our Waterloo Rd depot to non-electricity distribution activities.

Secondly, based on the Commerce Commission's Open letter (dated 9 May 2018) we re-allocated the values of EV chargers (other than those at our head office site) to non-electricity distribution activities. We excluded FY18 expenditure related to EV chargers from EDB expenditure values. We submitted to the Commission that our expenditure to date has been immaterial (less than 0.1% of our RAB) and is intended to help us understand what impacts EVs will have on our network, as well as to "seed" and encourage the update of EVs. The Mar 17 value of EV chargers re-allocated to non-electricity distribution assets at the end of FY18 was \$0.3m. We also did not assign additional FY18 expenditure to RAB.

In FY19 we reassessed the value of EV chargers we removed in FY18, following our response to the Commission's 2018 technology-related s53ZD notice. Clarifying the boundary between the network assets and the charger/plinth assets has resulted in us reassigning \$0.1m of assets previously classified outside RAB as now being part of our RAB.

We made no further changes to asset allocation in FY20.

Capital Expenditure for the Disclosure Year (Schedule 6a)

- 12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
  - 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
  - information on reclassified items in accordance with subclause 2.7.1(2).

#### **Box 9: Comment on capex**

Schedule 6a discloses our capex spend (not necessarily commissioned) as follows:

- \$64m (last year: \$72m) for network assets
- \$3m (last year: \$3m) for non-network assets.

Schedules 6a(iii), and 6a(v) to 6a(viii) disclose the large items for each category.

Schedule 6a(iv) discloses \$14m of capex for system growth and \$33m for asset replacement and renewal. Our major projects and programmes in these areas which exceeded \$2m were

	System growth \$m	Replacement & renewal \$m	
Supply fuse relocation		7	
LV, 11kV and subtransmission conductor and poles		6	
11kV network circuit breaker replacement		3	
11kV switchgear replacement		3	
11kV zone circuit breaker replacement		2	
LV switchgear replacement		2	
Replacement of distribution transformers		2	
Marshland zone substation	2		
Dunsandel zone substation upgrade	2		
Other projects and programmes	10	8	
Total	14	33	
No capex items were reclassified in FY20.			

Operational Expenditure for the Disclosure Year (Schedule 6b)

- 13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
  - 13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
  - 13.2 Information on reclassified items in accordance with subclause 2.7.1(2);
  - 13.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 10: Comment on operational expenditure for the disclosure year	
Schedule 6b(i) discloses \$2.7m of FY20 maintenance opex as asset replacemer	nt and renewal:
	FY20
	\$m
Retightening and cross-arm and insulator work on 11kV overhead lines	1.2
66kV underground cable joint refurbishment	0.1
Other	0.5
	1.8
There were no material atypical items of expenditure in FY20.	
No items were reclassified during FY20.	

Variance between forecast and actual expenditure (Schedule 7)

14. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

### Box 11: Comment on the variance between forecast and actual capex and opex

#### **CAPEX**

Schedule 7(ii)) discloses our AMP forecast capex at \$70m and actual capex at \$68m. The key offsetting reasons for this underspend of \$2m are:

	FY20 \$m	
Belfast zone sub (deferred to future year)	4	
Marshland zone substation (delayed)	3	
Lyttelton tunnel 11kV (delayed start from FY19)	(1)	
Replacements	(2)	
Connections and extensions (customer-driven)	(3)	
Other (net)	1	
Underspend relative to our AMP forecast	2	

#### **OPEX**

Schedule 7(iii) discloses our AMP forecast opex of \$66.4m and actual opex of \$61.3m. Of this \$5.2m underspend, \$0.8m is due to network opex and \$4.4m is due to non-network opex.

The key reasons for these two variances are:

Network opex	FY20 \$m
Routine and corrective maintenance and inspection	1.3
Asset replacement and renewal opex	0.3
Service interruptions and emergencies	(0.4)
Vegetation management	(0.4)
Underspend relative to our AMP forecast	0.8

	FY20
Non-network opex	\$m
Salaries and wages	0.9
Community engagement, sponsorship and communications	0.8
Consultancy	0.6
Salaries and wages – increase in capitalised labour	0.5
Commercial and regulatory	0.3
Other	1.3
Underspend relative to AMP forecast	4.4

From FY18 we have changed our accounting treatment and now capitalise an assessment of the salaries and wages of Orion employees associated with planning and administering capex projects. We made this change for financial reporting, tax and regulatory reporting purposes, and have continued to do so in FY19 and FY20.

No opex items were reclassified during FY20.

Information relating to revenues and quantities for the disclosure year

- 15. In the box below provide-
  - 15.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and
  - 15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

#### Box 12: Comment on revenue for the disclosure year

In order to compare revenue with target revenue (as disclosed in our "Methodology for deriving delivery prices" document) on a like-for-like basis, we have added back irrigation rebates and export and generation credits (totalling \$1.4m) to actual revenue and made some other minor adjustments to target revenue.

The following table shows our restated target and actual revenue after allowing for these adjustments:

	Target \$m	Actual \$m	Difference \$m
Distribution	182.3	181.8	(0.5)
Transmission	62.5	61.9	(0.6)
Delivery revenue	244.8	243.7	(1.1)

The main factor contributing to the difference between target and billed revenue was general connection peak charges which were \$1.0m below target. This was the result of peak demand being 6.5MW below forecast.

Network Reliability for the Disclosure Year (Schedule 10)

16. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

#### Box 13: Comment on network reliability for the disclosure year

The normalisation approach required under this information disclosure yields the normalised SAIFI and SAIDI given in Schedule 10. These results differ from the normalised results calculated under Orion's DPP.

#### In summary:

	DPP assessed normalised results	Information Disclosure normalised results	DPP limit
SAIDI	67.3	67.8	73.4
SAIFI	0.66	0.66	0.87

The difference results from the application of different boundary values when normalising the results for major event days.

Our reliability information in Schedule 10 has been prepared on a basis consistent with the previous year's disclosure.

In particular, when one event has resulted in successive interruptions which individually exceed one minute, we treat each of the successive interruptions as a separate incident in the determination of our SAIFI and SAIDI.

#### Insurance cover

- 17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-
  - 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
  - 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

#### Box 14: Comment on our insurance cover

A summary of our insurance cover is as follows.

We insure our corporate and network buildings and our key substations for their respective estimated replacement values, subject to natural disaster deductibles as follows:

- 1.0% of insured value for post-2004 buildings
- 2.5% of insured value for pre-2004 buildings
- 10.0% of insured value for pre-1935 buildings.

We also insure our other corporate assets and key liability risks.

Our business interruption indemnity period is 18 months.

We have two key uninsured risks that are economically uninsurable for our industry:

- damage to our overhead lines and underground cables for example, due to a major earthquake
- general lost revenues for example, due to significant depopulation following a catastrophic event.

We continue to insure our key risks where it is economic to do so, in line with good industry practice.

#### Amendments to previously disclosed information

- 18. In the box below, provide information about amendments to previously disclosed information in accordance with clause 2.12.1 in the last 7 years, including:
  - 18.1 a description of each error; and
  - for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

#### Box 15: Disclosure of amendment to previously disclosed information

We have made no amendments to previously disclosed information to correct errors. We have identified some immaterial errors in prior year disclosures – refer Schedule 15.

The volume charges applied to general, streetlighting and irrigation connections and the peak demand charges applied to general and streetlighting connections are calculated from total energy volumes injected into the network, measured at Transpower GXPs and other embedded generation points, less loss adjusted half-hourly metered major customer and large capacity connection volumes. As we cannot accurately apportion this volume between the general, streetlighting and irrigation connection categories we apply the same volume and peak demand prices.

As the general connection category represents almost 99% of the connections on our network, we have decided for disclosure reporting, for the reason explained above, to include all billed quantities and revenues associated with the general, streetlighting and irrigation volume and the general and streetlighting peak demand price components under the general connection category.

Company Name Orion New Zealand Limited
For Year Ended 31 March 2020

### Schedule 15 Voluntary Explanatory Notes

- 1. This schedule enables EDBs to provide, should they wish to
  - additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
  - information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
- 2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
- 3. Provide additional explanatory comment in the box below.

#### Voluntary other comments on disclosed information

#### Schedule 3(iii)

In our FY17 disclosures we identified an error with previously disclosed information.

In FY16, we disclosed \$2,425k in row 54 as the incremental change in FY16. This amount was the difference between our allowed controllable opex for FY16 (\$58,104k) and our actual controllable opex for FY16 (\$55,679k).

However, the incremental change for FY16 should have been calculated as:

(allowed opex FY16 - actual opex FY16) - (allowed opex FY15 - actual opex FY15)

= (\$58,104k - \$55,679k) - (\$54,909k - \$50,828k)

= (\$1,656k).

We have carried forward the incorrect amount of \$2,425k in our subsequent disclosures. This error has no impact on any other disclosed information.

However, the column *Previous years' incremental change adjusted for inflation* records the inflation-adjusted corrected value.

#### Schedule 5a(viii)

In our FY19 disclosures we identified two immaterial errors with our FY18 disclosures in Schedule 5a(viii), the regulatory tax roll-forward.

In FY18 we agreed with the IRD that we would capitalise \$2.6m of internal labour per annum from FY16 to FY19 inclusive. Our regulatory tax commissioned assets for FY18 were reduced by the reversal of the provision we included within our FY17 commissioned asset disclosure, but at the time our asset register report was run the correct additions for FY16 and FY17 had not been included. This error <u>understated</u> our commissioned tax assets for FY18 by \$5.2m.

We hold some tax assets and asset offsets outside our asset register, in a schedule managed by our tax advisors. The tax depreciation impact of these adjustments was incorrectly added to tax depreciation rather than subtracted. This error overstated our tax depreciation by \$5.8m. This overstatement is partially offset by

\$0.6m of tax depreciation on the assets described in the last paragraph, so the net <u>overstatement</u> of tax depreciation was \$5.2m.

The cumulative effect of both of these errors was that our FY18 closing regulatory tax asset value was understated by \$10.4m (2.5%). If corrected, tax depreciation, commissioned tax assets and closing tax asset values would have changed respectively as follows: 42,233 to 37,061; 62,189 to 67,402 and 400,020 to 410,406.

Tax depreciation expense from schedule 5a(viii) flows into schedule 5a(vi) – the calculation of deferred tax balance. If adjusted, schedule 5a(vi) row 64 (tax effect of tax depreciation) would have changed from 11,825 to 10,377 and closing deferred tax liability would change from 43,149 to 41,701. If this flowed through to the calculation of ROIs in schedule 2, our disclosed ROIs would have dropped by 0.01% - our ROI comparable to a post-tax WACC reflecting all revenue earned would have fallen from 6.83% to 6.82%.

As this impact is immaterial we adjusted these errors within our FY19 disclosures without adjusting opening balances. Note that these errors only affected our regulatory tax values, not our RAB values.

#### Schedule 5b (iii)

Our Other related party transactions disclosed in row 35 of schedule 5b are rates levied by our shareholders, as follows:

Total	4,336
Christchurch City Council	4,098
Selwyn District Council	238
	\$000

We have attached a separate disclosure schedule which provides additional disclosures about transactions with our related parties, as required by following the Commission's *Input methodologies review – related party transactions*, published 21 December 2017.

#### Schedule 8

#### Our:

- kWh volume-based revenues for general connections, streetlighting connections and irrigation connections and
- kW peak-demand-based revenues for general and streetlighting connections

are calculated from total energy volumes injected into our electricity distribution network, measured at Transpower GXPs and other embedded generation points, minus loss-adjusted half-hourly metered major customer and large capacity connection revenues. Revenues for the latter two categories are calculated and charged separately.

It is not possible to accurately apportion the kWh or the kWh chargeable volumes between general, streetlighting and irrigation connection categories. In any case, we apply the same volume and peak demand prices to all three categories.

General connections represent 99% of the number of connections on our network. For information disclosure purposes, we have disclosed all quantities and revenues for the three categories in the general connection category.

#### Schedule 9a and 9b

An error in a factor used in the calculation of our lengths of our low voltage cable network and streetlighting cable network resulted in a small understatement of the total length of these assets by 1.5% in our FY17 disclosures. This small variation partially offset the normal annual growth in these asset lengths. While it would be normal to expect to observe reductions in quantities of older assets in the age profile, in FY18, as a result of the correction of this factor, the age profile showed small increases in quantities for old assets in rows 52 and 53. We have not restated/corrected this information in our FY17 disclosures because the error is not material.

#### Schedule 9b

In FY17 we identified and disclosed an error with previously disclosed information. In FY15 and FY16 we had 111,581 and 111,569 consumer service connections respectively where we used default dates to develop our age profile. Due to transposition errors, we did not disclose these quantities in the default date column in schedule 9b in either year. We have not restated/corrected this information in our FY15 and FY16 disclosures because the error is not material.

#### Schedule 10 - comment on network reliability for the disclosure year

Our reliability information in Schedule 10 has been prepared on a basis consistent with the previous year's disclosure. In particular, when one event has resulted in successive interruptions which individually exceed one minute, we treat each of the successive interruptions as a separate incident in the determination of our SAIFI and SAIDI.



### Additional related party disclosures

In accordance with clauses 2.3.8 – 2.3.18 of the Electricity Distribution Information Disclosure Determination 2012.

#### 1. Introduction

This document discloses additional information to meet the related party disclosure requirements of the Electricity Distribution Information Disclosure Determination 2012 (IDD).

The IDD requires Orion to publicly disclose:

Description	IDD reference
Diagram or description of related party transactions	2.3.8
Report on related party transactions	Schedule 5b
Summary of procurement policy for procurement from related parties	2.3.10
Example of procurement policy in practice	2.3.12(1)
Representative transactions	2.3.12(3) & (5)
Policies or procedures that require or have the effect of requiring purchase	2.3.12(2)
Testing of arms-length representative transactions	2.3.12(4)
Map of anticipated expenditure and network constraints	2.3.13 – 2.3.16
Full disclosure of procurement policy*	2.3.11

<sup>\*</sup>disclose to the Commission only

#### 2. Threshold analysis

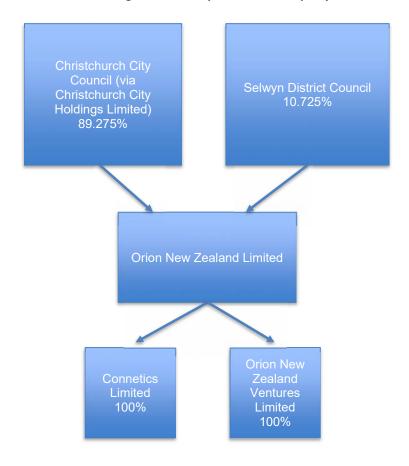
In FY20 the sum of Orion's opex and capex exceeded the Commission's \$20m de minimis threshold (IDD 2.3.9(1)), and our total related party expenditure exceeded 10% of our total opex and capex, so we are required to make these related party disclosures.

In FY20 we spent a total of:

2020	2019
\$m	\$m
61	60
68	75
129	135
	<b>\$m</b> 61 68

Orion's expenditure with related parties in FY20, as disclosed in IDD schedule 5b, amounted to \$35m (FY19: \$40m), around 27% (FY19: 31%) of our overall capex and opex. This includes \$4m of rates paid to related parties in both years.

#### 3. Clause 2.3.8 Diagram or description of related party transactions



Orion is owned by:

- Christchurch City Holdings Limited (CCHL) 89.275%
- Selwyn District Council (SDC) 10.725%.

CCHL is in turn owned 100% by the Christchurch City Council (CCC).

Orion has two wholly-owned subsidiaries:

- Connetics Limited, which undertakes the construction and maintenance of overhead and underground lines and associated equipment required for the delivery of utility and infrastructure services. Connetics was established in 1996
- Orion New Zealand Ventures Limited, which holds Orion's long-term investment in a US-based technology fund (now in its final stage of settlement).

CCC and SDC both have subsidiary companies and other related parties with which Orion also transacts business.

#### These related parties include:

- Christchurch International Airport Limited (CCHL 75%)
- Lyttelton Port Company Limited (CCHL 100%)
- Enable Services Limited (CCHL 100%)
- City Care Limited (CCHL 100%)
- Red Bus Limited (CCHL 100%)
- EcoCentral Limited (CCHL 100%)
- Development Christchurch Limited (CCHL 100%)
- Vbase Ltd (CCC 100%)
- Civic Building Ltd (CCC 100%)
- ChristchurchNZ Holdings Ltd (CCC 100%)
- Transwaste Canterbury Ltd (CCC 38.9%)
- Riccarton Bush Trust (CCC appoints five of eight members)
- Rod Donald Banks Peninsula Trust (administered by CCC)
- Christchurch Agency for Energy Trust (administered by CCC)
- Central Plains Water Trust (established by the CCC and SDC)
- Sicon Limited (SDC 100%)
- Tramway Reserve Trust (administered by SDC)
- Selwyn District Charitable Trust (administered by SDC).

Orion also has relationships with a large number of related parties where our directors, as Orion key management personnel, are either key management personnel or shareholders. These related parties are listed in our annual report, available on our website (oriongroup.co.nz).

However, other than for Connetics, CCC, SDC and City Care, our transactions with our related parties are infrequent and immaterial. Where transactions do occur with these other related parties, they are provided on an arms-length basis. Orion provides delivery services to many of these entities, although in most cases the service is provided through an interposed retailer rather than invoiced and negotiated directly. Lyttelton Port is billed directly as a major customer, but pricing is identical with the methodology and assessment periods applied to all other Orion major customers. A number of CCC sites, Vbase sites, City Care and Christchurch International Airport are also major customers but are charged on a basis consistent with all other major customers and are not invoiced directly by Orion.

For this reason, we have not provided additional analysis on these related parties, but instead focus our disclosures around Connetics, CCC, SDC and City Care as these are more material.

#### **Business relationships with Connetics Limited**

Orion established Connetics as a standalone company in 1996 in order to introduce competition to maintenance and construction works. A significant amount of the revenue which Connetics receives from Orion is the result of successful tenders awarded on a lowest-price conforming tender basis. We seek tenders from multiple approved contractors for virtually all works above \$20,000.

In addition, Orion has negotiated certain contracts with Connetics which cover circumstances where the lowest-price conforming tender approach does not work satisfactorily. We had PwC review each of these contracts in FY19 to ensure that these contracts operate on an arms-length basis. These contracts cover:

- emergency response works, which uses a schedule of rates. Orion has also negotiated contracts
  with unrelated parties for similar works, although as our largest contractor with expertise in a
  diverse range of fields the largest single emergency response work contract is with Connetics.
  During FY19 Orion engaged PwC to perform a review of the arrangements in place for FY19, and
  also to review the basis for a three-year extension of the contract. PwC considered that Connetics'
  margins are reasonable, and the contract meets the arms-length test
- cable supply. As discussed in section 7 below, Orion has negotiated a contract with Connetics to provide cable to all contractors working on its network to ensure the cable is of an appropriate standard. Connetics' contracting section is charged at the same rates as external parties which helps keep a competitive market for construction services. During FY19 PwC reviewed the arrangements and concluded that the risk that Connetics earns excessive margins on the cable supply contract that help it subsidise work in other markets is low
- network storage and supply. This requires Connetics to provide certain minimum levels of
  emergency spares and to manage Orion-owned equipment such as transformers and switchgear.
  During FY19 Orion engaged PwC to perform a review of the arrangements in place. PwC considered
  that the contract meets the arms-length standard
- design work, which uses a schedule of rates. Orion uses several other design consultants as well.
   Orion engaged PwC to perform a review of the intercompany arrangements. PwC determined that rates charged are comparable with those charged by other design contractors and the contract meets the arms-length standard.

These contracts remain in place in FY20 and we have therefore not needed to have them reassessed for FY20.

During FY20 Orion paid Connetics \$34.3m (FY19: \$35.5m) for opex and capex. Refer to schedule 5b (iii) of our FY20 Information Disclosures for additional information.

Connetics has its own management, IT and support infrastructure. Accordingly, Orion charges to Connetics for services performed are minimal.

A key exception to this is the provision by Orion of a depot for Connetics' use in Islington. The rental on the property has been negotiated on an arms-length basis with both parties taking independent advice. During FY18 Orion engaged PwC to perform a review of the arrangements. PwC confirmed that the lease contract and negotiations reflect arms-length principles. The lease remained in place for FY20.

Orion provides debt funding to Connetics via an intercompany loan, repayable on demand, at a margin above the 90-day bank bill FRA rate intended to replicate genuine funding costs that Connetics would face as a standalone business.

As our former contracting division, Connetics has a wider range of skills than our other more specialist providers, but doesn't compete in all market segments. This is discussed further in the next section.

#### Business relationships with CCC, SDC and CCHL

Orion pays rates to both CCC and SDC on an arms-length basis consistent with the Local Government (Rating) Act 2002. Orion also pays other council fees – eg, licenses, resource consents – on an arms-length basis based on the Council's posted terms and conditions.

During FY20 Orion paid CCC \$4.1m (2019: \$3.9m) for rates (including rates collected on behalf of Environment Canterbury) and a further \$0.2m (2019: \$0.2m) for other opex and capex.

During FY20 Orion paid SDC \$0.2m (2019: \$0.2m) for rates (including rates collected on behalf of Environment Canterbury) and a further \$0.2m (2019: \$0.2m) for other opex and capex.

Refer to schedule 5b (iii) of our FY20 Information Disclosures for additional information.

Orion invoices the CCC and SDC for delivery services through electricity retailers using standard terms and conditions.

Orion also invoices SDC and CCC for:

- a service to the CCC and Meridian for managing a database containing the number/types of streetlights, charged to both parties on an arms-length basis
- contributions towards asset relocations. As Roading Authorities, the Councils and NZTA can require
  Orion to relocate assets we have in the road reserve on a like for like basis. Under the Electricity Act
  Orion can negotiate with the council (and with NZTA) to contribute towards the cost of these
  projects. We require a more significant contribution where the assets are placed underground
  instead of replacing overhead with overhead. Orion determines a charge based on the actual costs
  of the project, considering the age and condition of the assets being removed and any
  improvement in capacity or improved functionality of the new assets. This is consistent with how
  we work with unrelated parties
- contributions towards discretionary asset undergrounding. We negotiate with the council using the
  principles discussed in the previous bullet point to agree a contribution towards the costs of this
  work. In FY20 we did not undertake any discretionary undergrounding projects for either council.
  In FY19 we undertook two discretionary undergrounding projects for SDC (CCC: nil), where
  overhead assets approximately halfway through their useful lives were replaced with underground
  assets. SDC contributed a substantial share of the replacement costs, which we treated as a capital
  contribution. This is consistent with how we work with unrelated parties
- new connections to the network, using the same price schedule as for unrelated parties
- repair costs when the activities of these parties lead to damage to Orion's network. These repairs
  are invoiced on an identical basis to other damage caused by third parties a cost recovery of
  repair costs undertaken by our emergency works contractor.

Orion pays the CCC's share of its dividend to CCHL, but otherwise has no transactions with CCHL.

#### Business relationships with other CCC and SDC-controlled entities:

Orion negotiates with all the CCC and SDC controlled entities on an arm's length basis, ie, as though they were unrelated.

Orion provides delivery services through electricity retailers using standard terms and conditions. Orion invoices Lyttelton Port Company directly for delivery services on the same terms and conditions as for other major customers.

City Care provides tree cutting services to Orion following a successful tender awarded on a lowest-price conforming tender basis. Such tenders are sourced from multiple parties. In addition, City Care provides some other services to Orion but generally these are provided as a subcontractor to another contractor. During FY20 Orion paid City Care \$1.0m (2019: \$1.0m) for opex and capex - refer to schedule 5b (iii) of our FY20 Information Disclosures for additional information.

Orion invoices City Care and Enable and their contractors for repair costs when the activities of these companies lead to damage to Orion's network. These repairs are invoiced on an identical basis to other damage caused by third parties.

As noted above, Orion has limited interaction with the other CCC and SDC-controlled or associated entities.

#### 4. Summary of procurement policy and practices

#### We seek to:

- procure goods and services which are fit for purpose
- achieve best value for money over whole-of-life
- encourage open, effective and sustainable competition between eligible suppliers
- ensure any purchases from related parties are genuinely arms-length transactions
- behave ethically and have fair and transparent procurement processes that are free from fraud and impropriety
- comply with all applicable legal and contractual obligations
- effectively mitigate and/or manage any potential conflicts of interest in an open and acceptable manner
- treat related and unrelated parties consistently.

Our purchasing occurs in a framework supported by a number of policies and procedures, including our:

- procurement policy, which articulates how we seek to maximise the overall benefits that can be delivered through its procurement activity, enabling us to deliver value for money and ensure lawfulness, fairness and integrity at all times
- delegations of authority policy, through which we establish clear responsibility, authority, scope
  and involvement in all operational decision making, and maintain adequate control of the business
  while at the same time empowering employees with adequate responsibility to make decisions
- reporting serious wrongdoing (whistleblower) policy, which aims to facilitate the prompt reporting
  and investigation of suspected or actual serious wrongdoing, protect those who report serious
  wrongdoing, and set out our procedure to receive and deal with reported serious wrongdoing
- conflict of interest policy, which aims to ensure that all Orion directors and employees understand and effectively identify, disclose and manage actual or potential conflicts of interest
- fraud and theft policy, which states our commitment to the prevention, deterrence, detection and investigation of fraud and theft, as these will undermine our activities and damage our reputation and the reputation of all of our stakeholders, including our employees and our shareholders

- Matatika code of ethics, which states the ethical standards required of all Orion directors and employees
- contract delivery guide, a procedural document which details the processes that we use in seeking and managing competitive tenders for contracted works
- environmental sustainability policy, which outlines our commitment to environmental and social responsibility in our operations, and
- processes published within our asset management plan.

We utilise Orion-authorised service providers for our network works. These contractors must show competence in the specialised areas of work and comply with relevant legislation – eg, Health, safety and environmental responsibilities.

It is in Orion's best interest to encourage open, effective and sustainable competition between eligible suppliers. This approach ensures a competitive market, ongoing skill development and a resilient contractor pool available to support our business.

Orion established Connetics as a standalone company in 1996 to introduce competition to maintenance and construction works. Connetics is treated at arms-length – that is, no differently from any other contractor in our tendering processes.

All large Orion projects are tendered to multiple approved contractors, and are awarded on a lowest-price conforming tender basis. Orion has no in-house construction or maintenance team.

We have a number of contractors in each of our network construction and maintenance activities, as follows:

	Authorised Service Providers				
Category of Work	Related Party		Related Party		
	Connetics	City Care	Non-related Parties	Service Providers	
Underground works	1	-	4	5	
Overhead works	1	-	3	4	
Substation works	1	-	5	6	
Property works	-	-	8	8	
Vegetation management	-	1	3	4	
Livening agent	1	-	6	7	
Design	1	-	4	5	

Our preferred procurement method is to seek tenders from multiple approved contractors for virtually all works above \$20,000. In FY20 we called for tenders for 168 projects totalling \$32m (FY19: 268 projects totalling \$35m). Of these, 96 were awarded to Connetics (FY19: 80) and two were awarded to City Care (FY19: four). In addition, in FY20:

- we sole-sourced six projects from Connetics in FY20 at a total cost of \$0.3m
- we sole-sourced eight projects from Connetics in FY20 due to the requirement for specialist skills. These amounted to \$0.6m..

We evaluated the projects sole tendered to Connetics based on either schedule of rates or previous jobs to ensure pricing was at arms-length. We also sole tender to other approved contractors.

For works with an estimated cost of between \$5,000 and \$20,000, a job manager will seek a minimum of two quoted prices from approved contractors. In FY20 we had just over 600 around projects in this category (FY19: 900). Of these, 161 were awarded to Connetics (FY19: 132) and one was awarded to City Care (FY19: six).

For minor works with an estimated cost of below \$5,000, a job manager can sole-source from a contractor, either on a quoted or time and materials basis. In FY20 we had around 5,700 projects in this category (FY19: 8,000). Of these, around two fifths were awarded to Connetics and nine were awarded to City Care (FY19: one quarter and 14, respectively).

For low value works (below the \$5,000 threshold) the manager assesses the reasonableness of the price given their knowledge of the requirements and similar and recent works undertaken.

#### 5. Example of procurement policy in practice

Some examples of our procurement policy in practice follow.

- a) Tender 2020/138E 11kV Switchgear Replacement Hoon Hay zone substation (\$1.3m). We sought tenders from Connetics and other unrelated parties. All contractors provided conforming tenders. Connetics was awarded the contract as it provided the lowest tender price
- b) Tender 2020/058E 33/11kV Line Refurbishment, Hororata zone substation Homebush School Lane (\$0.3m). We sought tenders from Connetics and one other unrelated party. Both contractors provided conforming tenders. The other contractor was awarded the contract as it provided the lowest tender price
- c) Tender 2020/194E- HV Safety Cut Shands Rd (\$0.1m). We sought tenders from City Care and two other unrelated parties. All contractors provided conforming tenders. City Care was awarded the contract as it provided the lowest tender price
- d) Tender 2020/117E HV Safety Cut Darfield/Kimberly (\$0.3m). We sought tenders from City Care and two other unrelated parties. Two contractors provided conforming tenders and one contractor declined to tender. An unrelated party awarded the contract as it provided the lowest conforming tender price
- e) Quote to swap distribution transformer, estimated cost above \$5,000 and below \$20,000. Quotes sought from Connetics and one other contractor. The job was awarded to Connetics due to the lower quoted price provided
- f) Quote to carry out Coleridge scheduled maintenance repairs required, estimated cost above \$5,000 and below \$20,000. Quotes sought from Connetics and one other contractor. The job was awarded to the other contractor due to the lower quoted price provided
- g) Quote to remove a willow hedge, estimated cost above \$5,000 and below \$20,000. Quotes sought from City Care and one other contractor. The job was awarded to City Care due to the lower quoted price provided

- h) Following an emergency repair, Connetics was instructed to straighten pole and replace the 7/18 conductor. Orion's job manager chose Connetics from amongst our contractor pool. The job was undertaken on a time and materials basis using a negotiated schedule of rates, and cost \$3,404.27. Our job manager considered that the hours and materials used were reasonable given his extensive experience
- i) Following an emergency repair, an unrelated party was instructed to replace a boundary box. The same Orion job manager as in example (h) chose the contractor from amongst our contractor pool. The job was undertaken on a time and materials basis using a negotiated schedule of rates, and cost \$3,323.04. Our job manager considered that the hours and materials used were reasonable given his extensive experience
- j) In some cases it is not practical to establish multiple competing tenders given the size of our market and the limited range of participants. For example, we have negotiated emergency works contracts with several providers, including Connetics, and we have had these independently assessed. Such contracts rely on a schedule of rates and our job managers assess the reasonableness of the time and materials used in completing tasks undertaken by our contractors. We have also had independent reviews completed to ensure that other contracts such as the cable management agreement we have with Connetics are consistent with an arms-length approach.

#### 6. Representative transactions and testing of those transactions

As noted above, we test the basis of all of our transactions regularly and do not differentiate between our related and unrelated parties. We:

- continually test our significant transactions through our tendering system or by comparing two or more quotes
- make assessments of untendered minor works by assessing the reasonableness of the quoted price or estimate
- have engaged PwC to assess the reasonableness of the schedules of rates negotiated with Connetics and with other unrelated contractors.

#### 7. Policies or procedures that require or have the effect of requiring purchase

As discussed in section 3 above, Orion requires that all cable to be installed on our network is sourced from Connetics. This requirement ensures that cable installed meets certain technical specifications and quality standards, so that the cable lasts for the design life of the asset. Orion engineers form part of the selection panel when choosing suppliers to provide cable. Connetics' supply group sells cable to Connetics' contracting group on an identical basis to all other contractors. Orion also works with Connetics to ensure cable stocks on hand are sufficient for Orion projects given often substantial lead times. This contract applies until 30 September 2020 but will likely be renegotiated with Connetics.

Other than this arrangement, we have no policies or procedures that have the effect of requiring purchase from our related parties. Customers who require a new connection can choose a contractor from a schedule of contractors who are approved to operate on Orion's network. Developers, including subdividers, can also choose from a range of contractors, and Orion will connect the assets provided that the assets meet Orion's technical specifications.

#### 8. Map of anticipated expenditure and network constraints

These are attached as an appendix to this document. Region A is primarily Orion's urban network and region B the rural network. Orion will generally tender this work with approved contractors, and award the contract to the lowest price conforming tenderer.

Connetics will generally be an approved tenderer for many of these projects, but the tender process will determine the successful contractor. In some projects and programmes – for example, vegetation and property management – Connetics does not take part in the tender rounds. As noted in section 7, it is likely that for some years Orion will require that cable to be used in the projects is sourced from Connetics.

IDD clauses 2.3.13 (3) and (4) require Orion to disclose where projects address possible future network equipment constraints and their location, where the response to the constraints would involve one of the ten largest opex or capex projects in the planning period. Notation on the map identifies the major reason for the each of our identified projects. In summary:

- in Region A, our projects will:
  - o add capacity in northern Christchurch to address constraints
  - o improve security of supply in northern and eastern Christchurch
  - o improve resilience as we replace older 66kV oil-filled cables
- in Region B, our projects will address the ongoing load growth in the Rolleston and Dunsandel areas through the establishment of a new point of supply at Norwood and extensive associated works.

Refer to section 6 of our Asset Management Plan Update 2020 for further information.



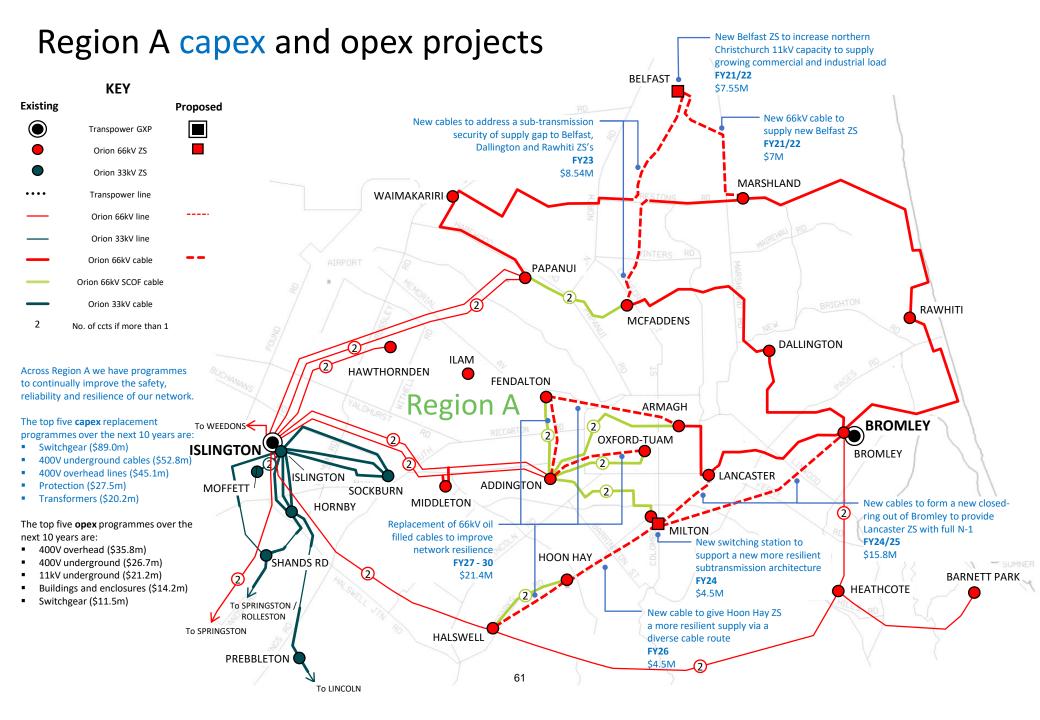
## **Orion New Zealand Limited**

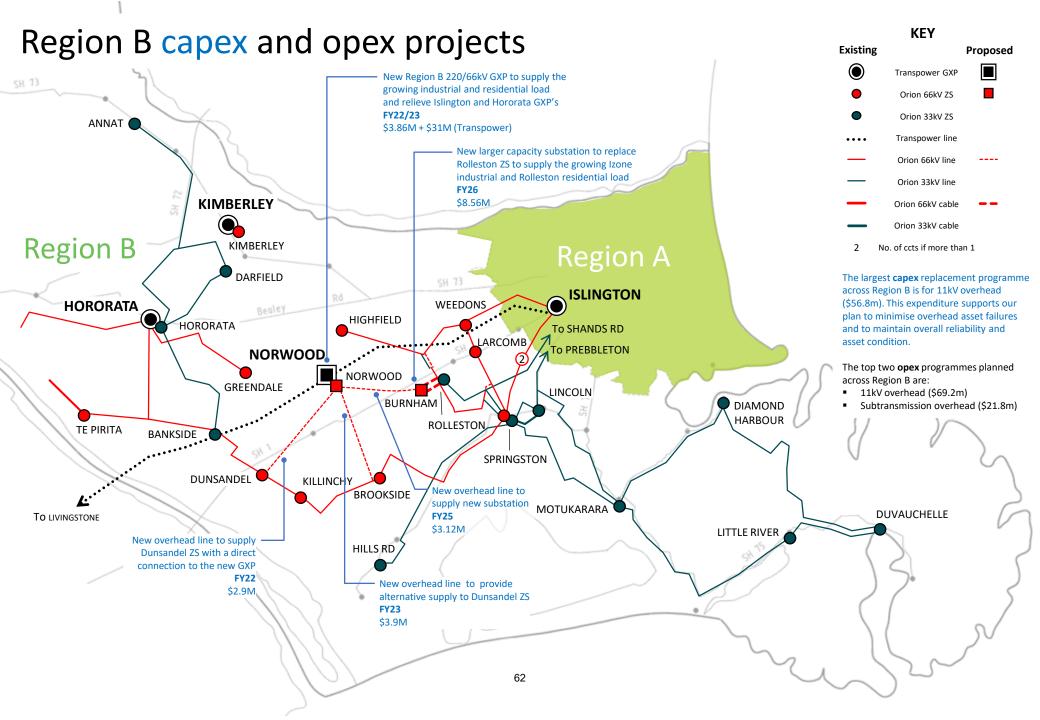
# Maps of anticipated expenditure and network constraints

for the ten year period beginning 1 April 2020

Region A – urban network

Region B – rural network







### **Certification for year-end disclosures**

We, Deborah Jane Taylor and Bruce Donald Gemmell, being directors of Orion New Zealand Limited certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the information prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2 and 2.7.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10 and 14 has been properly extracted from Orion New Zealand Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained
- c) in respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that
  - the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
  - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012
- d) the SAIDI and SAIFI information has been reported consistently with the Commerce Commission's *Information Disclosure exemption: Disclosure and auditing of reliability information within Schedule 10*, dated 9 April 2020.

Jane Taylor

**Bruce Gemmell** 

31 August 2020



#### **Independent Assurance Report**

#### To the directors of Orion New Zealand Limited and the Commerce Commission

The Auditor-General is the auditor of Orion New Zealand Limited (the Company). The Auditor-General has appointed me, John Mackey, using the staff and resources of Audit New Zealand, to provide an opinion, on his behalf, on:

• Whether the information ("the Disclosure Information") required to be disclosed in accordance with the Electricity Distribution Information Disclosure Determination 2012, as amended by the Information Disclosure exemption: Disclosure and auditing of reliability information within schedule 10, issued by the Commerce Commission on 9 April 2020 ("the Information Disclosure Determination, as amended") for the disclosure year ended 31 March 2020, has been prepared, in all material respects, in accordance with the Information Disclosure Determination, as amended.

The Disclosure Information required to be reported by the Company, and audited by the Auditor-General, under the Information Disclosure Determination, as amended, is in schedules 1 to 4, 5a to 5g, 6a and 6b, and 7, the disclosure that shows the connection between the Electricity Distribution Business (EDB) and the related parties with which it has had related party transactions in the disclosure year, the disclosure of the EDB's related party procurement policy, the disclosures about related party transactions required under clause 2.3.12 of the Information Disclosure Determination, the system average interruption duration index ("SAIDI") and system average interruption frequency index ("SAIFI") information disclosed in schedule 10 and the explanatory notes in boxes 1 to 11, in schedule 14.

• Whether the Company's basis for valuation of related party transactions ("the Related Party Transaction Information") for the disclosure year ended 31 March 2020, has been prepared, in all material respects, in accordance with clause 2.3.6 of the Information Disclosure Determination, as amended, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 ("the Input Methodologies Determination").

#### **Opinion**

#### In our opinion:

- as far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the Company;
- as far as appears from an examination, the information used in the preparation of the
  Disclosure Information has been properly extracted from the Company's accounting and
  other records and has been sourced, where appropriate, from the Company's financial and
  non-financial systems;
- the Disclosure Information complies, in all material respects, with the Information Disclosure Determination, as amended; and

 the Related Party Transaction Information complies, in all material respects, with the Information Disclosure Determination, as amended, and the Input Methodologies Determination.

In forming our opinion, we have obtained sufficient recorded evidence and all the information and explanations we have required.

#### **Basis of opinion**

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): Assurance Engagements Other Than Audits or Reviews of Historical Financial Information and the Standard on Assurance Engagements 3100 (Revised): Compliance Engagements issued by the New Zealand Auditing and Assurance Standards Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, with the Information Disclosure Determination, as amended, and about whether the Related Party Transaction Information has been prepared, in all material respects, with the Information Disclosure Determination, as amended, and the Input Methodologies Determination. Reasonable assurance is a high level of assurance.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information, and the basis of valuation in the Related Party Transaction Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information and the Related Party Transaction Information, whether due to fraud, error or non-compliance with the Information Disclosure Determination, as amended, or the Input Methodologies Determination. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Disclosure Information and the Related Party Transaction Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.

#### Scope and inherent limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Disclosure Information or the Related Party Transaction Information, nor do we guarantee complete accuracy of the Disclosure Information or the Related Party Transaction Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information or the Related Party Transaction Information.

The opinion expressed in this independent assurance report has been formed on the above basis.

#### **Key Assurance Matters**

Key assurance matters are those matters that, in our professional judgement, required significant attention when carrying out the assurance engagement during the current disclosure year. These matters were addressed in the context of our audit, and in forming our opinion. We do not provide a separate opinion on these matters.

#### Key assurance matter

# Accuracy of the number and duration of electricity outages

The Company has automated systems to identify outages and to record the duration of outages. This outage information is used to report the Company's Report on Network Reliability in schedule 10. If this information is inaccurate then the measures of the reliability of the network could be materially misstated.

This is a key audit matter because information on the frequency and duration of outages is an important measure of the reliability of electricity supply. Relatively small inaccuracies can have a significant impact on the reliability thresholds against which the Company's performance is assessed.

There can also be significant consequences if the Company breaches the reliability thresholds.

The Commission has issued an Exemption notice which, if it applies, excludes the assurance report from coverage of the information, in schedule 10 of the ID determination, for any issues arising out of the EDB's recording of SAIDI, SAIFI and number of interruptions due to successive interruptions. We need to ensure that the Company meets the criteria for the Exemption to apply, including that it makes the necessary disclosures so the exclusion to the assurance opinion applies.

#### How our procedures addressed the key assurance matter

We have obtained an understanding of the Company's system to record electricity outages, and their duration. This included review of the Company's definition of interruptions, planned interruptions and major event days.

Our procedures to assess the adequacy of the Company's methods to identify and record electricity outages and their duration included:

- review and testing of the overall control environment;
- use of IT auditors to specifically test the reliability of the automated processes used to record the details of interruptions to supply;
- obtaining internal and external information on interruptions to supply to gain assurance that all interruptions to supply were recorded. Internal and external information sources included works orders for contractors, media reports and Board minutes;
- confirming the interruptions to supply information used in the SAIDI and SAIFI calculations was appropriately extracted from the automated system;
- testing a sample of interruptions to supply to source records to conclude whether they were correctly categorised;
- checked the SAIDI and SAIFI ratios were correctly calculated in accordance with the Information Disclosure Determination, as amended, and the Input Methodologies Determination;
- obtained explanations for all significant variances to forecast; and
- testing the accuracy of the number of connections to the Electricity Authority's register.

With respect to the Exemption, we:

 obtained and documented our understanding of the Company's methods by which electricity outages and their duration are recorded where an outage event results in successive interruptions of supply;

#### Key assurance matter

#### How our procedures addressed the key assurance matter

- compared this to the documented process that the Company followed in the previous year; and
- identified potential incidences of successive interruptions of supply to ensure that the Company's methods, by which electricity outages and their duration are recorded where an outage event results in successive interruptions of supply, was the same for both years.

Having carried out these procedures, and in assessed the likelihood of reported electricity outages and their duration being materially misstated in the Disclosure Information, we have no matters to report.

# Valuation of related-party transactions at arm's-length

The Information Disclosure
Determination, as amended and the Input
Methodologies Determination place a
requirement on the Company to value
related-party procurement transactions
at a value not greater than arm's-length.
In other words, the value at which a
transaction, with the same terms and
conditions, would be entered into
between a willing seller and a willing
buyer who are unrelated and who are
acting independently of each other and
pursuing their own best interests.

In the absence of an active market for related-party transactions, assignment of an objective arm's-length value to a related-party transaction is difficult.

This is a key audit matter because the requirement involve considerable judgement by Company personnel. In turn, verification of the appropriate assignment of an objective arm's-length valuation to related-party transactions requires, the exercise of significant professional judgement by the auditor.

We have obtained an understanding of the Company's approach to identifying and valuing related-party transactions at arm's-length in accordance with the Information Disclosure Determination, as amended and the Input Methodologies Determination. We confirmed the approach used is in accordance with the Information Disclosure Determination, as amended and the Input Methodologies Determination.

The procedures we have carried out to satisfy ourselves that related-party transactions are appropriately valued at arm's-length included:

- Testing the completeness of the related-parties identified through review of Board minutes, review of Companies Office records, and related-parties identified through detailed testing of transactions and balances in the annual financial statements audit.
- Reviewing the appropriateness of procurement policies, especially with related parties, for the different categories of procurement transactions.
- Testing samples of transactions, with related parties for the different categories of procurement for compliance with policies. This included reviewing tender evaluations, and quotes obtained to ensure transactions are at arm's length.
- Confirming that opinions obtained by the Company from external experts, with the appropriate knowledge and expertise in the prior year still remain appropriate, , on the reasonableness of the approach adopted to determine arm's-length value for related-party transactions for:
  - a significant lease;
  - the major emergency works contract;

Key assurance matter	How our procedures addressed the key assurance matter
	o the cable management contract;
	<ul> <li>network storage and supply; and</li> </ul>
	o design work.
	Comparison of sales transactions for undergrounding of overhead lines against the depreciated fair value of the replaced assets.
	Confirming the material accuracy of related party values disclosed, and compliance of their calculation with the Information Disclosure Determination and the Input Methodologies Determination.
	Our review of the external expert's work included assessment of the appropriateness of the expert's approach, the reasonableness of the assumptions applied, and the conclusion reached. We also assessed the expert's competence, and objectivity.
	The total variance between our estimates and the Company's estimates of its arm's length values assigned to related party transactions was not considered to be material.
	No matters arose from carrying out the above procedures.

# Directors' responsibility for the preparation of the Disclosure Information and Related Party Transaction Information

The directors of the Company are responsible for:

- the preparation of the Disclosure Information in accordance with the Information Disclosure Determination, as amended; and
- the Related Party Transaction Information in accordance with the Information Disclosure Determination, as amended, and the Input Methodologies Determination.

The directors are responsible for such internal control as the directors determine is necessary to enable the preparation of the Disclosure Information and the Related Party Transaction Information that are free from material misstatement.

# Our responsibility for the audit of the Disclosure Information and the Related Party Transaction Information

Our responsibility is to express an opinion on whether:

• the Disclosure Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination, as amended; and

• the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination, as amended, and the Input Methodologies Determination.

#### Independence and quality control

When carrying out the engagement, we complied with:

- the Auditor-General's independence and other ethical requirements, which incorporate the
  independence and ethical requirements of Professional and Ethical Standard 1 (Revised)
  issued by the New Zealand Auditing and Assurance Standards Board;
- the independence requirements specified in the Information Disclosure Determination, as amended; and
- the Auditor-General's quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

The Auditor-General, and his employees, may deal with the Company and its subsidiaries on normal terms within the ordinary course of trading activities of the Company and its subsidiaries. Other than any dealings on normal terms within the ordinary course of business, this engagement, the default price path assurance engagement and the annual audit of the Company and its subsidiaries' financial statements, we have no relationship with or interests in the Company and its subsidiaries.

#### Use of this report

This independent assurance report has been prepared solely for the directors of the Company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination, as amended, and whether the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination, as amended, and the Input Methodologies Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the Company or the Commerce Commission, or for any other purpose than that for which it was prepared.

0

John Mackey Audit New Zealand On behalf of the Auditor-General Christchurch, New Zealand 31 August 2020