For the disclosure year ending 31 March 2022

INFORMATION DISCLOSURE



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Company Name	Aurora Energy Limited
For Year Ended	31 March 2022

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch rej	e		,,, · · · · · · · · · · · · · · · · · ·	,		,
7	1(i): Expenditure metrics	Expenditure per GWh energy	Expenditure per average no. of	Expenditure per MW maximum coincident system	Expenditure per	Expenditure per MVA of capacity from EDB- owned distribution
8		delivered to ICPs (\$/GWh)	ICPs (\$/ICP)	demand (\$/MW)	km circuit length (\$/km)	transformers (\$/MVA)
9	Operational expenditure	35,393	496	149,951	7,446	49,108
10	Network	15,045	211	63,744	3,165	20,876
11	Non-network	20,348	285	86,207	4,280	28,232
12						<u> </u>
13	Expenditure on assets	65,322	915	276,752	13,742	90,635
14	Network	62,307	873	263,981	13,107	86,452
15	Non-network	3,014	42	12,771	634	4,183
16						
17	1(ii): Revenue metrics					
		Revenue per GWh energy delivered to ICPs	Revenue per average no. of ICPs			
18		(\$/GWh)	(\$/ICP)	7		
19	Total consumer line charge revenue	80,969	1,134			
20	Standard consumer line charge revenue	72,583	1,010			
21	Non-standard consumer line charge revenue	1,243,290	818,015			
22	1/III). Comico intercito meconomo					
23	I(III): Service intensity measures					
24	Demand density	50	Mavimum coinc	ident system doman	d nar km of circuit l	anoth (for supply) (k) (k)
25	Volumo dopsity	210	Total operav del	iverad to ICPs par kr	a per kin of circuit i	or cupply) (MW/b/km)
20	Connection point density	15	Average pumbe	r of ICPs per km of si	ir oj circuit iengtin (j	on supply) (www.i/kiii)
27	Energy intensity	14 011	Total energy del	ivered to ICPs per a	ieraae number of IC	De (kWh/ICP)
20	Lifergy intensity	14,011	rotar energy der	wereu to ier s per uv	eruge number of re	
30	1(iv): Composition of regulatory income					
31	-()		(\$000)	% of revenue		
32	Operational expenditure		46,260	44.31%		
33	Pass-through and recoverable costs excluding financial incenti	ves and wash-ups	30,915	29.61%		
34	Total depreciation		22,502	21.55%		
35	Total revaluations		37,128	35.56%		
36	Regulatory tax allowance		1,640	1.57%		
37	Regulatory profit/(loss) including financial incentives and was	n-ups	40,220	38.52%		
38	Total regulatory income		104,409			
39				-		
40 41	1(v): Reliability					
42	Interruption rate		26.28	Interruptions per	r 100 circuit km	

	Company Name	Auro	ra Energy Limi	ted
	For Year Ended	3	1 March 2022	
SC This calco mus EDB This	HEDULE 2: REPORT ON RETURN ON INVESTMENT schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's es ulate 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 n it be provided in 2(iii). s must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject	timates of post tax WA nakes this election, info to the assurance repo	CC and vanilla WAC ormation supporting rt required by sectio	C. EDBs must g this calculation on 2.8.
sch ref				
7 8	2(i): Return on Investment	CY-2 31 Mar 20	CY-1 31 Mar 21	Current Year CY 31 Mar 22
10	Reflecting all revenue earned	2.23%	1.46%	6.98%
11	Excluding revenue earned from financial incentives	2.32%	4.30%	9.33%
12	Excluding revenue earned from financial incentives and wash-ups	2.44%	4.30%	9.33%
13	Mid point activate of pact tay WACC	4 27%	2 72%	2 5 2%
14	25th percentile estimate	3.59%	3.04%	2.84%
16	75th percentile estimate	4.95%	4.40%	4.20%
17				
18 19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	2.65%	1.79%	7.27%
21	Excluding revenue earned from financial incentives	2.74%	4.63%	9.63%
22	Excluding revenue earned from financial incentives and wash-ups	2.86%	4.63%	9.63%
23	WACC rate used to set regulatory price path	7 19%	4 57%	4 57%
25		7.1576	4.5776	4.5776
26	Mid-point estimate of vanilla WACC	4.69%	4.05%	3.82%
27	25th percentile estimate	4.01%	3.37%	3.14%
28 29	75th percentile estimate	5.37%	4.73%	4.50%
30	2(ii): Information Supporting the ROI		(\$000)	
31	Total opening RAB value	539,722		
33	plus Opening deferred tax	(27,147)		
34	Opening RIV	L	512,575	
35	Line charge revenue		105.829	
37				
38	Expenses cash outflow	77,175		
39	add Assets commissioned	93,006		
40	add Tax payments	(1.500)		
42	less Other regulated income	(1,420)		
43	Mid-year net cash outflows	L	168,014	
44 45	Term credit spread differential allowance	Г	-	
46		<u> </u>		
47	Total closing RAB value	645,301		
48	less Adjustment resulting from asset allocation	34		
49 50	plus Closing deferred tax	(30.287)		
51	Closing RIV		614,980	
52				
53	KUI – comparable to a vanilla WACC			1.21%
55	Leverage (%)		[42%
56	Cost of debt assumption (%)			2.55%
57	Corporate tax rate (%)			28%
58	ROI – comparable to a post tax WACC		1	6.98%
60				

				-					
Company Name Aurora Energy Limited									
	For Year Ended 31 March 2022								
This calc mu EDE This	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 re 61 62	f 2(iii): Information Supporting the	e Monthly ROI							
63 64	Opening RIV						N/A		
65		Line charge	Expenses cash	Assets	Asset	Other regulated	Monthly net cash		
67	April	revenue	outflow	commissioned	disposais	Income	–		
68	Мау						-		
69 70	June						-		
70	July								
72	Sentember								
73	October								
74	November						-		
75	December						-		
76	January						-		
77	February						-		
78	March						-		
79	Total	-	-	-	-	-	-		
80 81 82	Tax payments						N/A		
83 84	Term credit spread differential allov	vance					N/A		
85 86	Closing RIV						N/A		
87 88	Monthly ROI – comparable to a vanilla	WACC					N/A		
89 90 91	Monthly ROI – comparable to a post ta	IX WACC					N/A		
92 93	2(iv): Year-End ROI Rates for Con	nparison Purposes							
94 95	Year-end ROI – comparable to a vanilla	a WACC					10.31%		
96 97	Year-end ROI – comparable to a post to	ax WACC	2012 disalasuna k				10.01%		
98 99 100	2(v): Financial Incentives and Wa	ish-Ups	n pre 2012 aisciosures b	y EDBS ana ao not rep	resent the Commi	ssion's current view o	n kul.		
101	Net recoverable casts allowed up de	incremental rolling incost	ive scheme			(16.014)	1		
102	Purchased assets – avoided transmis	sion charge				(10,014)			
104	Energy efficiency and demand incent	ive allowance							
105	Quality incentive adjustment					(614)			
106 107	Other financial incentives Financial incentives					-	(17,428)		
108 109	Impact of financial incentives on ROI						-2.35%		
110	Input methodology claw-back					-	1		
112	CPP application recoverable costs					-			
113	Catastrophic event allowance					-			
114	Capex wash-up adjustment								
115	Transmission asset wash-up adjustme	ent				-			
116	2013–15 NPV wash-up allowance					-			
117	Reconsideration event allowance					-			
118	Utner wash-ups Wash-up costs								
120	wasinup costs								
121	Impact of wash-up costs on ROI						-		

		te even at tractional
	Company Name Aurora E	inergy Limited
-	For Year Ended 51 W	
S	CHEDULE 3: REPORT ON REGULATORY PROFIT	
Th th Th	iis schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and g eir regulatory profit in Schedule 14 (Mandatory Explanatory Notes). iis 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 r	provide explanatory comment on required by section 2.8.
sch r	ef	
7	3(i): Regulatory Profit	(\$000)
8		
9	Line charge revenue	105.829
10	plus Gains / llosses) on asset disposals	(2.087)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	667
12		
13	Total regulatory income	104,409
14	Expenses	
15	less Operational expenditure	46,260
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	30,915
19	Operating surplus / (deficit)	27 234
20	Operating surpros / trenet/	21,234
20	less Total depreciation	22 502
22		
23	plus Total revaluations	37.128
24		
25	Regulatory profit / (loss) before tax	41,861
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	1,640
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	40,220
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	1,031
36	Commerce Act levies	280
37	Industry levies	345
38	CPP specified pass through costs	1,879
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	21,848
41	Transpower new investment contract charges	424
42	System operator services	-
43	Distributed generation allowance	5,074
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	34
46 47	Pass-through and recoverable costs excluding financial incentives and wash-ups	30,915

	Company Name Au	rora Energy Lim	ited					
	For Year Ended	31 March 2022						
S								
5								
in th	is schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all section air regulatory profit in Schedule 14 (Mandatory Explanatory Notes)	is and provide explai	natory comment on					
Th	is 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 se	ection 2.8.					
sch re	f							
	2/iii), Incrementel Delling Incentive Coheme	Iti	200)					
48	3(III): Incremental Rolling Incentive Scheme	(\$0	,000					
49 50		CY-1 31 Mar 21	CY 31 Mar 22					
51	Allowed controllable opex							
52	Actual controllable opex							
53		-						
54	Incremental change in year							
55								
			Previous years'					
		Previous years'	incremental					
56		change	for inflation					
57	CY-5 31 Mar 17							
58	CY-4 31 Mar 18							
59	CY-3 31 Mar 19							
60	CY-2 31 Mar 20							
61	CY-1 31 Mar 21							
62	Net incremental rolling incentive scheme		-					
63								
64	Net recoverable costs allowed under incremental rolling incentive scheme		_					
65	3(iv): Merger and Acquisition Expenditure							
70			(\$000)					
66	Merger and acquisition expenditure							
67								
	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including re	quired disclosures in	accordance with					
68	section 2.7, in Schedule 14 (Mandatory Explanatory Notes)							
69	3(v): Other Disclosures							
70			(\$000)					
71	Self-insurance allowance							

				Maria [A	no En once Lineite	
			C.	For Voar Endod	Auro 3	1 March 2022	a
s	CHEDILLE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORW)		'	-or rear Enaea		1 101011 2022	
Thi: EDE req	s schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This in Bs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is p juired by section 2.8.	forms the ROI calculation in Schedu art of audited disclosure information	ule 2. on (as defined in secti	on 1.4 of the ID dete	ermination), and so is	subject to the assum	ance report
sch rej	f						
7 8 9	4(i): Regulatory Asset Base Value (Rolled Forward)	for year ended	RAB 31 Mar 18 (\$000)	RAB 31 Mar 19 (\$000)	RAB 31 Mar 20 (\$000)	RAB 31 Mar 21 (\$000)	RAB 31 Mar 22 (\$000)
10	Total opening RAB value		354,222	394,155	447,072	489,854	539,722
11 12 13	less Total depreciation	l	13,710	15,058	16,809	20,358	22,502
14	plus Total revaluations		3,878	5,824	11,277	7,402	37,128
15 16 17	plus Assets commissioned	l	50,335	63,004	49,227	61,073	93,006
18	less Asset disposals	l	570	853	912	830	2,087
19 20 21	plus Lost and found assets adjustment	l		-	-	2,581	_
22	plus Adjustment resulting from asset allocation		-	-	-	-	34
23 24 25	Total closing RAB value	l	394,155	447,072	489,854	539,722	645,301
26	4/ii): Unallocated Regulatory Asset Base						
27 28				Unallocate (\$000)	d RAB * (\$000)	RAB (\$000)	(\$000)
29 30	Total opening RAB value			L	540,594	L	539,722
31	Total depreciation			E	22,546		22,502
32 33	plus Total revaluations			Г	37,188	Г	37,128
34	plus		Г				
35 36	Assets commissioned (other than below) Assets acquired from a regulated supplier			49,148	_	49,148	
37	Assets acquired from a related party		L	43,858	02.000	43,858	02.000
38 39	less		_		93,006		93,006
40	Asset disposals (other than below)		-	2,087	-	2,087	
41 42	Asset disposals to a regulated supplier Asset disposals to a related party		F	-		-	
43	Asset disposals		-		2,087		2,087
44 45 46	plus Lost and found assets adjustment			C			
47	plus Adjustment resulting from asset allocation						34
48 49	Total closing RAB value			Γ	646,155		645,301
50	* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services with services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works un	out any allowance being made for a der construction.	the allocation of costs	to services provided	d by the supplier that	t are not electricity d	istribution

		Company Name	Aur	ora Energy Lim	ited
		For Year Ended		31 March 2022	
s	CHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (BOLLED FORWARD)				
Thi	is schedule requires information on the calculation of the Regulatory Asset Base (RAR) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2				
ED	Bs 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 det	termination), and so	is subject to the ass	urance report
rec	uired by section 2.8.				
sch re	<i>4</i>				
51					
51					
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets				
53					
54	CPI4				1,142
55	CPI4 ⁴				1,068
56	Revaluation rate (%)				6.93%
57				_	
58		Unallocat	ed RAB *	R/	4B (*****)
59		(\$000)	(\$000)	(\$000)	(\$000)
60	local opening KAB value	540,594		539,722	
62	ress Opening value or runy depreciated, disposed and lost assets	3,874	ļ	3,874	
63	Total opening RAB value subject to revaluation	536,720		535.848	Ì
64	Total revaluations		37,188		37,128
65					
66	4(iv): Roll Forward of Works Under Construction				
		Unallocated	works under		
67		constr	uction	Allocated works u	nder construction
68	Works under construction—preceding disclosure year		48,751		48,750
69	plus Capital expenditure	71,831		71,832	
70	less Assets commissioned	93,006		93,006	
71	plus Adjustment resulting from asset allocation			-	
72	Works under construction - current disclosure year		27,576		27,576
73					
74	Highest rate of capitalised finance applied				2.85%
/5					

							(Company Name	Aur	ora Energy Limi	ted
								For Vear Ended		31 March 2022	
50			CCET BACE					Tor rear Endea			
30						alaulatian in Cabadu	1- 2				
EDI	is schedule requires information on the calculation of the Regulator Bs must provide explanatory comment on the value of their RAB in	Schedule 14 (Mandat	orv Explanatory No	is disclosure year. Il tes). This informatio	nis informs the ROI of n is part of audited (lisclosure informatio	ile 2. on (as defined in sect	tion 1.4 of the ID de	termination), and so	is subject to the ass	urance report
req	quired by section 2.8.	benedure 11 (mandat							certification, and se		
	<i>,</i>										
sch rej	ţ										
76	4(v): Regulatory Depreciation										
77								Unallocat	ted RAB *	RA	B
78								(\$000)	(\$000)	(\$000)	(\$000)
79	Depreciation - standard						_	20,292		20,292	
80	Depreciation - no standard life assets						-	2,254		2,210	
81	Depreciation - modified life assets						_	-		-	
82	Depreciation - alternative depreciation in accorda	nce with CPP					L	-		-	
83	Total depreciation								22,546		22,502
84											
85	4(vi): Disclosure of Changes to Depreciation	Profiles						(\$000)	inless otherwise sn	cified)	
00								(2000)		, and a grade of the second seco	
										Closing RAB value	
									Depreciation	under 'non-	Closing RAB value
									charge for the	standard'	under 'standard'
86	Asset or assets with changes to depreciation*				Reaso	n for non-standard	depreciation (text e	entry)	period (RAB)	depreciation	depreciation
87											
88											
89											
91											
92											
93											
94											
95	* include additional rows if needed										
96	4(vii): Disclosure by Asset Category										
97						(\$000 unless oth	erwise specified)				
		Subtransmission	Subtransmission		Distribution and	Distribution and	Distribution	Distribution	Other network	Non-notwork	
98		lines	cables	Zone substations	LV lines	LV cables	transformers	switchgear	assets	assets	Total
99	Total opening RAB value	18,327	21,398	92,806	145,176	144,062	63,798	27,283	20,483	6,388	539,722
100	less Total depreciation	798	653	3,593	4,783	4,749	2,358	1,437	1,923	2,210	22,502
101	plus Total revaluations	1,262	1,483	6,325	9,937	9,982	4,420	<u>1,</u> 890	<u>1,</u> 403	426	37,128
102	plus Assets commissioned	14,948	4,431	14,098	35,047	10,739	4,417	6,638	1,476	1,213	93,006
103	less Asset disposals	322	-	-	1,765	-	-	_	-	-	2,087
104	plus Lost and found assets adjustment	_	-	-	-	-	-	-		-	-
105	plus Adjustment resulting from asset allocation	_	-	-	-	-	-	-	-	34	34
106	plus Asset category transfers	-	-	-	-	-	-	-	-	-	-
107	Total closing RAB value	33,418	26,659	109,636	183,612	160,034	70,277	34,375	21,439	5,851	645,301
108											
109	Asset Life										(
110	Weighted average remaining asset life	22.6	32.8	25.8	30.0	30.3	27.1	19.0	10.6	2.9	(years)
111	weighted average expected total asset life	46.7	54.1	49.9	53.1	51.8	51.0	39.5	15.4	8.0	(years)

		Company Name	Aurora Energy Limited
		For Year Ended	31 March 2022
SC	HEDULE 5a: REPORT ON RE	GULATORY TAX ALLOWANCE	
This prof This 2 9 sch ref	schedule requires information on the calcul iti). EDBs must provide explanatory commen information is part of audited disclosure inf	ation of the regulatory tax allowance. This information is used to calculate regula tary on the information disclosed in this schedule, in Schedule 14 (Mandatory Ex ormation (as defined in section 1.4 of the ID determination), and so is subject to	atory profit/loss in Schedule 3 (regulatory xplanatory Notes). the assurance report required by section
_	Eo/i), Bogulatory Tay Allowa		(\$000)
/	Sa(i): Regulatory Tax Allowa		(3000)
8	Regulatory profit / (loss) befo	re tax	41,861
10	plus Income not included in reg	ulatory profit / (loss) before tax but taxable	_ *
11	Expenditure or loss in regul	atory profit / (loss) before tax but not deductible	11 *
12	Amortisation of initial diffe	rences in asset values	4,956
13	Amortisation of revaluation	S	2,749
14			7,716
15			
16	less Total revaluations		37,128
17	Income included in regulate	pry profit / (loss) before tax but not taxable	*
18	Discretionary discounts and	customer rebates	
19	Expenditure or loss deducti	ble but not in regulatory profit / (loss) before tax	1,170 *
20	Notional deductible interes	t	5,421
21			43,719
22	Regulatory taxable income		5 858
24	negativery taxable meane		3,030
25	less Utilised tax losses		-
26	Regulatory net taxable inco	me	5,858
27			
28	Corporate tax rate (%)		28%
29	Regulatory tax allowance		1,640
30	*		
31	 Workings to be provided in Schedu 	e 14	
32	5a(ii): Disclosure of Permane	nt Differences	
33	In Schedule 14, Box 5, prov	de descriptions and workings of items recorded in the asterisked categories in So	chedule 5a(i).
34	5a(iii): Amortisation of Initia	Difference in Asset Values	(\$000)
35			
36	Opening unamortised initia	differences in asset values	78,853
37	less Amortisation of initial diffe	rences in asset values	4,956
38	plus Adjustment for unamortise	d initial differences in assets acquired	-
39	less Adjustment for unamortise	d initial differences in assets disposed	410
40	Closing unamortised initial	differences in asset values	73,487
41			
42	Opening weighted average	remaining useful life of relevant assets (years)	16

			Aurora Francis I	instead
		Company Name	Aurora Energy L	
			SI Warch 20	122
SC This prof This	schedule requirements fit). EDBs muss information i	5a: REPORT ON REGULATORY TAX ALLOWANCE uires information on the calculation of the regulatory tax allowance. This information is used to calculate regu t provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory I s part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to	llatory profit/loss in Schedul Explanatory Notes). o the assurance report requi	e 3 (regulatory red by section
ch rej	f _ 44 X			
44	5a(iv):	Amortisation of Revaluations		(\$000)
45 46		Opening sum of RAB values without revaluations	487.342	
47				
48		Adjusted depreciation	19,753	
49		Total depreciation	22,502	
50		Amortisation of revaluations		2,749
51	_ /			
52	5a(v): F	leconciliation of Tax Losses		(\$000)
53				
54		Opening tax losses		
55 56	pius	Litilised tax losses		
57	1035	Closing tax losses		-
58	5a(vi):	Calculation of Deferred Tax Balance		(\$000)
59				
60		Opening deferred tax	(27,147)	
61				
62 62	plus	Tax effect of adjusted depreciation	5,531	
63	less	Tay effect of tay depreciation	9 100	
65	1035		5,100	
66	plus	Tax effect of other temporary differences*	1,578	
67				
68	less	Tax effect of amortisation of initial differences in asset values	1,388	
69				
70	plus	Deferred tax balance relating to assets acquired in the disclosure year		
71	1000	Defensed to under coloring to excete disposed in the displayure user	(248)	
72	less	Deferred tax balance relating to assets disposed in the disclosure year	(248)	
74	plus	Deferred tax cost allocation adjustment	(9)	
75				
76		Closing deferred tax		(30,287)
77				
78	5a(vii):	Disclosure of Temporary Differences		
79		in scheaule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Sch differences).	reaule 5a(vi) (Tax effect of o	tner temporary
80				
81	5a(viii)	Regulatory Tax Asset Base Roll-Forward		
82				(\$000)
83		Opening sum of regulatory tax asset values	331,463	
84	less	Tax depreciation	32,499	
85	plus	Regulatory tax asset value of assets commissioned	107,374	
86	less	Regulatory tax asset value of asset disposals	1,202	
87	plus	Lost and found assets adjustment		
88 80	plus	Aujustment resulting from asset allocation Other adjustments to the RAB tax value		
90	pius	Closing sum of regulatory tax asset values		405,136

		Company Name	Aurora Energy Limited	
		For Year Ended	31 March 2022	
SC	HEDULE 5b: REPORT ON RELATED P	ARTY TRANSACTIONS		
This This	schedule provides information on the valuation of related principal information is part of audited disclosure information (as de	party transactions, in accordance with clause 2.3. fined in clause 1.4 of the ID determination), and s	6 of the ID determination. so is subject to the assurance report required	d by clause 2.8.
7	5b(i): Summary—Related Party Transac	tions	(\$000)	(\$000)
8	Total regulatory income			-
9			_	
0	Market value of asset disposals			-
1				
2	Service interruptions and emergencies		3,081	
3 1	Routine and corrective maintenance and	inspection	5,454	
5	Asset replacement and renewal (opex)	inspection	-	
6	Network opex			17,842
7	Business support		266	
8	System operations and network support		90	
9	Operational expenditure			18,198
20	Consumer connection		5,779	
21	System growth		416	
22	Asset replacement and renewal (capex)		25,286	
3	Asset relocations		672	
4 15	Quality of supply			
5	Other reliability safety and environment		- 174	
27	Expenditure on non-network assets			170
8	Expenditure on assets		F	32,497
9	Cost of financing			-
80	Value of capital contributions			4,794
81	Value of vested assets		_	-
32	Capital Expenditure			27,703
3	Total expenditure		L	45,901
4	Other related party transactions		F	000
	Sh (!!!) Total Oney and Canay Palated Pa		L	
86	So(iii): Total Opex and Capex Related Pa	arty transactions		
87	Name of related party	Nature of opex or capex service		Total value of transactions (ちのの)
88	Delta Utility Services Ltd	Service interruptions and emergencies		3,081
9	Delta Utility Services Ltd	Vegetation management		5,454
10	Delta Utility Services Ltd	Routine and corrective maintenance and ins	pection	9,307
11	Delta Utility Services Ltd	System operations and network support		90
12	Delta Utility Services Ltd	Business support		225
	Dunedin Venues Management Ltd	Business support		6
3	Dunedin City Council	Business support		34
13 14	Dunedin Airport Ltd	Business support		1
13 14 15	Balles (1971) - Control - Control			5,779
13 14 15 16	Delta Utility Services Ltd	Consumer connection		140
43 44 45 46 47	Delta Utility Services Ltd Delta Utility Services Ltd Delta Utility Services Ltd	Consumer connection System growth Asset replacement and represent (represe)		416
13 14 15 16 17 18	Delta Utility Services Ltd Delta Utility Services Ltd Delta Utility Services Ltd Delta Itility Services Ltd	Consumer connection System growth Asset replacement and renewal (capex) Asset relocations		416 25,286
13 14 15 16 17 18 19	Delta Utility Services Ltd	Consumer connection System growth Asset replacement and renewal (capex) Asset relocations Other reliability, safety and environment		416 25,286 672 174
13 14 15 16 17 18 19 50 51	Delta Utility Services Ltd Delta Utility Services Ltd	Consumer connection System growth Asset replacement and renewal (capex) Asset relocations Other reliability, safety and environment Expenditure on non-network assets		416 25,286 672 174 170

S Th Th	CHEDULE is schedule is is information	5c: REPORT ON TERM CREDIT SPREAD DIFFERE only to be completed if, as at the date of the most recently published financia is part of audited disclosure information (as defined in section 1.4 of the ID d	NTIAL ALLOV I statements, the we etermination), and s	WANCE eighted average orig so is subject to the a	inal tenor of the deb ssurance report requ	it portfolio (both qualif uired by section 2.8.	ying debt and non-q	Company Name For Year Ended ualifying debt) is gre	Aurora Ene 31 Marc	rgy Limited :h 2022
sch r	ef									
8	5c(i): C	ualifying Debt (may be Commission only)								
9	50(1). 0									
5										
10		Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
11										
12										
13										
14										
15			<u> </u>							
16 17		* include additional rows if needed						-	-	
17	5c(ii): /	Attribution of Term Credit Spread Differential								
10	56(11).7	and building renn creat spread binerential								
20	G	oss term credit spread differential			_					
21										
22		Total book value of interest bearing debt]					
23		Leverage		42%						
24		Average opening and closing RAB values								
25	A	tribution Rate (%)			-					
26 27	Te	rm credit spread differential allowance			_					

			Company Name	Au	rora Energy Lim	ited
			For Year Ended		31 March 2022	
S	CHEDULE 5d: REPORT ON COST ALLOCATIONS					
Thi	s schedule provides information on the allocation of operational costs. FDBs must provide explanatory comment on their cost allocation	n in Schedule 14 (Manda	tory Explanatory Note	es) including on the	mnact of any reclass	ifications
Thi	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	nce report required by s	section 2.8.	is, merdanig on the	impact of any reclass	
ch re	f					
7	Ed/i): Operating Cost Allocations					
,	Sully. Operating Cost Allocations					
8			Value alloca	ted (\$000s)		
		Arm's length	Electricity	Non-electricity		OVABAA allocation
9		deduction	services	services	Total	increase (\$000s)
10	Service interruptions and emergencies					
11	Directly attributable		3,152			
12	Not directly attributable		-		-	
13	Total attributable to regulated service		3,152			
14	Vegetation management					
15	Directly attributable		5,462			
16	Not directly attributable		-		-	
17	Total attributable to regulated service		5,462			
18	Routine and corrective maintenance and inspection					
19	Directly attributable		11,051			
20	Not directly attributable		-		-	
21	Total attributable to regulated service		11,051			
22	Asset replacement and renewal					
23	Directly attributable		-			
24	Not directly attributable		-		-	
25	Total attributable to regulated service		-			
26	System operations and network support					
27	Directly attributable		12,969			
28	Not directly attributable		-		-	
29	Total attributable to regulated service		12,969			
30	Business support					
31	Directly attributable		13,626			
32	Not directly attributable		-		-	
33	Total attributable to regulated service		13,626			
34	Operating costs directly attributable		46.300			
35	Operating costs ont directly attributable		46,260			
37	Operational expenditure		46.260			_
20			40,200			

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
CHEDULE 5d: REPORT ON COST ALLOCATIONS		
is schedule provides information on the allocation of operational costs. EDBs must provide explanatory comme	nt on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), inclu	uding on the impact of any reclassifications.
is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and s	o is subject to the assurance report required by section 2.8.	
5d(ii): Other Cost Allocations		
Pass through and recoverable costs	(\$000)	
Pass through costs		
Directly attributable	3,535	
Not directly attributable	— — — — — — — — — — — — — — — — — — —	
Total attributable to regulated service	3,535	
Recoverable costs		
Directly attributable	27,380	
Not directly attributable	-	
Total attributable to regulated service	27,380	
5d(iii): Changes in Cost Allocations* †		
		(\$000)
Change in cost allocation 1	<u></u>	CY-1 Current Year (CY)
Cost category	Original allocation	
Original allocator or line items	New allocation	
New allocator or line items	Difference	
Rationale for change		
		(\$000)
Change in cost allocation 2		CY-1 Current Year (CY)
Cost category	Original allocation	
Original allocator or line items	New allocation	
New allocator or line items	Difference	
Rationale for change		
		(\$200)
Change in sect ellectrics 2		(\$000)
	Original allocation	
Original allocator or line items	New allocation	
New allocator or line items	Difference	
Rationale for change		
* a change in cost allocation must be completed for each cost allocator change that has occurred in the dis	closure year A movement in an allocator metric is not a change in allocator of	r component

		Company Name	Aurora Energy Limited
		For Year Ended	31 March 2022
S	CHEDULE 5e: REPORT ON ASSET ALLOCA	TIONS	
Th	s schedule requires information on the allocation of asset value	. This information supports the calculation of the RAB value in Schedule 4.	
ED dis	Bs must provide explanatory comment on their cost allocation in closure information (as defined in section 1.4 of the ID determir	Schedule 14 (Mandatory Explanatory Notes), including on the impact of any ation), and so is subject to the assurance report required by section 2.8.	changes in asset allocations. This information is part of audited
ch rej			
7	5e(i): Regulated Service Asset Values		
			Marcalla and
8			(\$000s)
			Electricity distribution
10	Subtransmission lines		sei vices
11	Directly attributable		33,418
12	Not directly attributable		
13	Total attributable to regulated service		33,418
14	Subtransmission cables		30.000
15 16	Not directly attributable		
17	Total attributable to regulated service		26,659
18	Zone substations		
19	Directly attributable		109,636
20 21	Not directly attributable Total attributable to regulated service		109.636
22	Distribution and LV lines		
23	Directly attributable		183,612
24	Not directly attributable		_
25	Total attributable to regulated service		183,612
20	Directly attributable		160.034
28	Not directly attributable		
29	Total attributable to regulated service		160,034
30	Distribution substations and transformers		
31	Directly attributable Not directly attributable		
33	Total attributable to regulated service		70,277
34	Distribution switchgear		
35	Directly attributable		34,375
36 37	Not directly attributable Total attributable to regulated service		34 375
38	Other network assets		54,575
39	Directly attributable		18,796
40	Not directly attributable		2,643
41	Total attributable to regulated service		21,439
42	Directly attributable		5.851
44	Not directly attributable		
45	Total attributable to regulated service		5,851
46 47	Regulated service asset value directly attributable		642.658
48	Regulated service asset value not directly attributal	le	2,643
49	Total closing RAB value		645,301
50			
51	5e(ii): Changes in Asset Allocations* †		
52			(\$000)
53 54	Change in asset value allocation 1 Asset category		Original allocation
55	Original allocator or line items		New allocation
56	New allocator or line items		Difference – –
57 58	Rationale for change		
59			
60			
61 62	Change in asset volve allocation 2		(\$000)
63	Asset category		Original allocation
64	Original allocator or line items		New allocation
65	New allocator or line items		Difference – –
67	Rationale for change		
68			
69			
70 71	Change in asset value allocation 3		(\$000) CY-1 Current Year (CY)
72	Asset category		Original allocation
73	Original allocator or line items		New allocation
74	New allocator or line items		Difference – –
75 76	Rationale for change		
77			
78	* a change in asset allocation must be seen lated for	locator or component change that has accured in the disclosure	wement in an allocator metric is not a change in allocator and
79 80	 change in asset allocation must be completed for each a † include additional rows if needed 	ocator or component change that has occurred in the disclosure year. A ma	wement in an anotator metric is not a change in allocator or compone

	Company Name		imited
	For Year Ended	31 March 2	022
S			
Th ex EC Th	his schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which kcluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must e DBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). his information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurant	capital contributions xclude finance costs. ce report required by	are received, but
sch re	ef		
	Í am a c		
7	6a(I): Expenditure on Assets	(\$000)	(\$000)
8 9	System growth		5.032
10	Asset replacement and renewal		55,426
11	Asset relocations		1,256
12	Reliability, safety and environment:		ı.
13	Quality of supply	351	
14	Other reliability, safety and environment	2.195	
16	Total reliability, safety and environment		2,546
17	Expenditure on network assets		81,438
18	Expenditure on non-network assets		3,940
19			
20	Expenditure on assets		85,378
21	less Value of capital contributions		13,946
23	plus Value of vested assets		-
24			
25	Capital expenditure		71,832
26	62(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
20	Energy efficiency and demand side management reduction of energy losses		(\$555)
28	Overhead to underground conversion		
29	Research and development		
30	6a(III): Consumer Connection	(\$000)	(\$000)
31	Consumer types defined by EDB*	(\$000)	(\$000)
33		1,,1,0	
34			
35			
36			
37	* include additional rows if needed		17 178
39	Consumer connection expenditore		17,178
40	less Capital contributions funding consumer connection expenditure	13,054	
41	Consumer connection less capital contributions		4,124
42	6a(iv): System Growth and Asset Replacement and Renewal		Asset Replacement and
43		System Growth	Renewal
44		(\$000)	(\$000)
45	Subtransmission	369	12,502
40	Distribution and LV lines	3,365	26 648
48	Distribution and LV cables	38	339
49	Distribution substations and transformers	120	579
50	Distribution switchgear	117	6,229
51	Other network assets	-	1,187
52	less Capital contributions funding system growth and asset replacement and renewal		- 55,420
54	System growth and asset replacement and renewal less capital contributions	5,032	55,426
55			
	Coluly Asset Delegations		
56	balv): Asset Kelocations	(\$000)	(\$000)
5/	Timaru River Road, Lake Haves	(2000)	(2000)
59	Mountain View Road, Queenstown	187	
60	Hallenstein Street, Queenstown	168	
61	O'Connells Pavillion redevelopment, Queenstown	132	
62			
63 64	* include additional rows if needed All other projects or programmes - asset relocations	E01	
65	Asset relocations expenditure		1,256
66	less Capital contributions funding asset relocations	892	
67	Asset relocations less capital contributions		364

		Company Name	Aurora Energy Lin	nited
		For Year Ended	31 March 202	2
SC	CHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLO	SURE YEAR		
Thi. exc EDE This	is schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including cluding assets that are vested assets. Information on expenditure on assets must be provided on an accour Bs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), a	any assets in respect of nting accruals basis and n o Templates). and so is subject to the as	which capital contributions ar nust exclude finance costs. isurance report required by se	re received, but ection 2.8.
sch rej	र्श			
69	6a(vi): Quality of Supply			
70	Project or programme*		(\$000)	(\$000)
71	Alexandra 11kV switchboard		246	
72				
73 74				
75				
76	* include additional rows if needed			
78	An other projects programmes - quality of supply Quality of supply expenditure		105	351
79	less Capital contributions funding quality of supply			
80	Quality of supply less capital contributions			351
81	6a(vii): Legislative and Regulatory			
82	Project or programme*		(\$000)	(\$000)
83 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 92	less Capital contributions funding legislative and regulatory Legislative and regulatory less capital contributions			_
			L	
93 94	ba(VIII): Utner Reliability, Safety and Environment Project or programme*		(\$000)	(\$000)
95	Omakau transformer - backup power supply		1,551	(0000)
96				
97 98				
99				
100	* include additional rows if needed			
101 102	An other projects or programmes - other reliability, safety and environment Other reliability, safety and environment expenditure		644	2.195
103	less Capital contributions funding other reliability, safety and environment			
104 105	Other reliability, safety and environment less capital contributions		Ľ	2,195
205				
106	ba(IX): Non-Network Assets			
108	Project or programme*		(\$000)	(\$000)
109	Right-of-use assets		629	
110 111				
112				
113				
114 115	 Include adaitional rows if needed All other projects or programmes - routine expenditure 		111	
116	Routine expenditure			740
117	Atypical expenditure			
118	Project or programme*		(\$000)	(\$000)
119 120	Development or asset management system Development of outage management system		2,098	
121	New offices		348	
122				
123 124	* include additional rows if needed			
125	All other projects or programmes - atypical expenditure		503	
126	Atypical expenditure		Ľ	3,200
127 128	Expenditure on non-network assets			3 940
				5,570

	Company Name	Aurora Ener	gy Limited
	For Year Ended	31 Marc	h 2022
S	CHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR		
Th	is schedule requires a breakdown of operational expenditure incurred in the disclosure year.		
ED	Bs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanator	y comment on any at	ypical operational
ex	penditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insura	ince.	
Th	is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance repor	t required by section	2.8.
sch	rof		
SCIT			
7	6b(i): Operational Expenditure	(\$000)	(\$000)
8	Service interruptions and emergencies	3,152	
9	Vegetation management	5,462	
10	Routine and corrective maintenance and inspection	11,051	
11	Asset replacement and renewal	-	
12	Network opex		19,665
13	System operations and network support	12,969	
14	Business support	13,626	
15	Non-network opex	L	26,595
16		-	
17	Operational expenditure	L	46,260
18	6b(ii): Subcomponents of Operational Expenditure (where known)		
19	Energy efficiency and demand side management, reduction of energy losses	Γ	_
20	Direct billing*	F	_
21	Research and development	-	_
22	Insurance		412
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		

Company Name

Aurora Energy Limited

For Year Ended

31 March 2022

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.

7	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
8	Line charge revenue	107,100	105,829	(1%)
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	8,632	17,178	99%
11	System growth	4,635	5,032	9%
12	Asset replacement and renewal	59,106	55,426	(6%)
13	Asset relocations	1,967	1,256	(36%)
14	Reliability, safety and environment:			
15	Quality of supply	594	351	(41%)
16	Legislative and regulatory	-	-	-
17	Other reliability, safety and environment	-	2,195	-
18	Total reliability, safety and environment	594	2,546	329%
19	Expenditure on network assets	74,934	81,438	9%
20	Expenditure on non-network assets	6,086	3,940	(35%)
21	Expenditure on assets	81,020	85,378	5%
22	7(iii): Operational Expenditure			
22		4 701	2 1 5 2	(24%)
25	Vegetation management	4,791	5,132	(3478)
24	Politing and corrective maintenance and increation	10 527	11 051	478 E%
25	Asset replacement and renewal	-	-	
27	Network onex	20 562	19 665	(4%)
28	System operations and network sunnort	16 291	12,005	(20%)
20	Business support	15,222	13 626	(10%)
30	Non-network opex	31.513	26,595	(16%)
31	Operational expenditure	52,075	46,260	(11%)
22	7/iv): Subcomponents of Expenditure on Assets (where known)			
22	Energy efficiency and demand side management reduction of energy losses			
37	Overhead to underground conversion			
35	Recearch and development	_	_	_
36		· I		
27	7(v): Subcomponents of Operational Expenditure (where known	`		
20				
38	Energy efficiency and demand side management, reduction of energy losses	-	_	_
39	Direct billing	-	_	_
40	Research and development	-	-	_
41	insurance	-	412	_
42	1. From the nominal dollar target revenue for the disclosure way disclosed up to struce 2.4.	2(2) of this dotors	tion	
45	2 From the nonlinal donar target revenue for the disclosure year disclosed under clause 2.4.			
11	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2. disclosure year (the second to last disclosure of Schedules 11a and 11b)	.6.6 for the forecast p	eriod starting at the	beginning of the
44	מוזבוטיגערב אבער (נווב גבנטווע נט ועגנ עוזבוטיגערב טן גבוופטעובא 110 מווע 110)			

ULE 8: REPORT ON BILL	ED QUANTITIES AND LI	NE CHARGE REVENU	ES										C I Network / Sub-I	ompany Name For Year Ended letwork Name	Auro	ra Energy Lim 11 March 2022 Fotal Network
ule requires the billed quantities and as	contract of the charge revenues for each	price category code used by the E	EDB in its pricing schedules. Info	ormation is also required on	the number of ICPs that are included in each consumer group or price category co	de, and the energy del	livered to these ICP	s.								
,						Billed quantities by p	rice component									
					Price component	Fixed (Distribution)	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Transformer Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)
Consumer group name or pric category code	e Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)	LS	Lamp	kWh	kVA	kVA x km	kW	kVA	15	kWh	kVA	kW
Provide and all	Deside at a															
Load Group 0	General	Standard	/8,090	618,624		28,520,310	-	618,624,273	- 102	-	-	-	117.641	617,880,611	-	
Load Group 04	General	Standard	322	109		117,041	-	-	103	-	-	-	117,041	-	-	-
Load Group 1A	General	Standard	918	2 948		335 393	_	-	2 680 112	-	321 478	_	-	_	2 677 192	321 113
									-,,							4 00 4 3 70
Load Group 1	General	Standard	5,669	41,669		2,071,131	-	-	31,034,565	-	4,904,278	-	-	-	31,034,565	4,904,278
Load Group 1 Load Group 2	General General	Standard Standard	5,669 6,920	41,669 259,512		2,071,131 2,527,671	-	-	31,034,565 125,689,573	-	4,904,278 17,157,044	- (511)	-	-	31,034,565 125,649,058	4,904,278
Load Group 1 Load Group 2 Load Group 2	General General General	Standard Standard Non-standard	5,669 6,920 0	41,669 259,512 -		2,071,131 2,527,671 36	-	-	31,034,565 125,689,573 -		4,904,278 17,157,044 -	- (511) -	-		31,034,565 125,649,058 -	4,904,278 17,153,688 -
Load Group 1 Load Group 2 Load Group 2 Load Group 3	General General General General	Standard Standard Non-standard Standard	5,669 6,920 0 226	41,669 259,512 - 56,972		2,071,131 2,527,671 36 82,562			31,034,565 125,689,573 - 15,964,274	- - - 259,953,289	4,904,278 17,157,044 - 3,391,453	- (511) - (140)		-	31,034,565 125,649,058 - 15,964,274	4,904,278 17,153,688 - 3,391,453
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3	General General General General General	Standard Standard Non-standard Standard Non-standard	5,669 6,920 0 226 0	41,669 259,512 - 56,972 -		2,071,131 2,527,671 36 82,562 24	- - - - -		31,034,565 125,689,573 - 15,964,274 -	- - - 259,953,289 -	4,904,278 17,157,044 - 3,391,453 -	- (511) - (140) -			31,034,565 125,649,058 - 15,964,274 -	4,904,278 17,153,688 - 3,391,453 -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3A	General General General General General	Standard Standard Non-standard Standard Non-standard Standard	5,669 6,920 0 226 0 178	41,669 259,512 - 56,972 - 82,890		2,071,131 2,527,671 36 82,562 24 65,010			31,034,565 125,689,573 - 15,964,274 - 19,882,352	- - - 259,953,289 - 280,163,907	4,904,278 17,157,044 - 3,391,453 - 4,957,438	- (511) - (140) - (543)			31,034,565 125,649,058 - 15,964,274 - 19,882,352	4,904,278 17,153,688 - 3,391,453 - 4,957,438
Load Group 1 Load Group 2 Load Group 3 Load Group 3 Load Group 3A Load Group 3A	General General General General General General General	Standard Standard Non-standard Non-standard Standard Standard Non-standard	5,669 6,920 0 226 0 178 0	41,669 259,512 - 56,972 - 82,890 -		2,071,131 2,527,671 36 82,562 24 65,010 24		-	31,034,565 125,689,573 - 15,964,274 - 19,882,352 -	- - - 259,953,289 - - 280,163,907 -	4,904,278 17,157,044 - 3,391,453 - 4,957,438 -	- (511) - (140) - (543) -			31,034,565 125,649,058 - 15,964,274 - 19,882,352 -	4,904,778 17,153,688 - 3,391,453 - 4,957,438 -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3A Load Group 3A Load Group 3A	General General General General General General General General	Standard Standard Non-standard Standard Standard Standard Non-standard Standard Standard	5,669 6,920 0 226 0 178 0 178 0 143	41,669 259,512 - 56,972 - 82,890 - 169,121		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110			31,034,565 125,689,573 - 15,964,274 - 19,882,352 - 37,070,000	- - 259,953,289 - 280,163,907 - 556,226,885	4,904,278 17,157,044 - 3,391,453 - 4,957,438 - 9,237,279	- (511) - (140) - (543) - 91,133	- - - - - - - - - - -	- - - - - - - - - - - -	31,034,565 125,649,058 - 15,964,274 - 19,882,352 - 37,070,000	4,904,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3A Load Group 3A Load Group 3A Load Group 4 Load Group 4 Load Group 4	General General General General General General General General General	Standard Standard Non-standard Standard Non-standard Non-standard Standard Non-standard	5,669 6,920 0 226 0 178 0 143 1 1	41,669 259,512 - - 82,90 - - 169,121 3,952		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365			31,034,565 125,689,573 - 15,964,274 - 19,882,352 - 37,070,000 -	- - 259,953,289 - 280,163,907 - 556,226,885 -	4,904,278 17,157,044 - 3,391,453 - 4,957,438 - 9,237,279 -	- (511) - (140) - (543) - 91,133	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - -	31,034,565 125,649,058 15,964,274 - 19,882,352 - 37,070,000 - -	4,904,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279 -
Load Group 1 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 4 Load Group 5	General General General General General General General General General General General	Standard Standard Non-standard Standard Standard Non-standard Standard Non-standard Non-standard Standard Standard Standard	5,669 6,920 0 226 0 178 0 143 1 443 1 1 8	41,669 259,512 82,890 169,121 3,952 57,878		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365 2,921	- - - - - - - - - - - - -		31,034,565 125,689,573 - - 15,964,274 - 19,882,352 - 37,070,000 - - 8,687,000	- - 259,953,289 - 280,163,907 - 556,226,885 - 108,909,065	4,904,278 17,157,044 - 3,39145 - 4,957,438 - 9,237,279 - 2,416,343	- (511) - (140) - (543) - 91,133 - 8,167	- - - - - - - - - 365 -	- - - - - - - - - - - -	31,034,565 125,649,058 - - 15,964,274 - 19,882,352 - 37,070,000 - - 8,687,000	4,904,278 17,153,68 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 5 Load Group 5 Load Group 5 Screet Linbino	General General General General General General General General General General General General General	Standard Standard Non-standard Non-standard Standard Non-standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	5,669 6,920 0 226 0 178 0 143 1 3 1 8 1 1 8	44,669 259,512 - - - - - - - - - - - - - - - - - - -		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365 2,921 365 720	- - - - - - - - - - - -		31,034,565 125,689,573 - 15,964,274 - 19,882,352 - - 37,070,000 - 8,687,000 - -	- - - 259,953,289 - 280,163,907 - 5556,226,885 - - 108,909,065 -	4,904,278 17,157,044 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 - -	- (511) - (140) - (543) 91,133 8,167	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - -	31,034,565 125,649,058 - 15,964,274 - 19,882,352 - 37,070,000 - 8,687,000 -	4,304,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 5 Street Lighting Other 4 Street Lighting	General General General General General General General General General General General General	Standard Standard Non-standard Non-standard Standard Standard Standard Non-standard Non-standard Non-standard Non-standard Standard Standard Standard Standard Standard	5,569 6,920 0 226 0 178 0 178 143 1 8 8 1 1 8 1 1 3	44,669 259,512 - - 82,890 - - 169,121 3,952 57,878 5,410 6,144		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365 2,921 365 730	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	31,034,565 125,689,573 - 15,964,274 - 19,882,352 - 37,070,000 - - 8,687,000 - -	- - 259,953,289 - 280,163,907 - 556,226,885 - 108,909,065 - -	4,904,278 17,157,044 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 - - -	- (511) - (140) - (543) - 91,133 - 8,167 - -	- - - - - - - - - - - - - - - 365 730	- - - - - - - - - - - - - - - - - - -	31,034,565 125,649,058 - - 15,964,274 - - 19,882,352 - - 8,687,000 - - - 8,687,000 - -	4,909,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 - - -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3A Load Group 3A Load Group 4 Load Group 4 Load Group 5 Load Group 5 Street Lighting DUML excl Street Lighting DUML excl Street Lighting	General General General General General General General General General General General General General General General General	Standard Standard Non-standard Non-standard Standard Non-standard Standard Non-standard Standard Standard Standard Standard Standard Mon-standard Standard Non-standard	5,569 6,520 0 226 0 178 0 143 1 1 8 1 1 1 8 1 1 1 3 - - - 1 1 1 1 2 -	44,669 259,512 - - - 82,890 - - 169,121 3,952 57,878 5,410 6,144 4 4		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365 2,921 365 730 -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	31,034,565 125,689,573 - 15,964,274 - 19,882,352 - 37,070,000 - 8,687,000 - - - - -	- - 259,953,289 - 280,163,907 - 556,226,885 - 108,909,065 - - - - - - - - -	4,904,278 17,157,044 - 3,391,453 - - 9,237,279 - 2,416,343 - - - - - - - - - - - - -	- (511) - (140) - (543) - 91,133 - 91,133 - 8,167 	- - - - - - - - - - 365 - - - 365 730 - -	- - - - - - - - 1,737,897 3,614	31,034,565 125,649,058 - 15,964,274 - 19,982,352 - 37,070,000 - 8,687,000 - - - - -	4,909,278 17,153,688 - - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 - - - - - - - - - - - - -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 5 Street Lighting DUML, each Street Lighting DUML, each Street Lighting Distributed Generation (Large) Add eating rays for get/filtion	General General General General General General General General General General General General General General General General	Sandard Sandard Non-tandard Sandard Non-tandard Sandard Sandard Non-tandard Sandard Non-tandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard	5,569 6,520 0 226 0 141 1 8 141 1 8 1 3 3 - 2 2 2	44,669 259,512 - - - 82,890 - - - 169,121 3,952 5,7878 5,410 6,144 4 -		2,071,131 2,527,671 36 82,562 24 65,010 24 52,110 365 2,921 365 730 -	- - - - - - - - - - - - - 2,709,444 - -	- - - - - - - - - - - - - - - - - - -	31,034,565 125,689,573 - 15,964,274 - 19,882,352 - 37,070,000 - 8,687,000 - - - - - -	- - 259.953,289 - 280,163,907 - 556,226,885 - - 108,909,065 - - - - - - -	4,904,278 17,157,044 - 3,391,453 - - 9,237,279 - 2,416,343 - - - - - - - - - - - - -	- (511) - (140) - 91,133 - 8,167 - - - - - - - - -	- - - - - - - - - - - - 365 - - 365 - 730 - - - - - - - - - - - - - - - - - - -	- - - - - - - 1,737,897 3,614 -	31,034,565 125,649,058 - - 15,964,274 - - 19,887,352 - - 37,070,000 - - 8,687,000 - - - - - - - - - -	a,909,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279 - 2,416,343 - - - - - - - - - - - - -
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 4 Load Group 5 Street Lighting DUML exit Street Lighting DUML exit Street Lighting Add extra rows for additional C	General General	Sandard Sandard Non-standard Sandard Mon-standard Sandard Sandard Mon-standard Sandard	5,569 6,520 0 226 0 178 0 1,43 1 1 1 8 1 1 1 1 2 2 93,273	4,669 255,512 - - - - - - - - - - - - - - - - - - -		2,071,131 2,527,671 36 82,562 24 65,010 24 452,110 365 2,921 365 730 - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	31,034,555 125,695,573 - 15,964,274 - 19,882,352 - 37,070,000 - - 8,687,000 - - - - - - - 241,008,319		4,904,278 17,157,044 - 3,391,453 - - 9,237,279 - 2,416,343 - - - - 42,385,313	- (511) - (140) - (543) 91,133 - 8,167			31,034,565 125,649,058 - 15,964,274 - - 19,882,352 - 37,070,000 - - 8,687,000 - - - - - - - - - - - - -	4,909,279 17,153,688 - - 3,391,453 - 4,957,438 - - 2,416,343 - - 2,416,343 - - 42,381,592
Load Group 1 Load Group 2 Load Group 2 Load Group 3 Load Group 3 Load Group 3 Load Group 3 Load Group 4 Load Group 4 Load Group 4 Load Group 5 Street Lighting Distratuted Generation (Large) Add extra rows for additional c	General General General General General General General General General General General General General General General General General	Sandard Sandard Non-standard Non-standard Sandard Sandard Non-standard Non-standard Sandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard Sandard Non-standard Sandard Non-standard Cosumer totals	5,660 6,520 0 226 0 178 0 143 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2	41,669 29,9512 		2,071,131 2,527,671 36 82,562 24 65,010 365 2,211 365 7,30 - - - - - - -		- - - - - - - - - - - - - - - - - - -	31,034,655 125,689,573 - - 19,882,352 - - - - - - - - - - - - -	- - 259,953,289 - 280,163,907 - 556,226,885 - - - - - - - - - - - - - - - - - -	4,904,278 17,157,044 - - 3,391,453 - - 4,957,438 - - - 2,416,343 - - - - - - - - - - - - -	- (511) - (140) - (543) - 91,133 8,167			31,034,565 125,649,565 125,649,574 	4,909,278 17,153,688 - 3,391,453 - 4,957,438 - 9,237,279 9,237,279 - 2,416,343 - - - - 42,381,592 - -

																			Company Name	Au	ora Energy Lim	ited
																			For Year Ended		31 March 2022	
																		Network / Sub	-Network Name		Total Network	
T	SCHEDULE 8: REF	PORT ON BILLEI	O QUANTITIES AND LI	NE CHARGE REVENU n price category code used by the l	EDB in its pricing schedules. In	formation is also required on t	the number	of ICPs that are inclu	uded in each consum	er group or price catego	ry code, and the ener	y delivered to these	ICPs.									
31	8(II): Line Chai	rge Revenues (\$0	00) by Price Component																			
33											Line charge rev	nues (\$000) by pric	e component									
34										Price compo	Fixed (Distribution	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Transformer Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)	Add extra
35	Consum	ner group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)		Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, : kWh,	per \$/annum	\$/Lamp	\$ / kWh	\$ / kVA	\$ / kVA x km	\$/kW	\$/kva	\$ / annum	\$ / kWh	\$ / kVA	\$/kW	additional line charge revenues by price component as
37	Resident	tial	Residential	Standard	\$61.938			\$53,951	\$7.987	٦	\$4.7	6 -	\$49.705	-	-	-	-	-	\$7.987	-		necessary
38	Load Gro	oup 0	General	Standard	\$48			\$37	\$11		\$	7 -	-	-	-	-	-	\$11	-	-	-	1
39	Load Gro	oup 0A	General	Standard	\$205			\$158	\$48		\$1	8 -	-	-	-	-	-	\$48	-	-	-	1
40	Load Gro	oup 1A	General	Standard	\$383			\$370	\$12		\$1	- 3	-	\$106	-	\$71	-	(\$25)	-	(\$19)	\$56	4
41	Load Gro	oup 1	General	Standard	\$3,394			\$2,606	\$788		\$	D –	-	\$1,266	-	\$1,270	-	-	-	(\$198)	\$986	1
42	Load Gro	oup 2	General	Standard	\$14,479			\$12,156	\$2,324		\$1		-	\$6,528	-	\$5,448	(\$2)	-	-	(\$1,678)	\$4,002	4
43	Load Gro	oup 2	General	Non-standard	\$5,498			\$5,412	\$86		\$	3 –	-	\$3,217	-	\$2,127	(\$5)	-	-	(\$732)	\$818	4
44	Load Gro	oup 3	General	Standard	\$2,348			\$1,976	\$371		Ş	4 –	-	\$1,206	\$78	\$609	-	-	-	(\$271)	\$642	1 .
45	Load Gro	oup 3	General	Non-standard	\$1,293			\$1,301	(\$8)	-	\$		-	\$529	\$246	\$466	(\$2)	-	-	(\$153)	\$145	1
	Load Gro	oup 3A	General	Standard Non-standard	\$3,411			\$2,745	5000		3		-	\$1,570	\$114	\$987	(\$3)	-	-	(\$378)	\$1,044	i i
	Load Gro	oup 3A	General	Standard	\$1,241			\$1,238	\$1 747	-	2			\$1.618	\$229	\$475	(53)			(\$145) (\$137)	\$148	1
	Load Gro	oup 4	General	Non-standard	\$2,659			\$2,578	\$2,747	-	\$1	8 _	_	\$057	\$494	\$798	\$197	¢55		(\$253)	\$2,005	i i
	Load Gro	oup 5	General	Standard	\$1,345			\$762	\$583	-	s	1 -	-	\$273	\$54	\$331	\$94	-	-	(\$61)	\$644	1
	Load Gro	oup 5	General	Non-standard	\$342			\$244	\$98		s	1 -	-	\$56	\$78	\$18	-	\$116	-	(\$23)	\$6	i i
	Street Lig	ghting	General	Standard	\$544			\$496	\$48		\$4	1 \$4	3 \$12	-	-	-	-	\$45	\$3	-	-	i i
	DUML, e	excl Street Lighting	General	Standard	\$129			\$128	\$1		\$	1 \$6	0 \$47	-	-	-	-	-	\$1	-	-	1
46	Distribut	ted Generation (Large)	General	Non-standard	\$608			\$608	-		\$6	8 -	-	-	-	-	-	-	-	-	_	i i
47	Add extr	ra rows for additional cor	sumer groups or price category co	des as necessary						_					-							
48				Standard consumer totals	\$94,189	-		\$79,603	\$14,586		\$5,6	3 \$10	4 \$49,764	\$12,567	\$440	\$10,374	\$670	\$79	\$7,991	(\$2,743)	\$9,259	1
49				Non-standard consumer totals	\$11,640	-		\$11,380	\$260		\$1,0	9 –	-	\$5,254	\$1,046	\$3,884	\$178	\$170	-	(\$1,305)	\$1,395	
50				Total for all consumers	\$105,829	-		\$90,983	\$14,846	1	\$6,7	2 \$10	4 \$49,764	\$17,820	\$1,487	\$14,258	\$848	\$249	\$7,991	(\$4,048)	\$10,655	1
51 52 53	8(iii): Number Number	r of ICPs directly b of directly billed ICPs at	illed year end	8]			Check	ок]												

SCHEDULE	8: REPORT ON BILLE	D QUANTITIES AND LI	INE CHARGE REVENU	IES										Network / Sub-	Company Name For Year Ended Network Name	Aur	ora Energy Lim 31 March 2022 Jedin Sub-netv	ited /ork
This schedule requ	ires the billed quantities and ass	ociated line charge revenues for each	h price category code used by the E	EDB in its pricing schedules. Infe	rmation is also required or	the number of ICPs that are included in each consumer group or price category co	ode, and the energy	delivered to these I	Рѕ.									
						Price component	Fixed (Distribution)	y price component Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Transformer Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)	Add evtra
	Consumer group name or pric category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	LS	Lamp	kWh	kVA	kVA x km	kW	kVA	LS	kWh	kVA	kW	columns for additional billi quantities bi price compone as necessar
	Residential	Residential	Standard	49,235	401,289		17,970,604		401,288,932						401,288,932			
	Load Group 0	General	Standard	103	47		37,671			103				37,671				
	Load Group 0A	General	Standard	170	371		62,085			340				62,085				
	Load Group 1A	General	Standard	412	1,345		150,297			1,201,936		139,547				1,201,936	139,547	
	Load Group 1	General	Standard	2,850	20,789		1,040,152			15,596,370		2,398,515				15,596,370	2,398,515	
	Load Group 2	General	Standard	3,128	126,362		1,141,765			58,269,044		8,378,642				58,269,044	8,378,642	1
	Load Group 2	General	Non-standard	-	-		-									-	-	_
	Load Group 3	General	Standard	104	29,866		37,847			7,407,070	41,770,924	1,907,318				7,407,070	1,907,318	
	Load Group 3	General	Non-standard	-	-		-									-	-	
	Load Group 3A	General	Standard	91	49,421		33,090			10,093,930	54,326,316	3,170,878	(263)			10,093,930	3,170,878	
	Load Group 3A	General	Non-standard	-	-				l							-	-	1
	Load Group 4	General	Standard	74	99,787		27,135			19,298,000	108,242,101	5,387,544	48,217			19,298,000	5,387,544	
	Load Group 4	General	Non-standard	-	-		<u> </u>						-					1
	Load Group 5	General	Standard	6	46,567		2,190			ь,862,000	47,680,315	2,186,937	8,167			6,862,000	2,186,937	ł
	Load Group 5	General	Non-standard	-	-		-	l					l	770				1
	DUML and Street Lighting	General	Standard	2	4,399		/30		2.614					/30	2.614			
	Distributed Generation (Large)	General	Non standard	-	4		-		3,014						3,014			
	Add extra rows for additional ra	onsumer arouns or price category co	des as necessary	1 1	-			1		I I			1		-	II		
		groups or price coregory to	Standard consumer totals	56.174	780.245		20.503.566	-	401.292.546	118,728,793	252.019.656	23,569,381	56.121	100.486	401.292.546	118.728.350	23.569.381	
			Non-standard consumer totals	1	-		-	-	-	-	-	-	-	-	-	-	-	
			Total for all consumers	56,175	780,245		20,503,566	-	401,292,546	118,728,793	252,019,656	23,569,381	56,121	100,486	401,292,546	118,728,350	23,569,381	1
8 9 0			Total for all consumers	56,175	780,245		20,503,566	-	401,292,546	118,728,793	252,019,656	23,569,381	56,121	100,486	401,292,546	118,728,350		23,569,381

																		Company Name For Year Ended	Au	rora Energy Lin 31 March 202	nited 2
																	Network / Sub	-Network Name	Du	nedin Sub-net	work
SC This	EDULE 8: REPORT ON BILLE chedule requires the billed quantities and asso 8(iii): Line Charge Revenues (\$0	D QUANTITIES AND LI	INE CHARGE REVENU	ES EDB in its pricing schedules. In	formation is also required o	n the numbe	r of ICPs that are inclu	ided in each consume	er group or price category o	ode, and the energy	delivered to these I	DPs.									
32																					
33										Line charge revenu	es (\$000) by price	component					1	1			4
14									Price componen	Fixed (Distribution)	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Transformer Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)	Add extra
15	Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)		Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ pe kWh, etc.	\$/annum	\$ / Lamp	\$ / kWh	\$ / kVA	\$ / kVA x km	\$ / kW	\$/kVA	\$/annum	\$ / kWh	\$ / kVA	\$ / kW	additional line charge revenues by price component as
6	Peridential	Recidential	Standard	634.000	1 1		630.405	66 704	ı	0.00		635.434	1	1		1	1	65 704	1	1	necessary
8	Load Group 0	General	Standard	\$34,889			\$28,105	\$0,784		\$2,674		\$25,431					\$3	\$6,784			-
Ś	Load Group 0A	General	Standard	\$76			\$64	\$12		\$64							\$12				-
,	Load Group 1A	General	Standard	\$163			\$136	\$27		\$7			\$76		\$53				(\$12)	\$39	7
	Load Group 1	General	Standard	\$2,402			\$1,836	\$567		\$48			\$883		\$905				(\$109)	\$676	
2	Load Group 2	General	Standard	\$8,602			\$7,296	\$1,306		\$109			\$4,026		\$3,161	-			(\$1,054)	\$2,360	
3	Load Group 2	General	Non-standard	-			-	-		-											
	Load Group 3	General	Standard	\$1,752			\$1,457	\$295		\$65			\$860	\$46	\$486				(\$239)	\$533	4
	Load Group 3	General	Non-standard	-			-	-		-											
	Load Group 3A	General	Standard	\$2,538			\$1,977	\$561		\$57			\$1,055	\$60	\$809	(\$3)			(\$325)	\$886	
	Load Group 3A	General	Non-standard	-			-	-		-											_
	Load Group 4	General	Standard	\$4,298			\$2,927	\$1,371		\$122			\$1,100	\$119	\$1,178	\$409			(\$135)	\$1,506	_
	Load Group 4	General	Non-standard	-			-	-		-											_
	Load Group 5	General	Standard	\$1,256			\$704	\$552		\$10			\$262	\$52	\$307	\$73			(\$60)	\$611	_
	Load Group 5	General	Non-standard	-			-	-		-		+					-				-
	Street Lighting	General	Standard	\$486			\$441	\$45		\$441							\$45				4
	DUML, excl Street Lighting	General	Standard Nee standard	\$0			50	\$0		\$0		\$0						\$0			-
7	Add outro sourc for additional co	acticiai	worrscanudf0	\$133	l I		\$133		1	\$133	I	1			I		I	1	l		1
<i>•</i>	Aud excid Tows for dabitional co	insumer groups or price category co	Standard consumer totals	\$56.485			\$44.963	\$11 577	1	\$3.615	-	\$25,421	\$8.263	\$277	\$6.999	\$478	\$60	\$6.784	(\$1.934)	\$5.612	a
9			Non-standard consumer totals	\$133	_		\$133	-		\$133	_	-	-	-	-	-	-	-	(\$1,934)		1
0			Total for all consumers	\$56.617	-		\$45.095	\$11.522		\$3,748	-	\$25.431	\$8.263	\$277	\$6.898	\$478	\$60	\$6,784	(\$1.934)	\$6.612	đ
1								+,		+ + + + + + + + + + + + + + + + + + + +			\$0,200		0,000			<i>++,</i>	(1-)		*
52	8(iii): Number of ICPs directly I Number of directly billed ICPs a	billed ^{It year end}	1]			Check	ОК													

S Ti	SCHEDULE 8:	REPORT ON BILLE s the billed quantities and ass	ED QUANTITIES AND LI	INE CHARGE REVENU	ES DB in its pricing schedules. Info	rmation is also required c	n the number of KPs that are included in each consumer group or price category co	ide, and the energy	delivered to these ICF	s.					Network / Sub	Company Name For Year Ended -Network Name	Aur Central Otag	pra Energy Limi 31 March 2022 o and Wanaka S	ted Sub-network
8 9 10 11	8(i): Billed	d Quantities by Price	Component					Billed quantities b	y price component					Transformer					
12							Price component	Fixed (Distribution)	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	(Distribution)	Demand (Distribution)	Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Demand (Transmission)	Add extra
13	Co	onsumer group name or pric category code	e Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	LS	Lamp	kWh	kVA	kVA x km	kW	kVA	LS	kWh	kVA	kW	columns for additional billed quantities by price componen
	Per	cidential	Peridential	Standard	17,630	131.108		6 452 175	1 1	121 108 200					-	121 108 200	1		us necessary
16	102	ad Group 0	General	Standard	108	121,108		30.487		121,108,209					30.497	121,108,209			
17	lo	ad Group 0A	General	Standard	301	844		143 174							33,402				
8	10	ad Group 1A	General	Standard	331	1.046		143,174			945 432		113 200				945 432	113 700	
19	lo	ad Group 1	General	Standard	1 766	12,650		646 498			9 670 980		1 374 288				9 670 980	1 374 288	
0	Los	ad Group 2	General	Standard	2,015	73 153		737 323			37 524 918		4 061 350	(385)			37 574 918	4 061 350	
1	Loa	ad Group 2	General	Non-Standard	0	-		36			-		-				-	-	
2	Loa	ad Group 3	General	Standard	90	17,698		32,906			6,103,343	189,015,193	837,403	(140)			6,103,343	837,403	
4	Loa	ad Group 3	General	Non-Standard	0	-		24			-	-	-	-			-	-	
T	Loa	ad Group 3A	General	Standard	54	21,433		19,607			5,805,122	176,102,521	854,540	(280)			5,805,122	854,540	
	Loa	ad Group 3A	General	Non-Standard	0	-		24			-		-	_			-	-	
1	Loa	ad Group 4	General	Standard	39	33,569		14,251			10,266,000	379,622,042	1,608,346	22,375			10,266,000	1,608,346	
T.	Loa	ad Group 4	General	Non-Standard	-	-		-					-		-				
T.	Loa	ad Group 5	General	Standard	1	8,157		366			912,500	60,133,750	35,956				912,500	35,956	
	Loa	ad Group 5	General	Non-Standard	-	-		-			-	-	-		-				
	Str	reet Lighting	General	Standard	7	919			1,604,846	918,966						918,966			
	DU	JML, excl Street Lighting	General	Standard	-	-													
4	Dis	stributed Generation (Large)	General	Non-standard	-	-		-		3,196						l			
	Ad	ld extra rows for additional c	onsumer groups or price category co	des as necessary				-											
				Standard consumer totals	22,423	290,599		8,204,284	1,604,846	122,027,175	71,228,295	804,873,506	8,885,182	21,570	39,482	122,027,175	71,228,295	8,885,182	
Т				Non-standard consumer totals	0	-		84	-	3,196	-	-	-	-	-	-	-	-	
1				Total for all consumers	22,423	290,599		8,204,368	1,604,846	122,030,371	71,228,295	804,873,506	8,885,182	21,570	39,482	122,027,175	71,228,295	8,885,182	
28 29 30				Total for all consumers	22,423	290,599		8,204,368	1,604,846	122,030,371	71,228,295	804,873,506	8,885,182	21,570	39,482	122,027,175	71,228,295	8,885	,182

																			Company Name	Aur	ora Energy Lim	ited
<form> A constrained by the state and sta</form>																			For Year Endea		51 Watch 2022	
<form></form>																		Network / Sub	b-Network Name	Central Otag	o and Wanaka	Sub-network
	SCI	IEDULE 8: REPORT ON BILLE	D QUANTITIES AND LI	NE CHARGE REVENU	ES																	
def	This :	chedule requires the billed quantities and asso	ciated line charge revenues for each	h price category code used by the E	EDB in its pricing schedules. I	nformation is also required o	on the number	of ICPs that are inclu	ided in each consume	er group or price category c	de, and the energy	lelivered to these ICP	s.									
All set defended by the formation of the formation																						
		8/ii): Line Charge Boyenues (\$6	100) by Brice Component																			
Arr of the state of the st		o(ii). Line charge Revenues (oc	ioo) by Frice component																			
Array of the state of the											Line charge reven	es (\$000) by price or	mpopent									
Nerve Nerve <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>- (,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,</th><th></th><th>1</th><th>1</th><th></th><th>Transformer</th><th></th><th>1</th><th></th><th></th><th>1</th></th<>												- (,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,		1	1		Transformer		1			1
Nerve Nerve <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Drice component</th><th>Fixed</th><th>Fixed</th><th>Energy Delivery</th><th>Capacity</th><th>Capacity -</th><th>Control Period</th><th>Lease, Other</th><th>Fixed</th><th>Energy Delivery</th><th>Capacity</th><th>Control Period</th><th></th></th<>										Drice component	Fixed	Fixed	Energy Delivery	Capacity	Capacity -	Control Period	Lease, Other	Fixed	Energy Delivery	Capacity	Control Period	
mark										Price component	(Distribution)	(Distribution)	(Distribution)	(Distribution)	(Distribution)	(Distribution)	Charges & Rebates	(Transmission)	(Transmission)	(Transmission)	(Transmission)	
And the set of t																1.1	(Distribution)				<u> </u>	Add extra
and many mark many mark mark mark mark									Total transmission												1	additional line
			6	free dead as a second and	*	Notional revenue		Total distribution	line charge	Rate (eg, \$ per day, \$ per	\$ / annum	\$ / Lamp	\$ / kWh	\$ / kVA	\$ / kVA x km	\$ / kW	\$ / kVA	\$ / annum	\$ / kWh	\$ / kVA	\$ / kW	charge revenues
		category code	residential, commercial etc.)	consumer group (specify)	in disclosure year	discounts (if applicable)		revenue	available)	,,											1	by price
									,													necessary
		Residential	Residential	Standard	\$16,909		ĺ	\$17,486	(\$577)	1	\$962		\$16,524						(\$577)		1	1
		Umetered Load	Non-domestic	Standard	-			-	-		-								-]
		Load Group 0	General	Standard	\$23			\$27	(\$3)		\$27							(\$3)		I	
lading AGundariStandariStari		Load Group 0A	General	Standard	\$159			\$184	(\$25)		\$184							(\$25)		I	4
lading 1dired 1Sked 4Sked 4S		Load Group 1A	General	Standard	\$173			\$156	\$17		\$6			\$82		\$68				(\$14)	\$31	-
		Load Group 1	General	Standard	\$1,676			\$1,503	\$173		\$31			\$647		\$826	(\$0)			(\$203)	\$376	-
minit minit <td< td=""><td></td><td>Load Group 2</td><td>General</td><td>Standard</td><td>\$5,498</td><td></td><td></td><td>\$5,412</td><td>\$86</td><td></td><td>\$73</td><td></td><td></td><td>\$3,217</td><td></td><td>\$2,127</td><td>(\$5)</td><td></td><td></td><td>(\$732)</td><td>\$818</td><td>-</td></td<>		Load Group 2	General	Standard	\$5,498			\$5,412	\$86		\$73			\$3,217		\$2,127	(\$5)			(\$732)	\$818	-
initianity in the initinitianity in the initinitianity in the initianity in the initianit		Load Group 2	General	Non-Standard	-			-	-	-	-			-	6246	-	-			-	-	4
initial control		Load Group 3	General	Non-Standard	\$1,293			\$1,301	(38)		562			\$529	\$240	\$400	(\$2)			(\$153)	\$145	1
add Group A Ground Mon-Bandard Add A		Load Group 3A	General	Standard	\$1.241		•	\$1.738	\$3		\$37			\$500	\$229	\$475	(\$3)			(\$145)	\$148	1
lad Group 4 Groun 1 Standard Sta		Load Group 3A	General	Non-Standard	-			-	-	-	-			-	-		-			-	2240	1
shaddrow 1 words words -		Load Group 4	General	Standard	\$2,527			\$2,501	\$26		\$71			\$952	\$494	\$798	\$187			(\$253)	\$279	1
land Group 5 General Standard S154 (S17) land Group 5 General Standard S164 (S17) land Group 5 General Standard S165 S165 land Group 5 General S162 S165 land Group 5 General S167 S167 land Group 5 S165 S165 S165 S165 land Group 5 S165 S165 S165 S165 S165 land Group 5 S165 S165 S165 S165 S165 S165 land Group 5 S165 S165 S165 S165 S165 S165 land Group 6 S167 S165 S165 S165 S165 S165 land Group 6 S165 S165		Load Group 4	General	Non-Standard	-			-	_		-							-				
lad Group 5 General Non-Standard -	I	Load Group 5	General	Standard	\$137			\$154	(\$17)		\$2			\$56	\$78	\$18				(\$23)	\$6	
Inter Lighing General Standard S		Load Group 5	General	Non-Standard	-			-	-	-	-							-		ļ'		4
Closedual Generation Large Stondard Consumer State		Street Lighting	General	Standard	\$108			\$108	\$1	-	-	\$60	\$47						\$1	ļ'		4
Add extor rows for additional consummer basis 528/26 - 530,069 (5324) Non-standard consummer basis 528/26 - 530,069 (5324) Non-standard consummer basis 5473 - 5475 - <td></td> <td>Distributed Generation (Large)</td> <td>General</td> <td>Non-standard</td> <td>\$475</td> <td></td> <td></td> <td>\$475</td> <td>-</td> <td>1</td> <td>\$475</td> <td></td> <td></td> <td>I</td> <td>I</td> <td>l</td> <td>I</td> <td> </td> <td>I</td> <td><u> </u></td> <td>·</td> <td>1</td>		Distributed Generation (Large)	General	Non-standard	\$475			\$475	-	1	\$475			I	I	l	I		I	<u> </u>	·	1
Summer for the service consumer totals 322/34		Add extra rows for additional co	nsumer groups or price category co	aes as necessary	630.745			630.050	(6334)	1	64.453	650	646.574	65 000	61.045	64.777	6477	(638)	(6576)	(64.533)	64.000	1
State for all consumers State for all				Standard consumer totals	\$29,745	-		\$30,069	(\$324)	1	\$1,453	\$60	\$16,571	\$5,983	\$1,046	\$4,777	\$1//	(\$28	(\$5/6)	(\$1,522)	\$1,802	1
8(iii): Number of ICPs directly billed Oheok OK Number of directly billed 1	,			Total for all consumers	\$30,220	-		\$30 544	(\$324)	1	\$1 929	560	\$16 571	\$5.983	\$1.046	\$4 777	\$177	(\$28	(\$576)	(\$1.522)	\$1.802	† .
8(iii): Number of ICPs directly billed Creation or Creation of ICPs at year end 4	1				\$30,220			\$30,344	(5524)		\$1,525	200	\$10,371	\$3,565	\$1,040	34,777	<i>J</i> 177	(520)	(3310)	(\$2,522)	\$1,001	
Number of directly billed ICPs at year end 4		8(iii): Number of ICPs directly	billed					Check	OK	1												
		Number of directly billed ICPs	t year end	4	1			Check		1												
		number of directly billed ices a	.,																			

	SCHEDULE 8	3: REPORT ON BILLE	D QUANTITIES AND LI	NE CHARGE REVENU	ES										Network / Sub	Company Name For Year Ended -Network Name	Aur	ora Energy Limi 31 March 2022 nstown Sub-net	ited twork
sch r 8 9 10 11	This schedule requi	res the billed quantities and ass	cciated line charge revenues for each	n price category code used by the E	EDB in its pricing schedules. Inf	rmation is also required o	the number of KPs that are included in each consumer group or price category co	de, and the energy of Billed quantities b	delivered to these ICP	s.									
12							Price component	Fixed (Distribution)	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Transformer Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)	Add extra
13 14		Consumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)	Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)	LS	Lamp	kWh	KVA	KVA x km	kW	kVA	LS	kWh	kVA	kW	columns for additional billed quantities by price component as necessary
15		Residential	Residential	Standard	11,094	95,483		4,049,389		95,483,470						95,483,470			
16		Load Group 0	General	Standard	111	42		40,488							40,488				
17		Load Group 0A	General	Standard	223	584		81,523											
18		Load Group 1A	General	Standard	181	553		66,228			529,824		68,267				529,824	68,267	
19		Load Group 1	General	Standard	1,053	8,230		384,481			5,767,215		1,131,475				5,767,215	1,131,475	
20		Load Group 2	General	Standard	1,773	59,954		647,123			29,855,096		4,713,696	(126)			29,855,096	4,713,696	
21		Load Group 2	General	Non-Standard	-	-		-			-		-				-	-	
22		Load Group 3	General	Standard	32	9,408		11,809			2,453,861	29,167,172	646,732	-			2,453,861	646,732	
23		Load Group 3	General	Non-Standard	-	-		-			-	-	-	-			-	-	
		Load Group 3A	General	Standard	34	12,036		12,313			3,983,300	49,735,070	932,020	-			3,983,300	932,020	
		Load Group 3A	General	Non-Standard	-	-		-			-	-	-	-			-	-	
		Load Group 4	General	Standard	29	35,765		10,724			7,506,000	68,362,742	2,241,389	20,542			7,506,000	2,241,389	
		Load Group 4	General	Non-Standard	1	3,952		365					-		365				
		Load Group 5	General	Standard	1	3,154		365			912,500	1,095,000	193,450				912,500	193,450	
		Load Group 5	General	Non-Standard	1	5,410		365			-	-	-		365				
		Street Lighting	General	Standard	3	819			1,075,033	818,931						818,931			
		DUML, excl Street Lighting	General	Standard	-	-													
24		Distributed Generation (Large)	General	Non-standard	2	-		-		1,129									
25		Add extra rows for additional co	nsumer groups or price category co	des as necessary	·				,,										
26				Standard consumer totals	14,536	226,029		5,304,443	1,075,033	96,302,401	51,007,796	148,359,984	9,927,029	20,416	40,488	96,302,401	51,007,796	9,927,029	
27				Non-standard consumer totals	4	9,363		730	-	1,129	-	-	-	-	730	-	-	-	
28				Total for all consumers	14,540	235,392		5,305,173	1,075,033	96,303,530	51,007,796	148,359,984	9,927,029	20,416	41,218	96,302,401	51,007,796	9,927,029	
29 30																			

ULE 8: ule requires	REPORT ON BILLED the billed quantities and associ	QUANTITIES AND LI ated line charge revenues for each	NE CHARGE REVENU price category code used by the E	ES IDB in its pricing schedules. Ir	nformation is also required on t	the number	of ICPs that are includ	ded in each consum	er group or price category c	ode, and the energy	delivered to these II	CPs.							quee	
): Line	Charge Revenues (\$00	0) by Price Component																		
										Line charge revenue	es (\$000) by price	component	1 1	1		Transformer				
									Price component	Fixed (Distribution)	Fixed (Distribution)	Energy Delivery (Distribution)	Capacity (Distribution)	Capacity - Distance (Distribution)	Control Period Demand (Distribution)	Lease, Other Charges & Rebates (Distribution)	Fixed (Transmission)	Energy Delivery (Transmission)	Capacity (Transmission)	Control Period Demand (Transmission)
Co	nsumer group name or price category code	Consumer type or types (eg, residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Notional revenue foregone from posted discounts (if applicable)		Total distribution line charge revenue	Total transmission line charge revenue (if available)	Rate (eg, \$ per day, \$ pe kWh, etc.	\$ / annum	\$ / Lamp	\$ / kWh	\$ / kVA	\$ / kVA x km	\$ / kW	\$ / kVA	\$ / annum	\$ / kWh	\$ / kVA	\$ / kW
Rei	idential	Recidential	Standard	\$10.042	1	T	68.262	\$1.780	1	6603		\$7.650	1 1			1		\$1.780		
Loa	d Group 0	General	Standard	\$10,042			\$18	51,780		\$18	-	-	-	-	-	-	58	-	-	-
Loa	d Group 0A	General	Standard	\$105			\$66	\$39		\$66	-	-	-	-	-	-	\$39	-	-	-
Loa	d Group 1A	General	Standard	\$60			\$50	\$10		\$3	-	-	\$29	-	\$18	-	-	-	(\$7)	\$17
Loa	d Group 1	General	Standard	\$818			\$614	\$204		\$16	-	-	\$300	-	\$298	-	-	-	(\$75)	\$279
Loa	d Group 2	General	Standard	\$4,197			\$3,351	\$845		\$42	-	-	\$1,852	-	\$1,459	(\$2)	-	-	(\$421)	\$1,266
Loa	id Group 2	General	Non-Standard	-			-	-		-	-	-	-	-	-	-	-	-	-	-
Loa	id Group 3	General	Standard	\$596			\$519	\$77		\$19	-	-	\$346	\$32	\$123	-	-	-	(\$33)	\$109
Loa	id Group 3	General	Non-Standard	-			-	-		-	-	-	-	-	-	-	-	-	-	-
Loa	id Group 3A	General	Standard	\$873			\$768	\$105		\$19	-	-	\$515	\$55	\$179	-	-	-	(\$53)	\$158
Loa	id Group 3A	General	Non-Standard	-			-	-		-	-	-	-	-	-	-	-	-	-	-
Loa	d Group 4	General	Standard	\$1,667			\$1,291	\$377		\$44	-	-	\$518	\$75	\$480	\$173	-	-	(\$2)	\$379
Loa	id Group 4	General	Non-Standard	\$131			\$77	\$55		\$77	-	-	-	-	-	-	\$55	-	-	-
Loa	d Group 5	General	Standard	\$89			\$58	\$32		\$1	-	-	\$11	\$1	\$24	\$21	-	-	(\$1)	\$33
Loa	d Group 5	General	Non-Standard	\$205			\$90	\$116		\$90	-	-	-	-	-	-	\$116	-	-	-
Str	eet Lighting	General	Standard	\$56	↓ ↓		\$54	\$3	-	-	\$42	\$11	-	-	-	-	-	\$3	-	-
DU	ML, excl Street Lighting	General	Standard	\$21			\$21	-		\$21	-	-	-	-	-	-	-	-	-	-
Dis	tributed Generation (Large)	General	Non-standard	-			-	-	1	-	- 1		-	-	-		-	-	-	-
Ad	d extra rows for additional cons	umer groups or price category coo	les as necessary			1	410.000	44	1					41.00				4	(4	
			Standard consumer totals	\$18,550	-		\$15,071	\$3,479	-	\$851	\$42	\$7,670	\$3,572	\$163	\$2,580	\$192	\$47	\$1,783	(\$592)	\$2,241
			Non-standard consumer totals	\$336	-		\$166	\$1/0		\$166	-	- \$7,670	-	- (162	- (3.580	-	\$1/0	- ¢1 703	(6503)	62.241
			Total for all consumers	\$18,886	-		\$15,238	\$3,649		\$1,018	\$42	\$7,670	\$3,572	\$163	\$2,580	\$192	\$217	\$1,783	(\$592)	\$2,241

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Total Network
SCHEDULE 9a: ASSET REGISTER		

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

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.	28,150	29,480	1,330	4
10	All	Overhead Line	Wood poles	No.	25,757	24,194	(1,563)	4
11	All	Overhead Line	Other pole types	No.			-	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	524	523	(1)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	34	35	1	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	25	25	0	3
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	16	16	0	3
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	11	11	(0)	3
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.	35	35	-	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.	14	14	-	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.			-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	144	145	1	4
29	HV	Zone substation switchgear	33kV RMU	No.	1	1	-	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	9	9	-	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	49	52	3	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	334	332	(2)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	22	22	-	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	67	67	-	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	2,289	2,279	(10)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			-	N/A
37	HV	Distribution Line	SWER conductor	km	9	9	(0)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	715	748	34	3
39	HV	Distribution Cable	Distribution UG PILC	km	421	418	(3)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	1	5	3	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	54	56	2	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	6	6	-	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	6,678	7,164	486	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	553	509	(44)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	834	888	54	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	3,987	3,984	(3)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	3,206	3,259	53	4
48	HV	Distribution Transformer	Voltage regulators	No.	28	28	-	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	354	350	(4)	4
50	LV	LV Line	LV OH Conductor	km	1,040	1,032	(8)	4
51	LV	LV Cable	LV UG Cable	km	1,076	1,112	36	4
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	1,064	1,069	5	4
53	LV	Connections	OH/UG consumer service connections	No.	94,261	95,348	1,087	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	803	779	(24)	4
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	- 1	4
56	All	Capacitor Banks	Capacitors including controls	No	3	3	-	4
57	All	Load Control	Centralised plant	Lot	21	21	-	4
58	All	Load Control	Relays	No	2,286	2,292	6	2
59	All	Civils	Cable Tunnels	km			-	N/A

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	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Dunedin Sub-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.

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.	17,815	18,168	353	4
10	All	Overhead Line	Wood poles	No.	11,568	11,033	(535)	4
11	All	Overhead Line	Other pole types	No.			-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	144	144	0	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	14	14	0	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	25	25	0	3
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	16	16	0	3
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	11	11	(0)	3
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km			-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km			-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km			-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km			-	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km			-	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	21	21	-	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.			-	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.			-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	75	76	1	4
29	HV	Zone substation switchgear	33kV RMU	No.			-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	3	3	-	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	18	19	1	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	246	244	(2)	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.		1	1	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	34	34	-	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	726	722	(4)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			-	N/A
37	HV	Distribution Line	SWER conductor	km	9	9	(0)	4
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	47	52	5	3
39	HV	Distribution Cable	Distribution UG PILC	km	276	275	(1)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	1	5	3	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	15	15	-	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	6	6	-	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2,631	2,849	218	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	338	299	(39)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	383	398	15	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,673	1,675	2	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	987	987	-	4
48	HV	Distribution Transformer	Voltage regulators	No.	2	2	-	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	354	350	(4)	4
50	LV	LV Line	LV OH Conductor	km	817	811	(6)	4
51	LV	LV Cable	LV UG Cable	km	297	305	8	4
52	LV	Lv Street lighting		km	682	683	1	4
53	LV	Connections	UH/UG consumer service connections	NO.	56,846	57,147	301	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	603	581	(22)	4
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	LOT	1	1	-	4
50	All	Capacitor Banks	Capturiors including controls	INO	3	3	_	4
5/	All	Load Control	Centralised plant	LOT	18	18	-	4
50		Civils	Cable Tuppels	INO Ivez	1,128	1,125	(3)	2 N/A
59	All	CIVIIS	cable runnels	КШ			-	19/25

Company Name	Aurora Energy Limited
For Year Ended	31 March 2022
Network / Sub-network Name	Central Otago and Wanaka Sub-network

SCHEDULE 9a: ASSET REGISTER

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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.

8	Voltage	Asset category	Asset class	Units	ltems 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.	8,803	9,593	790	4
10	All	Overhead Line	Wood poles	No.	11,007	10,200	(807)	4
11	All	Overhead Line	Other pole types	No.			-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	301	310	8	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	8	9	0	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km			-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			-	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	0	0	(0)	3
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.	9	9	-	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.	14	14	-	4
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.			-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	50	50	-	4
29	HV	Zone substation switchgear	33kV RMU	No.	1	1	-	4
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.			-	N/A
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	20	21	1	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	48	48	-	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	12	11	(1)	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	19	19	-	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,275	1,271	(3)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			-	N/A
37	HV	Distribution Line	SWER conductor	km			-	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	472	493	21	3
39	HV	Distribution Cable	Distribution UG PILC	km	61	60	(0)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km			-	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	25	27	2	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.			-	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	3,141	3,333	192	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	91	88	(3)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	223	247	24	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	1,855	1,853	(2)	4
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	1,395	1,433	38	4
48	HV	Distribution Transformer	Voltage regulators	No.	18	18	-	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.			-	N/A
50	LV	LV Line	LV OH Conductor	km	177	176	(1)	4
51	LV	LV Cable	LV UG Cable	km	470	490	20	4
52	LV	LV Street lighting	LV UH/UG Streetlight circuit	km	241	244	3	4
53	LV	Connections	OH/UG consumer service connections	No.	22,502	23,042	540	4
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	111	120	9	4
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	-	(1)	4
56	All	Capacitor Banks		NO	-	-	-	N/A
5/	All	Load Control	Centralised plant	Lot	2	2	-	4
58	All	Load Control	Kelays	NO	687	693	6	2
39	All	CIVIIS	Cable Furthers	ĸm			-	IN/ A

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	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Queenstown Sub-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.

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.	1,532	1,719	187	4
10	All	Overhead Line	Wood poles	No.	3,182	2,961	(221)	4
11	All	Overhead Line	Other pole types	No.	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	79	70	(9)	4
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	12	13	0	3
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	5	5	-	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.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	19	19	-	4
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	6	6	-	4
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	11	12	1	4
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	40	40	-	4
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	10	10	-	4
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	14	14	-	4
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	288	285	(3)	4
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
37	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	196	203	7	3
39	HV	Distribution Cable	Distribution UG PILC	km	83	82	(1)	3
40	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	13	13	-	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	906	982	76	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	123	121	(2)	3
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	227	242	15	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	459	456	(3)	4
4/	HV	Distribution Transformer	Ground Mounted Transformer	No.	819	834	15	4
48	HV	Distribution Transformer	voitage regulators	NO.	8	8	-	4
49	HV	Distribution Substations	Ground Mounted Substation Housing	NO.	-	-	-	N/A
50		LV Line		ĸm	46	46	(1)	4
51		LV Cable	LV OU Cable	km	303	311	8	4
52		Connections	OH/UG consumer conjuct connections	km	14 772	140	242	4
55		Protoction	Protection relays (electromechanical, colid state and sumeric)	NO.	14,//3	15,010	243	4
54		SCADA and communications	SCADA and communications equipment operating as a single system	NO.	/8	/8	- (1)	4
56		Canacitor Banks	Capacitors including controls	No	1	-	(1)	4 N/A
57		Load Control	Centralised plant	Lot	1	- 1		11/25
58		Load Control	Relays	No	1	1	2	+ 2
59	All	Civils	Cable Tunnels	km	400	409		N/A
55		0.000		KIII				

																							Comp	any Name	2					Aurora Er	ergy Limit	ed			
																							For Y	ear Endea	I I					31 Ma	arch 2022				
																						Network /	Sub-netw	ork Name	2					Total	Network				
SCHI	DUILE 96- ASSET AGE PRO	EU E																																	
This set	dula requires a summary of the are profil	FILL a (based on year of installation) of the assets that make up the network by	warret cateor	on and arre	t clare All	unity relation t	o cable and	ine wrete t	hat are ever	nered in kr	n refer to circuit l	wathe																							
THIS SU	une requires a summary of the age prom	e (based on year of instanation) of the assets that make up the network, by	iy asset catego	ny anu asse	L CIUSS. All	units relating t	o cable and	ine assets, i	пасате екр	iesseu ili ki	in, relef to circuit i	niguns.																							
ch ref																																			
8	Disclosure Year (year ended)	31 March 2022								Numbe	r of assets at disc	osure year er	nd by instal	llation date																					
				19.4	0 19	1960	1970	1990	1990																								No. with	Items at No. wit	ch dt Data accura
9 Vo	age Asset category	Asset class U	Units pre-1	1940 -194	19 -1	959 -1969	-1979	-1989	-1999	2000	2001 20	2 2003	2004	2005	2006	2007	2008	2009	2010	2011 201	2013	3 2014	2015	2016	2017	2018	2019	2020	2021	2022 202	3 2024	2025	unknown	year dates	s (1-4)
10 All	Overhead Line	Concrete poles / steel structure	No.		18 1	,514 6,103	4,419	2,984	1,662	100	73	121 15	2 13	87 65	108	169	174	160	113	132 3	347 54	41 44	3 727	633	962	2,249	1,487	1,062	1,266	1,561				29,480	4
11 All	Overhead Line	Wood poles	No.	652 7	14 1	,392 5,730	4,143	3,183	2,836	296	224	225 40	5 29	304	235	293	293	271	350	345 2	242 14	40 8:	9 102	95	135	633	191	129	126	128				24,194	4
12 All	Overhead Line	Other pole types	No.																															-	N/A
13 HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	58	3	62 119	74	38	125	0				0		6		1	6	11		0) 3	2		1	1	0		11				523	4
14 HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km																															-	N/A
15 HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km					1	7					0 1	1	0	1	2	1	0	0	1	1	1	. 0	3	10		0	1				35	3
16 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km				22	3																										25	3
17 HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			10	i						_	_										-								-	_	16	3
18 HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km			8	0	0	1	0		0	0	0 1		0	0				0	_		-									-	11	3
19 HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km					+	-			-										-		+	+ +						-			-	N/A
20 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km				-	+			<u> </u>	-		_								-	-	+							-	-		-	N/A
21 HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		-								-	-								-										-		-	N/A
22 HV	Subtransmission Cable	Subtransmission us 110kv+ (MEC)	km				+	-	-	-													+	-							-	-		-	N/A
23 HV 24 HV	Zone substation Buildings	Zone substations up to 66M	No		1	4 3		7	4	-									1	1		-	1	1	1	1	1				-	-		25	N/A
24 110	Zone substation Buildings	Zone substations 110k)/+	No.						~																	1								35	
26 HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.																															-	N/A
27 HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No											3						1			2	1			7							14	4
28 HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No																	-														-	N/A
29 HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.			39 14	4	23	17	1				1	2			15		2		1	3	1			2		2					145	4
30 HV	Zone substation switchgear	33kV RMU	No.																										1					1	4
31 HV	Zone substation switchgear	22/33kV CB (Indoor)	No.						6																		3							9	4
32 HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.				5	7	10			1	1	2		3	4	1	2		3	2	3		1	1			2	4				52	4
33 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.			46 34	62	24	26			1	1 1	17	10		8		19	20	12	2 1) 6	5			16		2					332	4
34 HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.				3		2				4	2	4					1	1				1		1		1	2				22	4
35 HV	Zone Substation Transformer	Zone Substation Transformers	No.			4 1:	12	6	6	1		1	3	1 1			1		2	4	1	2	1 1	2			2	1	3	1				67	4
36 HV	Distribution Line	Distribution OH Open Wire Conductor	km	57	98	255 401	395	363	339	12	12	14	7 1	1 30	8	12	7	9	13	13	6	8	5 16	23	10	13	11	27	29	70				2,279	4
37 HV	Distribution Line	Distribution OH Aerial Cable Conductor	km																															-	N/A
38 HV	Distribution Line	SWER conductor	km			6	. 0	1	0														0											9	4
39 HV	Distribution Cable	Distribution UG XLPE or PVC	km			() 6	10	63	12	24	25 2	9 5	3 32	39	51	34	21	15	14	10 :	10 2	9 40	40	27	29	34	29	38	35				748	3
40 HV	Distribution Cable	Distribution UG PILC	km	0	8	34 41	69	74	66	6	6	9 1	3	6 9	11	15	5	8	9	7	5	3	1 1	. 1	0	0	0		0	0		-	_	418	3
41 HV	Distribution Cable	Distribution Submarine Cable	km	_	1							_		_								_		+						3	-	-		5	4
42 HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.			_	1 .		2	1				2 3	1	4	7	7	1	1		2		8	1	3		1	8	4				56	4
43 HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	_		3	2						-	_						1			-	-							_	-	-	6	4
44 HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	2	19	102 543	529	663	1,101	138	123	136 15	3 17	136	149	135	142	145	151	156 1	106 13	24 12	173	157	133	235	293	304	367	453	-	-		7,164	4
45 HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.			6	51	60	68	7	3	19 2	1 1	16 25	18	32	19	27	23	11	13 1	15	3 2	1	1	2	2	2				+		509	- 3
40 HV	Distribution Switchgear	3.3/6.6/11/22KV RMU	No.	-		20 24	36	59	122	12	18	1/ 4	u 1	10 25	24	18	22	24	17	21	24	13 1	18	34	39	31 er	56	60	65	64	-		-	3084	3
47 HV	Distribution Transformer	Fore wounted transformer	NO.		4	2.9 211	380	505	911	109	89	08 11	0 10	78	15	58	12	14	50	53	20 0	04 0. CE 0	82	62	40	85	89	111	143	141		+		3,984	4
40 HV	Distribution Transformer	Voltana ragulatore	No.			1 3	162	180	445	60	3/	20 11	0 15	1/2	168	143	119	12/	55	04	01 0	2	102	105	99	97	112	104	2	22	-	-		3,235	4
50 10	Distribution Substations	Ground Mounted Substation Housing	NO.	-			107	00	122	۰	2	4	1	2	1	э	1		3	1	-	-	4	1				1	3	4	-	1	-	350	4
57 17	IV line	IV OH Conductor	km	51	41	105 23	215	160	173	ŝ	4	3	4	5 3	3	3	2	2	3	2	1	2	2 2	1	1	1	1	2	2	1	1	1		1 032	4
\$2 IV	LV Cable	IV IIG Cable	km	0	0	1 2	1 42	160	157	10	21	25 4	1 4	18 61	49	46	40	26	22	14	20 3	15 20	1 22	20	21	32	41	41	30	32		1		1 112	4
53 IV	LV Street lighting	LV OH/UG Streetlight circuit	km	13	11	32 140	152	242	288	7	7	8	9 1	10 10	9	10	11	9	9	7	10	7	7 4	12	8	12	9	8	4	4				1.069	4
54 LV	Connections	OH/UG consumer service connections	No. 12.	329 3.5	15 6	,839 8.64	7,080	4,488	21,819	1,012	956 1.	208 1.37	8 1.56	58 1,569	1,748	1,533	1,664	1,231	1,102	1,017 8	888 1.02	26 1,11	1,216	1,252	1,661	1,505	1,533	1,417	1,571	1,352		1	113	95,348	4
55 All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	30		147 93	120	30	48			9 3	8	3 15		10		13	36	14	2	1 3) 11	. 8		49	1	13	58					779	4
56 All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot																								1							1	4
57 All	Capacitor Banks	Capacitors including controls	No																		3													3	4
58 All	Load Control	Centralised plant	Lot			3	5 5		1									1	1	3			1											21	4
59 All	Load Control	Relays	No		1	2 3	80	105	253	24	45	43 5	8 10	133	121	112	85	62	30	27	28 :	16 2	2 9	519	239	27	26	38	29	17				2,292	2
60 All	Civils	Cable Tunnels	km					1	1																1							1		-	N/A

																								Company	Name					Auro	ora Energy Limited			
																								For Year	Ended					3	81 March 2022			
																						N	etwork / S	ub-network	Name					Dun	edin Sub-network			
	SCHEDU	LE 9b: ASSET AGE PROF	LE																															· · · · ·
	This schedule	requires a summary of the age profile	based on year of installation) of the assets that make up the network. b	by asset ca	tepory and asset cl	ass. All unit	s relating to	cable and li	ine assets, that are ex	ressed in k	m, refer to	circuit length	s.																					
sch	ef																																	
8		Disclosure Year (year ended)	31 March 2022							Numb	er of assets	at disclosur	e year end b	y installati	on date																	No with	Itemrat No wi	inh.
					1940	1950	1960	1970	1980 1990																							age	end of defaul	alt Data accuracy
9	Voltage	Asset category	Asset class	Units p	ore-1940 -1949	-1959	-1969	-1979	-1989 -1999	2000	2001	2002	2003	2004	2005	2006	2007	2008 2	2009	2010 2011	2012	2013	2014	2015	2016 2	017 20	18 20	19 2020	0 2021	2022	2023 2024 2025	unknown	year dates	s (1-4)
10	All	Overhead Line	Concrete poles / steel structure	No.	3	1,430	5,734	2,766	2,002 758	23	12	41	52	23	17	24	29	19	18	25 2	27 79	155	168	310	292	524 1	,046	881 6	04 550	556			18,168	4
11	All	Overhead Line	Wood poles	No.	652 692	1,297	2,369	965	1,155 1,510	171	154	119	113	87	114	102	110	144	129	89 8	32 100	61	35	20	19	37	487	103	58 40	19			11,033	4
12	All	Overhead Line	Other pole types	No.					-		-										_	-										-	-	N/A
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	49	51	28	3	2																					11			144	4
14	HV	Subtransmission Line	Subtransmission UH 110kV+ conductor	km																	0 0		2		0	0	2						14	N/A
16	HV NV	Subtransmission Cable	Subtransmission UG up to 66kV (ALPE)	km				22	2												0 0		2		0	0	3	0					25	2
17	HV	Subtransmission Cable	Subtransmission LIG up to 66kV (Gas pressurised)	km			16																										16	3
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		8		0	0 1	0		0	0	0	1		0	0			0												11	3
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km																													-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km								1																					-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km																													-	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km																													-	N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km																													-	N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	1	. 4	3	6	4 1																		1	1					21	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.																													-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.		-	_			_	_	_										_											-	N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.																	-												-	4
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.					_		-											-										-	-	N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.		25	18	4	5												2		18					2	2				76	4
30	HV	Zone substation switchgear	33KV KMU 23/23b) (20 //adam)	NO.																								2					-	
22	HV HV	Zone substation switchgear	22/33kV CB (hiddor)	No.				4					1				2	4			2	2						3		2			19	
33	HV	Zone substation switchgear	3 3/6 6/11/22kV CB (ground mounted)	No.		46	36	62	17 13					17		9	-			11 1	17							16		-			244	4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																								-		1			1	4
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.		3	9	10	2 2									1			2	2						2		1			34	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1 22	83	243	127	70 66	S	4	8	3	4	5	5	2	5	5	5	1 1	0	2	2	0	0	0	0	14 9	28			722	4
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km																													-	N/A
38	HV	Distribution Line	SWER conductor	km		6	2	0	1 0															0									9	4
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km			0	0	0 4	1	1	2	2	2	2	3	3	1	1	0	2 1	. 1	1	1	2	4	2	2	4 3	5			52	3
40	HV	Distribution Cable	Distribution UG PILC	km	0 8	34	48	69	48 30	2	1	1	1	1	2	3	1	1	3	3	6 3	3	3	1	1	0	0	0	0	0			275	3
41	HV	Distribution Cable	Distribution Submarine Cable	km	1		_			_	_	_										_								3			5	4
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionaliser:	No.		1 -	1	-				-					3		3		1	1			4		1		1 1	1			15	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		3	-	2		1	1	-									1	-						-					6	4
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1 16	71	454	370	347 439	15	15	19	28	37	32	54	34	25	24	20 2	c 18	25	34	37	44	43	60	14 10	40 137	215			2,849	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	NO.			58	51	50 51	10	2	9	4	5		3	2	4	9	7 1	0 0	10	2	0		16	1	12	15 25	20			299	
40	HV HV	Distribution Transformer	S.S/0.0/11/22kV NNO Role Mounted Transformer	No.		4	149	207	249 427	42	29	27	20	28	20	24	25	20	16	16 1	12 10	21	16	20	14	10	26	22	20 42	62			1 675	
48	HV	Distribution Transformer	Ground Mounted Transformer	No.		1	38	146	130 211	16	10	16	21	15	20	36	18	12	21	14 3	21 20	16	20	19	23	27	27	15	33 29	12			987	4
49	HV	Distribution Transformer	Voltage regulators	No.				1																					1				2	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.			2	107	95 123	8	2	4	1		2	1		1			1		1	1					1				350	4
51	LV	LV Line	LV OH Conductor	km	48 25	66	170	170	141 149	4	3	2	3	4	3	2	2	1	1	2	2 0	2	1	1	1	1	0	1	1 1	1			811	4
52	LV	LV Cable	LV UG Cable	km	0 0	1	22	42	34 39	4	3	4	5	8	9	13	11	7	8	8	4 8	7	8	7	6	8	8	7	8 8	8			305	4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	13 6	18	115	136	106 219	3	3	2	4	3	4	2	3	3	4	6	4 6	4	3	2	5	4	2	1	1 1	1			683	4
54	LV	Connections	OH/UG consumer service connections	No.	12,329 3,515	6,839	8,643	7,072	4,483 4,844	311	283	249	361	487	433	528	506	538	363	433 37	76 379	365	378	414	364	444	426	454 43	27 468	432		3	57,147	4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	27	147	92	114	3 19	1	1	1	19	3	12				2	28	1	-	20	4	2		28	1 :	13 46				581	4
56	All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot		-	1			1		-										-						1					1	4
57	All	Capacitor Banks	Capacitors including controls	No		-		<u> </u>	├ ── ├ ──		1		<u> </u>								3	-											3	4
58	All	Load Control	Centralised plant	Lot		3	6	5	1	+		+						_	_	_	3	+						_					18	4
59	All	Load Control	Relays	No	1	2	35	62	56 93	6	2	4	4	4	2	3	5	6	7	5	5 14	4	4	4	509	230	13	5	14 20	6			1,125	2
60	All	CIMIS	Cable runnels	km			J	1	I I	J		1	L								1	1			1	1	1		1	1 1		1	-	N/A

																						Co	npany Na	me					Aurora Energ	gy Limited			
																						Fc	r Year En	Jed					31 March	1 2022			
																					Netwo	rk / Sub-ne	twork Na	me				Centr	al Otago and W	anaka Sub-netw	/ork		
HE	OULE 9b: ASSET AGE PRO	FILE																															
schei	dule requires a summary of the age profile	e (based on year of installation) of the assets that make up the network	, by asset categ	gory and asset cl	lass. All units	relating to cable	and line assets,	that are expresse	d in km, refer t	o circuit leng	ths.																						
	Disclosure Year (year ended)	31 March 2022						N	umber of asse	ts at disclos	ure year end	d by installat	ion date																				
																															No. with Ite	ams at No. w	vith
Volta	ee Asset category	Asset class	Units pre-	1940	1950	1960 19	370 1980 1979 -1989	1990	000 2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 20	14 20	5 20	6 20	17 2018	2019	2020	2021	2022 2023	2024 2025	age er	nd of defau year date	alt Data
All	Overhead Line	Concrete poles / steel structure	No.	15	5 84	333 1	1,434 743	3 706	64 4	7 70	82 ز	99	38	71	124	126	129	84	75	216	376	250	374	320	390 1,000	6 508	3 407	641	781			9,593	<u> </u>
All	Overhead Line	Wood poles	No.	17	/ 94	2,860 2	2,438 1,398	\$ 890	90 2	7 8	\$ 266	163	155	103	153	102	99	215	221	106	50	51	71	69	81 111	8 59	1 54	65	80			10,200	_
All	Overhead Line	Other pole types	No.																													-	
HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	9		67	59 34	104	0				$ \downarrow \downarrow$	└	4			6	11			0	2	2		1 1	. 0		0			310	
HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			<u> </u>							—	+										_			+		<u> </u>				_
HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km			—	1	. 1		_		0	0	1	0			1				0		1		3	<u>. </u>	0	0	<u> </u>		9	
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km		+	\vdash		+	-		+	+	++	<u> </u>												+	++			<u> </u>	+		-
HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			H		-					+	⊢													+			<u> </u>		-	-
HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPF)	km		+						+	+	<u> </u>	-+													++				+	-	-
ну	Subtransmission Cable	Subtransmission LIG 110kV+ (Oil pressurised)	km	-								1			1											-					-	-	-
HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km											(-		-		-				-	_
HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km																													-	
ΗV	Subtransmission Cable	Subtransmission submarine cable	km											1																		-	
HV	Zone substation Buildings	Zone substations up to 66kV	No.				1 2	: 1											1			1	1	1	1	_						9	_
ΗV	Zone substation Buildings	Zone substations 110kV+	No.			$ \longrightarrow $							$ \rightarrow $	⊢													+		·			-	
HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.			—		+		_			+	+													+			<u> </u>			
ŧ٧	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.			⊢ – ⊢		+		-		3	\vdash	⊢					1				2	1		7				<u> </u>	+	14	
HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.			H			-			+	+	<u> </u>										_			+			<u> </u>		-	-
HV	Zone substation switchgear	33kV Switch (Pole Mounted)	NO.		14	\vdash	19	- 12					<u>+</u>	<u> </u>													++				+	50	-
MV NV	Zone substation switchgear	22/22// CR (Indeer)	No.		-			1	-		-															-	-						-
ну	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-			2	4			1	1	1		1		1					3			1	-		2	1		-	21	-
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.				7	1			11			1		8			3		2	3	6	5		-	-	2				48	_
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.				1	1			4	. 2		1										-	1			1	1			11	_
нv	Zone Substation Transformer	Zone Substation Transformers	No.		1	1	1 2	1 1			4 3	. 1							1			1	1	2				3				19	_
ΗV	Distribution Line	Distribution OH Open Wire Conductor	km	45 74	1 163	120	253 201	190	5	6	i 2	7	24	1	6	1	3	6	11	2	7	5	12	22	4 11	1 10	J 13	19	42			1,271	
HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			<u> </u>				_			—	+										_			+		<u> </u>				
HV	Distribution Line	SWER conductor	km			⊢ – ⊢		+		-			\vdash	⊢									-	_	_					<u> </u>	+		
HV	Distribution Cable	Distribution UG XLPE or PVC	km			0	5 8	32	7 1	4 1	20	33	17	22	35	17	15	10	8	7	9	28	34	32	16 22	: 22	. 18	27	22	<u> </u>	+	493	
HV	Distribution Cable	Distribution UG PILC Distribution Coherencies Coheren	km	0	+	├──┼ ─	0 13	. 15	2	3 4	- 3	4	5	2	6	1	0	2	1	1	0	0					++			<u>├──</u>	+	60	_
HV	Distribution cable	3 3/6 6/11/22kV CR (note mounted) - recipcers and rectionalizers	No	+	+		_	2	1	-	+	2	1	<u> </u>	1	7	2	1			1			3	1	<u>, </u>	+	1	2		+	27	-
нν	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.		1						+	+		r t	-	- í	-	-			-			-	-	4	+ +			1 1	+ -		
ну	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	1 3	3 29	79	139 247	/ 446	82 /	6 74	4 94	101	73	69	72	95	86	97	109	63	84	84	122	96	75 14	8 183	\$ 134	188	194			3,333	
нν	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.		T			7	1	1	3 5	2	11	1	14	2	11	10	2	7	3		1	1	1	1						88	-
HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.				1	15	1	4 4	1 11	. 1	9	4	6	6	3	6	7	8	3	6	5	12	8 17	/ 26	30	26	24			247	
HV	Distribution Transformer	Pole Mounted Transformer	No.	4	1 23	60	147 208	: 342	46 0	4 5	56	57	37	34	36	43	40	25	34	35	49	43	45	40	18 57) 57	63	96	66			1,853	
HV	Distribution Transformer	Ground Mounted Transformer	No.		4	\vdash	9 33	. 121	18 4	9 4	/ 56	76	92	72	82	60	69	28	30	28	38	56	76	58	51 57	/ 63	. 52	56	57	↓	+	1,433	
łV	Distribution Transformer	Voltage regulators	No.		+	⊢ −		+		-	+	+'	└──	⊢			2	5			3		4	+		+	++	2	2	├──	+	18	_
4V	Distribution Substations	Ground Mounted Substation Housing	No.			E1	22 **		_			+	<u> </u>		1								0	_	0	<u> </u>	+ +			<u> </u>	+	176	
v	LV Cable	IV IIG Cable	km	3 14		1	1 7	64	-	• •	1 10		20	21	17	22	15	11	6		5	0	11	16	17 1			16	19	<u> </u>	+	490	-
v	LV Street lighting	IV OH/IIG Streetlight circuit	km	1 6	5 10	20	11 90	i 34	2	2 1	18	2	43	21 0	3	7	15	2	2	3	3	3	2	3	3	4 A	6	25	2	<u> </u>	+	244	-
LV	Connections	OH/UG consumer service connections	No.		1	3	5 /	4 10.714	342 3.	2 49	571	607	589	590	582	699	543	367	343	279	347	417	506	\$11	758 69'	9 673	5 650	652	611	1 1	68	23.042	
All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	2	1	1	6 16	3		4	4 19				10			8			1	5	7	6	2/	0	1	12				120	
All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot																					- L.									_
All	Capacitor Banks	Capacitors including controls	No														-			-								_					
All	Load Control	Centralised plant	Lot			<u> </u>	_			_		4'	$ \longrightarrow $	↓ →			1						1	_	_		+		<u> </u>		_ 	2	
All	Load Control	Relays	No		4	4	12 31	. 89	7 2	2 2	i 29	57	78	66	68	42	38	16	10	8	9	13	5	6	7 7	/ 14	21	3	8	↓		693	_
All	Civils	Cable Tunnels	km	1	1		1	1			1		1 1	1 1															. I	1			

38
																						Comp	any Name					Auro	ora Energy Limited			
																						For Y	ear Ended						81 March 2022			
																				N	letwork /	Sub-netw	ork Name					Queer	stown Sub-network			
	SCHEDL	LE 9b: ASSET AGE PROF	ILE																					-								
	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 i	units relatin	g to cable and	line assets, that are ex	pressed in k	m, refer to	circuit lengths.																					
				.,,																												
sch	ref																															
8		Disclosure Year (year ended)	31 March 2022						Numbe	er of assets	at disclosure	rear end by in	nstallation	date																No with	Items at No.	with
					1940 19	50 19	0 1970	1980 1990																						age	end of defa	sult Data accuracy
9	Voltage	Asset category	Asset class	Units pre-194	40 -1949 -19	59 -19	69 -1979	-1989 -1999	2000	2001	2002	2003 2	2004 2	2005	2006 200	2008	2009	2010	2011 2012	2013	2014	2015	2016	2017	2018	2019 2	2020 2021	2022	2023 2024 2025	unknown	year dat	es (1-4)
10	All	Overhead Line	Concrete poles / steel structure	No.			34 219	239 198	13	14	10	18	15	10	13	16 2	9 1	13 4	30 52	10	2	5 43	21	48	197	98	51 75	224			1,719	4
11	All	Overhead Line	Wood poles	No.	5	1	501 740	630 436	35	23	21	26	43	35	30	30 4	7 4	13 46	42 36	29	1 1	3 11	7	17	28	29	17 21	. 29			2,961	4
12	All	Overhead Line	Other pole types	No.		-			-	-						-	_			-	-									-		N/A
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	3	2	24 12	4 19						0		2		1		0		1						0			70	4
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km											0	0		2 0													- 12	2
16	NV NV	Subtransmission Cable	Subtransmission US up to 66kV (ALPE)	km											0	•		2 0										0			13	
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km																												N/A
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km																											-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km																											-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km																											-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km																											-	N/A
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km																												N/A
23	HV	Subtransmission Cable	Subtransmission submarine cable	km																												N/A
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.			1	1 2										1													5	4
25	HV	Zone substation Buildings	Zone substations 110kV+	No.																												N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.					_	_						_	_	_		_	-	_	_									N/A
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	_															-												N/A
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.					-	-						-	-			-	-	-						-		-		N/A
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.				4										5													19	4
30	HV	Zone substation switchgear	33KV RMU	ND.																											-	- N/A
22	NV NV	Zone substation switchgear	22/33kV CB (Induot)	NO.			1	6						1				2							1			1			12	4
33	HV	Zone substation switchgear	3 3/6 6/11/22kV CB (ground mounted)	No				13										8	12			,									40	4
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.			2	1							4			-	1 1							1					10	4
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.			1 1	2 3	1					1				2	1 1								1				14	4
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km 1	1 2	8	45 14	92 83	2	2	1	1	0	0	3	4	2	1 3	1 3	0	1	1	0	5	1	0	0 1	. 0			285	4
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km																												N/A
38	HV	Distribution Line	SWER conductor	km																												N/A
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km				2 27	4	9	10	7	18	12	12	14 1	5	5 4	4 2	1		1 5	6	8	5	11	6 7	9			203	3
40	HV	Distribution Cable	Distribution UG PILC	km			0	13 21	3	2	5	10	1	2	5	8	3	5 4	0 0	0)	0	0							82	3
41	HV	Distribution Cable	Distribution Submarine Cable	km					_	_						_	_	_		_	-	_	_									N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.				+ +		1	<u> </u>			2				2		1			1				6	1			13	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	+ +							~		~			-				1		-								-	N/A
44	HV	Distribution switchgear	3.3/6.6/11/22/RV Switches and fuses (pole mounted)	No.		2	9 20	69 216	41	42	43	31	38	31	26	29 2	2 3	34	26 25	15	1	5 14	17	15	27	36	30 42	44			982	4
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	ND.				2 24	1	3	2	12	9	14	13	10 1	3	7 12	3 1	2			14	16	10	10	15 14	12			242	
40	NV NV	Distribution Transformer	S.5/0.0/11/228V RMU Role Mounted Transformer	No.		2	9 26	49 122	21	17	20	12	16	11	5	2 1	0 1	12 15	6 4	11			- 14	20	10	10	20 0	12			456	
4.9	HV	Distribution Transformer	Ground Mounted Transformer	No.		-	7 7	17 113	26	38	36	41	60	60	55	13 4	7 3	17 13	33 13	11	1) 7	24	21	13	34	19 26	30			834	4
49	HV	Distribution Transformer	Voltage regulators	No.											3	3		2													8	4
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.																											-	N/A
51	LV	LV Line	LV OH Conductor	km	1	8	13 14	2 6	0	0	1	0	0	0	0		0	0	0 0	0	1) 0	0		0		0				46	4
52	LV	LV Cable	LV UG Cable	km			0 1	54 53	10	10	8	18	18	13	10	18 1	1 1	3 3	5 5	3		3 5	6	6	7	7	11 7	6			311	4
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km		4	5 5	51 34	2	2	1	2	5	2	1	4	1	0 1	1 1	. 1)	4	1	4	4	1 1	. 1			140	4
54	LV	Connections	OH/UG consumer service connections	No.			1 3	1 6,261	359	351	469	446	474	547	621 4	33 41	1 31	294	285 220	306	31	292	274	449	372	399	331 447	306		42	15,016	4
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	1			11 26			5			3			1	11	13 2		1	5			1						78	4
56	All	SCADA and communications	SCADA and communications equipment operating as a single sys	Lot				1	1							_	_				-	-										N/A
57	All	Capacitor Banks	Capacitors including controls	No																			1					-				N/A
58	All	Load Control	Centralised plant	Lot		_	_		l	1						_	_	1		+	1	-	<u> </u>				_				1	4
59	All	Load Control	Relays	No	+ +		6	18 71	11	21	16	25	41	53	47	sa 3	/ 1	./ 9	12 6	3	4		4	2	7	7	3 6	3		1	469	2
60	All	CMIS	Cable Tunnels	8m				I	1											1	1		1					1	- I I	-I I		N/A

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		-		
	Company Name	Aur	ora Energy Limi	ted
	For Year Ended		31 March 2022	
	Network / Sub-network Name		Total Network	
c				
. Э тн	chebole services a summary of the key characteristics of the everhead line and underground cable network. All units rel	ating to cable and li	no accets that are ov	proceed in km refer
to	circuit lengths.		ne assets, that are ex	presseu in kin, reier
sch r	ef			
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	127	3	129
13	33kV	396	85	482
14	SWER (all SWER voltages)	9	-	9
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	2,279	1,171	3,450
17	Low voltage (< 1kV)	1,032	1,112	2,143
18	Total circuit length (for supply)	3,843	2,371	6,213
19		522	527	1.000
20	Dedicated street lighting circuit length (km)	532	537	1,069
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L	57
~~		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	1,163	30%	
25	Rural	2,593	67%	
26	Remote only	-	-	
27	Rugged only	87	2%	
28	Remote and rugged	_	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	3,843	100%	
31				
22		Circuit length	(% of total circuit	
32 22	Longth of circuit within 10km of coastling or goothormal areas (whore known)	(KM)	lengtn)	
33		1,471	24%	
24		Circuit length	(% of total	
34	Querhead sizuit cognizing vegetation management	(KM)	overnead length)	
35	Overneau circuit requiring vegetation management	3,843	100%	

	Company Name	Aur	ora Energy Limi	ted
	For Year Ended		31 March 2022	
	Network / Sub-network Name	Dui	nedin Sub-netwo	ork
c				
. Э тн	chebole services a summary of the key characteristics of the everhead line and underground cable network. All units rel	ating to cable and li	no accets that are ov	proceed in km refer
to	circuit lengths.	ating to caple and in	ne assets, that are ex	presseu in kin, reier
sch r	ef			
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	-	-	-
13	33kV	144	66	210
14	SWER (all SWER voltages)	9	-	9
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	722	331	1,053
17	Low voltage (< 1kV)	811	302	1,113
18	Total circuit length (for supply)	1,686	700	2,385
19		460	222	602
20	Dedicated street lighting circuit length (km)	460	223	683
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L	3
~~		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	968	57%	
25	Rural	709	42%	
26	Remote only	-	-	
27	Rugged only	9	1%	
28	Remote and rugged	_	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	1,686	100%	
31				
22		Circuit length	(% of total circuit	
32 22	Longth of circuit within 10km of coastling or goothormal areas (whore known)	(KM)	lengtn)	
33		1,471	02%	
24		Circuit length	(% of total	
34	Querband circuit requiring upgetation management	(KM)	overnead length)	
35	Overnead circuit requiring vegetation management	1,686	100%	

	Company Name	Au	ora Energy Limi	ted
	For Year Ended		31 March 2022	
	Network / Sub-network Name	Central Otag	o and Wanaka S	ub-network
S	CHEDULE 9C' REPORT ON OVERHEAD LINES AND LINDERGROUND CABLES			I
Th	is schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rel	ating to cable and li	ne assets, that are ex	pressed in km. refer
to	circuit lengths.			
sch r	ef			
9				
10	Circuit I wash ha anarating a law and a law and i	Oversteers of (loss)	the demonstrated (low)	Total circuit
10	Circuit length by operating voltage (at year end)	Overnead (km)	Underground (km)	length (km)
11	> DDKV	- 127	-	- 120
12	33k/	127	3	129
13	SURE (all SWEP voltages)	105		105
14	22k/ (other than SWER)			
16	6 6kV to 11kV (inclusive—other than SWER)	1 271	553	1 825
17	Low voltage (< 1kV)	1,271	490	665
18	Total circuit length (for supply)	1.757	1.052	2.809
19		_,	_,	_,
20	Dedicated street lighting circuit length (km)	57	187	244
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			32
22			-	
22		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	128	7%	
25	Rurai	1,573	90%	
20	Remote only	- 55	- 3%	
27	Remote and rugged		378	
20 29	Unallocated overhead lines			
30	Total overhead length	1.757	100%	
31		, -		
		Circuit length	(% of total circuit	
32		(km)	length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)		-	
		Circuit length	(% of total	
34		(km)	overhead length)	
35	Overhead circuit requiring vegetation management	1,757	100%	

	Company Name	Aur	ora Energy Limi	ted
	For Year Ended		31 March 2022	
	Network / Sub-network Name	Quee	nstown Sub-net	work
c				I
. Э тн	chebole services a summary of the key characteristics of the everhead line and underground cable network. All units rel	ating to cable and li	no accets that are ov	proceed in km refer
to	circuit lengths.	ating to caple and in	ne assets, that are ex	pressed in kin, reier
sch r	ef			
9				
				Total circuit
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	length (km)
11	> 66kV	-	-	-
12	50kV & 66kV	-	-	-
13	33kV	70	13	82
14	SWER (all SWER voltages)	-	-	-
15	22kV (other than SWER)	-	-	-
16	6.6kV to 11kV (inclusive—other than SWER)	285	285	570
17	Low voltage (< 1kV)	46	311	356
18	Total circuit length (for supply)	400	609	1,009
19		10	125	140
20	Dedicated street lighting circuit length (km)	16	125	140
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)		L	22
~~		Circuit length	(% of total	
23	Overhead circuit length by terrain (at year end)	(km)	overhead length)	
24	Urban	67	17%	
25	Rural	311	78%	
26	Remote only	-	-	
27	Rugged only	23	6%	
28	Remote and rugged	-	-	
29	Unallocated overhead lines	-	-	
30	Total overhead length	400	100%	
31				
22		Circuit length	(% of total circuit	
32	Length of circuit within 10km of coastling or geothermal areas (where known)	(KM)	length)	
55	Length of cheate within tokin of coastine of geothermal areas (where known)			
24		Circuit length	(% of total	
34	Querhead sizuit cognizing vegetation management	(KM)	overnead length)	
35	Overneau circuit requiring vegetation management	400	100%	

	Company Name	Aurora Ene	ergy Limited
	For Year Ended	a 31 Mai	ch 2022
SCHED	ULE 9d: REPORT ON EMBEDDED NETWORKS		
his schedu	le requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in anothe	r embedded network.	
3	Location *	Number of ICPs served	Line charge revenue (\$000)
9	Heritage Estate (Te Anau)	140	106
,			
			-
			-
			1

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Total Network
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
Th	is schedule requires a summary of the key measures of network utilisation for the disclosure year (number of	new connections including
dis	tributed generation, peak demand and electricity volumes conveyed).	
sch re	f	
Q	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	Residential	900
12	Load Group 0	1
13	Load Group 1A	12
14	Load Group 1	(37)
	Load Group 2	198
	Load Group 3	8
	Load Group 3A	5
	Load Group 4	3
	Load Group 5	
15	Distributed Unmetered Load (excluding street lighting)	- 1
16	* include additional rows if needed	
17	Connections total	1,128
18		
19	Distributed generation	
20	Number of connections made in year Canacity of distributed generation installed in year	2 17 MVA
21	capacity of distributed Beneration installed in year	2.1/
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum coincident
25	Maximum coincident system domand	demand (MW)
25	GXP demand	251
27	plus Distributed generation output at HV and above	58
28	Maximum coincident system demand	309
29	less Net transfers to (from) other EDBs at HV and above	0
30	Demand on system for supply to consumers' connection points	309
21	Electricity volumes carried	Energy (GWh)
31	Electricity volumes carried	1 134
33	less Electricity exports to GXPs	49
34	plus Electricity supplied from distributed generation	300
35	less Net electricity supplied to (from) other EDBs	2
36	Electricity entering system for supply to consumers' connection points	1,382
37	less Total energy delivered to ICPs	1,307
38 39	Lieutiuty iosses (ioss ratio)	/5 5.4%
40	Load factor	0.51
41	9e(III): Transformer Capacity	
42		(MVA)
43 44	Distribution transformer capacity (EDB owned)	<u>942</u> 69
45	Total distribution transformer capacity	1,011
46		
47	Zone substation transformer capacity	967

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Dunedin Sub-network
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
Th	is schedule requires a summary of the key measures of network utilisation for the disclosure year (num	ber of new connections including
dis	stributed generation, peak demand and electricity volumes conveyed).	
sch re	ef	
8	9e(i): Consumer Connections	
9	Number of ICP's connected in year by consumer type	
10	Consumer types defined by EDR*	Number of connections (ICPs)
11	Residential	305
12	Load Group 0	_
13	Load Group 0A	16
14	Load Group 1A	(3)
	Load Group 1	(47)
	Load Group 2	28
	Load Group 3	2
	Load Group 4	(1)
	Load Group 5	-
	Street Lighting	_
15	Distributed Unmetered Load (excluding street lighting)	1
16	* include additional rows if needed	
17	Connections total	303
10 19	Distributed generation	
20	Number of connections made in year	78 connections
21	Capacity of distributed generation installed in year	0.37 MVA
22	9e(II): System Demand	
23 24		
		Demand at time
		coincident
25	Maximum coincident system demand	demand (MW)
26	GXP demand	159
27	plus Distributed generation output at HV and above	37
28	Maximum coincident system demand	197
29	less Net transfers to (from) other EDBs at HV and above	-
30	Demand on system for supply to consumers' connection points	197
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	706
33	less Electricity exports to GXPs	0
34	plus Electricity supplied from distributed generation	114
35	less Net electricity supplied to (from) other EDBs	_
36	Electricity entering system for supply to consumers' connection points	819
3/	Iotal energy delivered to ICPS	780
39		
40	Load factor	0.48
41	9e(III): Transformer Capacity	
42		(MVA)
43 44	Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	483
45	Total distribution transformer capacity	526
46		
47	Zone substation transformer capacity	586
	. ,	

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Central Otago and Wanaka Sub-network
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
Thi	is schedule requires a summary of the key measures of network utilisation for the disclosure year (num	ber of new connections including
dis	tributed generation, peak demand and electricity volumes conveyed).	
sch re	f	
8 9	Se(I): Consumer Connections	
9	Number of ters connected in year of consumer type	Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Residential	429
12	Load Group 0	(1)
13	Load Group 0A	7
14	Load Group 1A	10
	Load Group 1	13
	Load Group 3	2
	Load Group 3A	2
	Load Group 4	2
	Load Group 5	_
	Street Lighting	
15 16	Distributed Unmetered Load (excluding street lighting) * include additional rows if needed	
10	Connections total	548
18		
19	Distributed generation	
20	Number of connections made in year	242 connections
21	Capacity of distributed generation installed in year	1.32 MVA
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		coincident demand (MW/)
25	Maximum coincident system demand	
26	GXP demand	38
27	Maximum coincident system demand	65
29	less Net transfers to (from) other EDBs at HV and above	0
30	Demand on system for supply to consumers' connection points	64
31	Electricity volumes carried	Energy (GWh)
32	Electricity supplied from GXPs	194
34	nus Electricity supplied from distributed generation	170
35	less Net electricity supplied to (from) other EDBs	3
36	Electricity entering system for supply to consumers' connection points	313
37	less Total energy delivered to ICPs	291
38 20	Electricity losses (loss ratio)	22 7.1%
40	Load factor	0.55
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	286
44	Distribution transformer capacity (Non-EDB owned, estimated)	20
45	i otal distribution transformer capacity	306
40	Zone substation transformer capacity	220
		220

	Company Name	Aurora Energy Limited
	For Year Ended	31 March 2022
	Network / Sub-network Name	Queenstown Sub-network
S	CHEDULE 9e: REPORT ON NETWORK DEMAND	
Th	is schedule requires a summary of the key measures of network utilisation for the disclosure year (numl	per of new connections including
dis	stributed generation, peak demand and electricity volumes conveyed).	
sch re	ef	
8	9e(I): Consumer Connections Number of ICPs connected in year by consumer type	
9	Number of ters connected in year by consumer type	Number of
10	Consumer types defined by EDB*	connections (ICPs)
11	Residential	164
12	Load Group 0	2
13	Load Group 0A	14
14	Load Group 1A	5
	Load Group 1	(3)
	Load Group 2	4
	Load Group 3A	1
	Load Group 4	2
	Load Group 5	-
15	Street Lighting	
15 16	* include additional rows if needed	
17	Connections total	275
18		
19	Distributed generation	
20	Number of connections made in year	68 connections
21	Capacity of distributed generation installed in year	0.47
22	9e(ii): System Demand	
23		
24		Demand at time
		of maximum
		demand (MW)
25	Maximum coincident system demand	
26 27	GXP demand	2
28	Maximum coincident system demand	64
29	less Net transfers to (from) other EDBs at HV and above	-
30	Demand on system for supply to consumers' connection points	64
24	Electricity volumes carried	Energy (Clitch)
31	Electricity volumes carried	
33	less Electricity supplied non-GAPs	
34	plus Electricity supplied from distributed generation	16
35	less Net electricity supplied to (from) other EDBs	-
36	Electricity entering system for supply to consumers' connection points	249
37	less Total energy delivered to ICPs	235
38 39	Electricity losses (loss ratio)	14 5.0%
40	Load factor	0.44
41	9e(III): Transformer Capacity	
42		(MVA)
43 44	Distribution transformer capacity (EDB owned) Distribution transformer capacity (Non-EDB owned, estimated)	172
45	Total distribution transformer capacity	177
46		
47	Zone substation transformer capacity	162

		Company Name	Aurora	Energy Limited
		For Year Ended	31	March 2022
		Network / Sub-network Name	Tot	al Network
SC This on the in se	HEDULE 10: REPORT ON NETWORK RELIABILITY schedule requires a summary of the key measures of network reliability (interruptions, SAIE heir network reliability for the disclosure year in Schedule 14 (Explanatory notes to template ection 1.4 of the ID determination), and so is subject to the assurance report required by sec), SAIFI and fault rate) for the disclosure s). The SAIFI and SAIDI information is pa tion 2.8.	year. EDBs must pr rt of audited disclos	ovide explanatory comment ure information (as defined
8	10(i): Interruptions			
		Number of		
9	Interruptions by class	interruptions		
10	Class A (planned interruptions by Transpower)			
11	Class B (planned interruptions on the network)	1,060		
12	Class C (unplanned interruptions on the network)	570		
13	Class D (unplanned interruptions by Transpower)			
14	Class E (unplanned interruptions of EDB owned generation)			
15	Class F (unplanned interruptions of generation owned by others)	2		
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)	1 622		
20	Total	1,035		
20	Interruption restoration	≤3Hrs	>3hrs	
22	Class C interruntions restored within	418	152	
23			101	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	_	-	
26	Class B (planned interruptions on the network)	0.83	197.35	
27	Class C (unplanned interruptions on the network)	1.84	123.68	
28	Class D (unplanned interruptions by Transpower)	-	-	
29	Class E (unplanned interruptions of EDB owned generation)	-	-	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.00	
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	0.00	
34	Total	2.67	321.03	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	2.67	321.03	
38				

		Company Name	Aurora E	nergy Limited
		Eor Vear Ended	31 N	arch 2022
	Network / S	h-network Name	Tota	Network
			100	INCLWOIR
This so on the in sec 39 40 41 42	chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault eir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and tion 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 10(ii): Class C Interruptions and Duration by Cause Cause Lightning	rate) for the disclosure SAIDI information is po SAIFI 0.02	e year. EDBs must pro rrt of audited disclosu SAIDI 2.76	vide explanatory comment
13	Vegetation	0.14	12.72	
14	Adverse weather	0.02	7.07	
<i>15</i>	Adverse environment	0.00	1.14	
46	Third party interference	0.17	14.44	
47	Wildlife	0.04	5.05	
48	Human error	0.32	7.25	
49 50	Defective equipment	0.76	45.13	
50 51	Cause unknown	0.36	28.12	
52 53	10(iii): Class B Interruptions and Duration by Main Equipment Involved	CAIFI	CAIDI	
		SAIFI	SAIDI	
5	Subtransmission lines	0.00	0.01	
-7		_		
:0	Distribution lines (avaluding LV)	- 0.62	154.50	
39	Distribution cables (excluding LV)	0.05	30.75	
50	Distribution other (excluding LV)	0.04	12.10	
51 52	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
53	Main equipment involved	SAIFI	SAIDI	
54	Subtransmission lines	0.27	13.39	
55	Subtransmission cables		-	
6	Subtransmission other	0.23	7.06	
57	Distribution lines (excluding LV)	0.77	77.77	
58	Distribution cables (excluding LV)	0.09	4.65	
9	Distribution other (excluding LV)	0.49	20.81	
70	10(v): Fault Rate			
71	Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (fau per 100km)
2	Subtransmission lines	33	523	6.
3	Subtransmission cables	-	88	-
4	Subtransmission other	13		
5	Distribution lines (excluding LV)	251	2,288	10.
76	Distribution cables (excluding LV)	12	1,171	1.
76 77	Distribution cables (excluding LV) Distribution other (excluding LV)	12	1,171	1.

		Company Name	Aurora	Energy Limited
		For Year Ended	31	March 2022
		Network / Sub-network Name	Dunedi	n Sub-network
SCI This s on th in sec	HEDULE 10: REPORT ON NETWORK RELIABILITY schedule requires a summary of the key measures of network reliability (interruptions, SAIDI neir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates ction 1.4 of the ID determination), and so is subject to the assurance report required by secti	I, SAIFI and fault rate) for the disclosure s). The SAIFI and SAIDI information is pa on 2.8.	e year. EDBs must pr art of audited disclos	ovide explanatory comment ure information (as defined
8	10(i): Interruptions			
٥	Interruptions by class	Number of interruptions		
10	(loss A (planned interruptions by Transpower)			
11	Class R (planned interruptions on the network)			
12	Class C (unplanned interruptions on the network)	229		
13	Class D (unplanned interruptions by Transpower)			
14	Class E (unplanned interruptions of EDB owned generation)	_		
15	Class F (unplanned interruptions of generation owned by others)	-		
16	Class G (unplanned interruptions caused by another disclosing entity)	_		
17	Class H (planned interruptions caused by another disclosing entity)	-		
18	Class I (interruptions caused by parties not included above)	1		
19	Total	751		
20				
21	Interruption restoration	≤3Hrs	>3hrs	
22 23	Class C interruptions restored within	173	56	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	_	-	
26	Class B (planned interruptions on the network)	0.79	134.62	
27	Class C (unplanned interruptions on the network)	0.72	51.47	
28	Class D (unplanned interruptions by Transpower)		-	
29	Class E (unplanned interruptions of EDB owned generation)		-	
30	Class F (unplanned interruptions of generation owned by others)	-	-	
31	Class G (unplanned interruptions caused by another disclosing entity)		-	
32	Class H (planned interruptions caused by another disclosing entity)		-	
33	Class I (interruptions caused by parties not included above)	0.00	0.00	
34	Total	1.52	186.08	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	N/A	N/A	
38				

		Company Name	Aurora	Energy Limited
		For Voor Ended	31 M	Aarch 2022
	Natural / Cu	h notwork Nares	Duradi	
	Network / Su	о-песмогк мате	Dunedi	I SUD-NELWORK
SCI	HEDULE 10: REPORT ON NETWORK RELIABILITY			
This : on th in se	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault r neir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and S ction 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	ate) for the disclosure AIDI information is pa	e year. EDBs must pro art of audited disclosi	vide explanatory comment are information (as defined
39 40	10(ii): Class C Interruptions and Duration by Cause			
41	Cause	SAIFI	SAIDI	
42	Lightning	0.00	0.03	
43	Vegetation	0.13	11.24	
44	Adverse weather	-	-	
45	Adverse environment	0.00	0.01	
46	Third party interference	0.04	5.68	
47	Wildlife	0.03	1.30	
48	Human error	0.15	4.57	
49	Defective equipment	0.32	26.93	
50	Cause unknown	0.05	1.71	
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53				
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines	_	-	
56	Subtransmission cables	_	_	
57	Subtransmission other	_	_	
58	Distribution lines (excluding LV)	0.61	110.80	
69	Distribution cables (excluding LV)	0.16	20.36	
60	Distribution other (excluding LV)	0.03	3.45	
61 62	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
63	Main equipment involved	SAIFI	SAIDI	
64	Subtransmission lines	0.04	0.62	
65	Subtransmission cables	-	-	
66	Subtransmission other	0.07	0.36	
67	Distribution lines (excluding LV)	0.33	34.07	
68	Distribution cables (excluding LV)	0.03	2.84	
69	Distribution other (excluding LV)	0.25	13.57	
70	10(v): Fault Rate			
			Circuit length	Fault rate (fault
71	Main equipment involved	Number of Faults	(km)	per 100km)
72	Subtransmission lines	12	144	8.3
73	Subtransmission cables	-	66	-
74	Subtransmission other	5		
75	Distribution lines (excluding LV)	76	731	10.4
76	Distribution cables (excluding LV)	5	331	1.5
77	Distribution other (excluding LV)	81		
78	Total	179		

		Company Name	Aurora	Energy Limited
		For Year Ended	31	March 2022
		Network / Sub-network Name	entral Otago a	nd Wanaka Sub-networ
SCL		···· , ··· · · · · ·		
This s on the in sec	schedule requires a summary of the key measures of network reliability (interruptions, SAI eir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templation 1.4 of the ID determination), and so is subject to the assurance report required by set	IDI, SAIFI and fault rate) for the disclosur tes). The SAIFI and SAIDI information is p ction 2.8.	e year. EDBs must pr art of audited disclo:	ovide explanatory comment sure information (as defined
8	10(i): Interruptions			
		Number of		
9	Interruptions by class	interruptions	1	
10	Class A (planned interruptions by Transpower)			
11	Class B (planned interruptions on the network)	381		
12	Class C (unplanned interruptions on the network)	246		
13	Class D (unplanned interruptions by Transpower)	-		
14	Class E (unplanned interruptions of EDB owned generation)	-		
15	Class F (unplanned interruptions of generation owned by others)	2		
16	Class G (unplanned interruptions caused by another disclosing entity)			
17	Class H (planned interruptions caused by another disclosing entity)			
18	Class I (interruptions caused by parties not included above)			
19	Total	629	J	
20	Interruption restoration	<3Hrs	Shrs	
21	Class Cinterruptions restored within	166	20113	
22		100	80	
24	SAIFI and SAIDI by class	SAIFI	SAIDI	
25	Class A (planned interruptions by Transpower)	_	-	
26	Class B (planned interruptions on the network)	0.92	290.46	
27	Class C (unplanned interruptions on the network)	3.33	224.61	
28	Class D (unplanned interruptions by Transpower)	_	-	
29	Class E (unplanned interruptions of EDB owned generation)	_	-	
30	Class F (unplanned interruptions of generation owned by others)	0.00	0.01	
31	Class G (unplanned interruptions caused by another disclosing entity)		-	
32	Class H (planned interruptions caused by another disclosing entity)		-	
33	Class I (interruptions caused by parties not included above)		-	
34	Total	4.25	515.08	
35				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)	N/A	N/A	
38				

		Company Name	Aurora	Energy Limited
		Ear Voor Ended	21	March 2022
	Notwork / Su	FOR YEAR ENGED	Sentral Otago a	nd Wanaka Sub notwor
_	Network / Su	o-network name	entral Otago al	id wanaka Sub-networ
SC	CHEDULE 10: REPORT ON NETWORK RELIABILITY			
Thi on in s	s schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault r their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and S section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	ate) for the disclosur AIDI information is p	e year. EDBs must pr part of audited disclos	ovide explanatory comment sure information (as defined
39 40	10(ii): Class C Interruptions and Duration by Cause			
41	Cause	SAIFI	SAIDI	
42	Lightning	0.03	6.89	
43	Vegetation	0.19	20.40	
44	Adverse weather	0.08	26.15	
45	Adverse environment	0.01	4.72	
46	Third party interference	0.33	37.61	
47	Wildlife	0.01	2.28	
48	Human error	0.34	7.23	
49	Defective equipment	1.68	73.75	
50	Cause unknown	0.66	45.59	
51				
52 53	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines	0.00	0.04	
56	Subtransmission cables	_	-	
57	Subtransmission other	_	_	
58	Distribution lines (excluding LV)	0.71	218.24	
69	Distribution cables (excluding LV)	0.13	32.90	
60	Distribution other (excluding LV)	0.07	39.28	
61 62	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
63	Main equipment involved	SAIFI	SAIDI	
64	Subtransmission lines	0.91	36.94	
65	Subtransmission cables	-	-	
66	Subtransmission other	0.62	27.85	
67	Distribution lines (excluding LV)	1.21	132.88	
68	Distribution cables (excluding LV)	0.10	6.84	
69	Distribution other (excluding LV)	0.49	20.11	
70	10(v): Fault Rate			
			Circuit length	Fault rate (faults
71	Main equipment involved	Number of Faults	(km)	per 100km)
72	Subtransmission lines	19	310	6.13
73	Subtransmission cables		9	
74	Subtransmission other	7		
75	Distribution lines (excluding LV)	141	1,271	11.09
76	Distribution cables (excluding LV)	3	553	0.54
77	Distribution other (excluding LV)	62		
78	Total	232		

		Company Name	Aurora E	nergy Limited
		For Year Ended	31 N	arch 2022
		Network / Sub-network Name	Queensto	vn Sub-network
SCH This so on the in sect	IEDULE 10: REPORT ON NETWORK RELIABILITY chedule requires a summary of the key measures of network reliability (interruptions, SA ir network reliability for the disclosure year in Schedule 14 (Explanatory notes to template tion 1.4 of the ID determination), and so is subject to the assurance report required by se	DI, SAIFI and fault rate) for the disclosure tes). The SAIFI and SAIDI information is pa ction 2.8.	year. EDBs must pro rt of audited disclosu	vide explanatory comme re information (as define
ref	10/i): Interruntions			
0		Number of		
9	Interruptions by class	interruptions		
)	Class A (planned interruptions by Transpower)	_		
	Class B (planned interruptions on the network)	158		
2	Class C (unplanned interruptions on the network)	95		
	Class D (unplanned interruptions by Transpower)	-		
	Class E (unplanned interruptions of EDB owned generation)	_		
	Class F (unplanned interruptions of generation owned by others)	-		
	Class G (unplanned interruptions caused by another disclosing entity)	_		
	Class H (planned interruptions caused by another disclosing entity)	_		
	Class I (interruptions caused by parties not included above)	_		
	Total	253		
1				
	Interruption restoration	≤3Hrs	>3hrs	
	Class C interruptions restored within	79	16	
	SAIFI and SAIDI by class	SAIFI	SAIDI	
	Class A (planned interruptions by Transpower)	-	-	
	Class B (planned interruptions on the network)	0.83	298.17	
	Class C (unplanned interruptions on the network)	3.90	248.36	
	Class D (unplanned interruptions by Transpower)	-	-	
	Class E (unplanned interruptions of EDB owned generation)	_	-	
	Class F (unplanned interruptions of generation owned by others)	-	-	
	Class G (unplanned interruptions caused by another disclosing entity)		-	
	Class H (planned interruptions caused by another disclosing entity)		_	
	Class I (interruptions caused by parties not included above)	_	-	
	Total	4.73	546.53	
5	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
7	Classes B & C (interruptions on the network)	N/A	N/A	

		Company Name	Aurora	Energy Limited
		For Voge Federal	21 1	Aarch 2022
		For year Ended	511	
	Network / Su	o-network Name	Queensto	wn Sub-netWOrk
SC	HEDULE 10: REPORT ON NETWORK RELIABILITY			
This on t in se	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault r heir network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and S ection 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	ate) for the disclosure AIDI information is pa	year. EDBs must pro int of audited disclos	wide explanatory comment ure information (as defined
39 40	10(ii): Class C Interruptions and Duration by Cause			
41	Cause	SAIFI	SAIDI	
42	Lightning	0.10	6.99	
43	Vegetation	0.10	6.74	
44	Adverse weather	0.04	5.02	
45	Adverse environment	_	-	
46	Third party interference	0.44	12.73	
47	Wildlife	0.13	23.87	
48	Human error	0.96	17.76	
49	Defective equipment	1.03	71.77	
50	Cause unknown	1.11	103.50	
51				
52	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
53				
54	Main equipment involved	SAIFI	SAIDI	
55	Subtransmission lines			
56	Subtransmission rables			
57	Subtransmission other	_		
58	Distribution lines (excluding LV)	0.60	226.60	
69	Distribution cables (excluding LV)	0.20	67.85	
60	Distribution other (excluding LV)	0.02	3.72	
61 62	10(iv): Class C Interruptions and Duration by Main Equipment Involved			
63	Main equipment involved	SAIFI	SAIDI	
64	Subtransmission lines	0.20	26.59	
65	Subtransmission cables			
66	Subtransmission other	0.24	0.95	
67	Distribution lines (excluding LV)	1.78	162.44	
68	Distribution cables (excluding LV)	0.30	8.34	
69	Distribution other (excluding LV)	1.39	50.04	
70	10(v): Fault Rate			
			Circuit length	Fault rate (faults
71	Main equipment involved	Number of Faults	(km)	per 100km)
72	Subtransmission lines	2	70	2.86
73	Subtransmission cables	_	13	-
74	Subtransmission other	1		
75	Distribution lines (excluding LV)	34	285	11.93
76	Distribution cables (excluding LV)	4	285	1.40
77	Distribution other (excluding LV)	27		
78	Total	68		

Company Name	Aurora Energy Limited

For Year Ended

31 March 2022

Schedule 14 Mandatory Explanatory Notes

(Guidance Note: This Microsoft Word version of Schedules 14, 14a and 15 is from the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018. Clause references in this template are to that determination)

- 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.
- 4. Return on Investment (Schedule 2)
- 5. 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: Explanatory comment on return on investment

The RY22 ROI exceeded the estimated WACC used to set Aurora Energy's price path. The RY22 ROI is above the 75th percentile of WACC, that has been estimated by the Commerce Commission for Information Disclosure purposes. The main driver of these results has been the increase in RAB revaluations.

Aurora Energy is subject to an incremental rolling incentive scheme (IRIS) under price-quality regulation. The IRIS seeks to incentivise EDBs to control expenditure by penalising them if they exceed expenditure allowances, determined by the Commerce Commission, and rewarding them if expenditure is below the allowance.

Aurora Energy exceeded its operational expenditure (opex) and capital expenditure (capex) allowances in the regulatory periods leading up to March 2021, as it sought to address a period of underinvestment on its network. The overspends gave rise to opex and capex IRIS penalties of \$15.363 mil and \$1.451 mil respectively. These penalties were deducted from the company's allowable revenue calculation when setting prices for RY22.

IRIS allowances are a designated recoverable cost in price-quality regulation and are therefore recovered through pass-through prices, rather than distribution prices. Consistent with our Pricing Methodology we have allocated the IRIS incentive to pricing areas and load groups in proportion to last year's revenue recoveries in those areas and groups . We consider this is the most equitable way of allocating the incentive – customers who paid greater charges in the past, when Aurora Energy's expenditure allowances were being hexceeded, should receive a greater share of the money being returned.

No items have been reclassified in accordance with clause 2.7.1(2).

Regulatory Profit (Schedule 3)

- 6. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
 - 6.1 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
 - 6.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

Regulatory profit for the year to 31 March 2022 is \$41.8 mil before tax. This represents a \$32.3 mil increase from the previous year.

The increase was largely driven by revaluations (+\$29.7mil) and higher line revenue (+\$7.4 mil) offset by higher expenses in depreciation (+\$2.1 mil), pass-through-costs (+\$1.2 mil) and regulatory tax (\$0.9 mil)

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

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

Box 3: Explanatory comment on merger and acquisition expenditure

There were no merger and acquisition costs incurred.

Value of the Regulatory Asset Base (Schedule 4)

8. 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: Explanatory comment on the value of the regulatory asset based (rolled forward)

The RAB increased by \$105.6 mil over RY22. An increase of \$55.7 mil on the prior disclosure year's increase of \$49.9 mil. The drivers of the increase were higher commissioned assets (+\$31.9 mil) and revaluations (+\$29.7 mil), partially offset by higher depreciation (\$2.1 mil) and disposals (\$1.3 mil). There were no found assets during the disclosure year. In RY21, \$2.6 mil of assets were found.

The increase in RY22 commissioned assets are due to an uplift in the value of pole replacements across the Subtransmission (\$12.8 mil) and Distribution & LV Lines asset categories (\$15.3 mil).

Aurora Energy has also improved project management processes, improving asset commissioning efficiency.

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

- 9. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-
 - 9.1 Income not included in regulatory profit / (loss) before tax but taxable;

- 9.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;
- 9.3 Income included in regulatory profit / (loss) before tax but not taxable;
- 9.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

The amount of \$11,181 relating to 'Expenditure or loss in regulatory profit or (loss) before tax but not deductible' is non-deductible entertainment.

The amount of \$1,169,503 relating to 'Expenditure or loss deductible but not in regulatory profit / (loss) before tax' relates to payments for leases that are classified as Right of Use (ROU) assets.

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

10. 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: Tax effect of other temporary differences (current disclosure year)

Temporary timing differences of \$ 1,577,565 recorded in the current disclosure year relate to the tax effect of income spreading over 10 years on capital initiated works (\$1,669,607), upward movement in provision for expected credit losses (doubtful debts) (\$5,600) and decrease in employee entitlements (\$97,642).

No items have been reclassified in accordance with clause 2.7.1(2).

Cost allocation (Schedule 5d)

11. 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: Cost allocation

Aurora Energy no longer provides shared services, i.e., payroll, payables, or information technology services to Delta. Accordingly, all opex is 100% directly attributable to the regulated business.

No items have been reclassified in accordance with clause 2.7.1(2).

Asset allocation (Schedule 5e)

12. 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: Commentary on asset allocation

Aurora Energy no longer provides shared services, i.e., payroll, payables, or information technology services to Delta. Accordingly, all non-network assets are 100% allocated to RAB.

Other network assets includes a fibre network that comprises of ducting / high speed broadband fibre utilised for communications between the Dunedin zone sub-station sites. It is assessed that for RY22, 75.5% of the network is utilised for communications between the Dunedin zone sub-station sites (RY21: 75.5%).

No items have been reclassified in accordance with clause 2.7.1(2).

Capital Expenditure for the Disclosure Year (Schedule 6a)

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

Box 9: Explanation of capital expenditure for the disclosure year

Aurora's Asset Management Plan identifies contains the 10 year expenditure forecasts relating to capital projects and programmes of work to be undertaken in each regulatory year. The projects and programmes are grouped by the regulatory expenditure categories of consumer connection, system growth, asset replacement and renewal, asset relocations, reliability, safety and environment and non-network capex).

Consumer connection capital expenditure, disclosed in 6a(iii), is inclusive of all connections. Insufficient data is currently captured to align that expenditure with consumer load groups. The listed projects within this schedule are the higher value projects included within the specific reporting categories.

No items have been reclassified in accordance with clause 2.7.1(2).

Operational Expenditure for the Disclosure Year (Schedule 6b)

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

- 14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
- 14.2 Information on reclassified items in accordance with subclause 2.7.1(2);
- 14.3 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: Explanation of operational expenditure for the disclosure year

The CPP decision process and timing gave rise to a soft start to resourcing commitments and improvement programs in RY22. The draft CPP decision in November 2020 signalled lower non-network allowances than applied for, giving rise to the deferral of less critical RY22 SONS and business support improvement plans. Final CPP regulatory allowances were higher than the draft decision but not known until 31 March 2021.

RY22 OPEX was \$5.7 mil below the CPP expenditure allowance for RY22.

RY22 network maintenance was \$1.2 mil below the CPP allowance largely due to a \$1.6 mil underspend on service interruptions and emergencies. Corrective and preventative maintenance was \$0.5 mil overspent, whilst vegetation management ended the year \$0.1 mil below the approved allowance.

RY22 non-network opex was \$4.5 mil below the CPP allowance at \$26.6 mil. Components of the underspend included:

- SONS expenditure was circa \$3.1 mil below allowance inclusive of underspends in network evolution (-\$0.9 mil), consultancy (-\$0.6 mil), payroll (-\$0.1 mil) and other system operating and support costs (-\$1.5 mil),
- Business support expenditure was circa \$1.4 mil below budget inclusive of underspends in people costs (-\$1.1 mil) and other business support costs (-\$0.3 mil).

No items have been reclassified in accordance with clause 2.7.1(2).

Variance between forecast and actual expenditure (Schedule 7)

15. 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: Explanatory comment on variance in actual to forecast expenditure

Overall, Aurora's total asset expenditure was \$4.3 mil (5%) higher than forecast 5%.

Consumer connection growth reflects the continuing higher levels of development activity than recognised in the CPP decision, mainly on the Central Otago/Wanaka and Queenstown subnetworks.

System growth expenditure was higher than forecast largely due to a catch up in expenditure on prior period projects.

The asset replacement and renewal expenditure variance (-\$3.6 mil) is largely due to underspends on the following network programmes:

- Cross-arm replacements programme; and
- Distribution switchgear replacement programme

We expect this underspend to catch up in future years.

Asset relocations variance was lower than forecast largely due to the Cardrona new feeder project delays due to feeder configuration changes.

Total reliability, safety, and environment was higher than forecast due to additional expenditure relating to new generators at the Omakau substation to provide additional load during peak times.

Non-network capex was lower than expected largely due a delay in our Asset Management Systems project.

Service interruptions and emergencies expenditure was below allowance due to lower levels of reactive maintenance work.

RY22 vegetation management and routine and corrective maintenance expenditure was within 5% of forecast for the year.

Whilst the RY22 OPEX allowance was close to application levels, the profile of the approved allowances from RY23 is such that the Commission has imposed aggressive 'efficiency' adjustments in the latter years of the 5-year CPP. In this context then, our preparation for RY22 was initially cautious which coupled with the impact of Covid-19 operating restrictions caused RY22 resourcing plans and project-based improvements to be delayed.

Information relating to revenues and quantities for the disclosure year

- 16. In the box below, provide-
 - 16.1 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

16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 12: Explanatory comment relating to revenue for the disclosure year <u>Total Revenue:</u>

The forecast revenue from line charges was \$107.112 million (RY2022 Annual Price-Setting Compliance Statement).

In Schedule 8 (Total Network), we have reported total line charge revenue of \$105.829 million. This is a difference of \$1.283 million (1.2%) below target. It is generally expected that total billed line charge revenue for an assessment period will be different from target revenue due to variation in connection numbers and energy demand.

Residential Revenue:

In this assessment period, the volume of energy delivered to Residential consumers (the only consumer groups with volume-based pricing) decreased from the prior year (by 1.7%). Energy delivered to Residential connections for the year ended 31 March 2022 was 618.6 GWh compared with 629.1GWh last year.

The average number of Residential connections increased by 1.2% during the assessment period. The average number of residential connections for the year ended 31 March 2022 was 78,090, compared with 77,158 for the year ended 31 March 2021.

The average energy use per Residential consumer in this assessment period has decreased by 2.8% from 8,153 kWh for the year ended 31 March 2020 to 7,921 kWh in this assessment period.

General Revenue:

The average number of General connections, which are priced predominantly on the basis of demand and capacity, increased from 14,926 in RY21 to 15,186 in this assessment period (1.7%). This increase was smaller than forecast, likely reflecting the ongoing impact of the Covid 19 pandemic.

The distinction between Residential and General connections is explained in section 4 of Aurora Energy's Use-of-System Pricing Methodology, available from <u>http://www.auroraenergy.co.nz/disclosures/pricing/pricing-methodologies</u>

Network Reliability for the Disclosure Year (Schedule 10)

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

Box 13: Commentary on network reliability for the disclosure year

Supplementing the definitions contained in the Electricity Distribution Information Disclosure Determination 2012, the following categorisations are disclosed:

- Overhead (subtransmission and distribution) includes poles, stay-wires, crossarms, braces, insulators, conductor (including droppers and connectors), binders and ties.
- Underground (subtransmission and distribution) includes cable, mounting brackets, terminations and potheads.
- Other (subtransmission and distribution) includes HV fuses (including fuse operation), lightning arrestors, transformers, switchgear, switching and control errors.
- Faults include unplanned events <1 minute, and events not resulting in loss of supply to a consumer, which would otherwise be excluded from consideration as an interruption. This, in our view, meets the broad definition of "Fault" given in the Determination – "a physical condition that causes a device, component or network element to fail to perform in the required manner".

Specific commentary on matters relating to Aurora Energy's reliability performance for the disclosure year is contained in Aurora Energy's Annual Compliance Statement (2022), available from <u>https://www.auroraenergy.co.nz/disclosures/price-quality-path/</u>.

Insurance cover

- 18. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-
 - 18.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
 - 18.2 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: Explanation of insurance cover

Insurance cover has been obtained / is in place for zone substations, both for the buildings and the plant and equipment contained within them. The material damage (including flood, earthquake etc.) cover for the zone substations and associated equipment is on a replacement cost basis. Material Damage Insurance cover has been obtained for some distribution assets including distribution substations, transformers, and switches.

Other distribution assets including distribution poles, lines and cables etc. are not currently insured due to the unavailability of commercial policy terms, geographical spread, the lower value of the individual assets and the reduced likelihood of significant loss on any less than region wide event.

Amendments to previously disclosed information

- 19. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
 - 19.1 a description of each error; and
 - 19.2 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 *There have been no amendments to previously disclosed information.* Company Name Aurora Energy Limited

For Year Ended 31 March 2022

Schedule 15 Voluntary Explanatory Notes

(In this Schedule, clause references are to the Electricity Distribution Information Disclosure Determination 2012 – as amended and consolidated 3 April 2018.)

- 1. This schedule enables EDBs to provide, should they wish to-
 - 1.1 1.1 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;
 - 1.2 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.

Box 1: Voluntary explanatory comment on disclosed information

Successive interruptions

Aurora Energy, along with all other EDBs, received an exemption from the Commerce Commission, issued on 17 May 2021, regarding the disclosure and auditing of reliability information within Schedule 10. The information in this box is disclosed in accordance with paragraphs 6 and 7 of that exemption.

Treatment of successive interruptions between disclosure years 2021 and 2022: We have treated successive interruptions in the same way for the 2022 disclosure year as we did for the 2021 disclosure year.

Process applied in recognising successive interruptions following an initial outage: We have recognised any stage of an outage event that interrupts consumers for a second time, or interrupts 'new' consumers as a result of fault finding, as an additional interruption, strictly in line with the definition of "interruption" included in the Electricity Distribution Information Disclosure Determination 2012.

Annual Delivery Report

On 9 August 2022, Aurora Energy was granted an exemption by the Commerce Commission from procuring an assurance report for clauses 1.6.3 (asset replacement and renewal) and 1.6.4 (vegetation management) of Attachment C of the Determination for the 2022 disclosure year, subject to Aurora Energy publishing the reasons for disclosing the unaudited information using the form set out in Schedule 15 Voluntary Explanatory Notes of the Determination, in its information disclosure submission for the 2022 disclosure year.

The information disclosed in this Box 1 is to meet that condition.

The reasons for disclosing unaudited information with respect to clauses 1.6.3 and 1.6.4 in tables 3 and 4 of the Annual Delivery Report, are as follows:

- The enhanced information disclosures required by clauses 1.6.3 and 1.6.4 of Attachment C of the Determination were implemented five months after RY22 had commenced and include new requirements to produce information that we had not previously had to collect and report. As a result, we had to establish, part way through the year, new processes and controls for collecting and reporting the required information;
- The processes and controls we have used to compile certain quantitative information for the 2022 Annual Delivery Report, owing to the timing of publication of the Determination, were not as able to be evidenced to Audit NZ as those we have been able to develop for the quantitative information we will disclose in the Annual Delivery Report in subsequent disclosure years; and
- There was a risk that, because of the timing of the Determination, we could not reasonably meet the assurance standard set out in clause 2.8 of the Determination. Our inability to meet that assurance standard would not have been the result of any failure on the part of our data capture or reporting of information, but simply because the information now required was not part of our reporting processes prior to the implementation of the enhanced disclosure obligations.



1 Description of the connection between Aurora Energy and its related parties

Pursuant to clause 2.3.8 of the Electricity Distribution Information Disclosure Determination 2012 (Determination), the following table describes the connection between Aurora Energy and the related parties with which it has had related party transactions during the year ended 31 March 2022.

RELATED PARTY	RELATIONSHIP BETWEEN AURORA AND THE RELATED PARTY	PRINCIPAL ACTIVITIES OF THE RELATED PARTY	TOTAL ANNUAL EXPENDITURE INCURRED BY AURORA ENERGY WITH THE RELATED PARTY
Delta Utility Services Limited (Delta)	Aurora Energy and Delta are related by virtue of DCHL being the ultimate holding company of Aurora Energy and Delta. DCHL is the sole shareholder of Delta.	Delta is a multi-utility services contractor providing a range of electrical and other services to local authority and private sector clients. The principal activities of Delta are the management, construction, operation and maintenance of electricity and metering infrastructure assets, and the provision of environmental contracting and related services.	\$50,654,000 This expenditure is in relation to operating and capital expenditure incurred by Aurora Energy with Delta.
Dunedin City Council (DCC)	The DCC is the sole shareholder of DCHL.	The DCC is the territorial authority for the Dunedin area in accordance with the Local Government Act 2002.	\$889,000 This expenditure is primarily in relation to local rates that are payable to the DCC.
Dunedin International Airport Limited (DIAL)	Aurora Energy and DIAL are related by virtue of DCHL being the ultimate holding company of Aurora Energy and a shareholder of DIAL.	The primary activity of DIAL is to operate an efficient and safe airport utilising sound business principles, for the benefit of both commercial and non-commercial aviation users.	\$1,000 This expenditure is in relation to venue hire fees.
Dunedin Venues Management Limited (DVML)	Aurora Energy and DVML are related because DCHL is the ultimate holding company of	The principal activities of DVML are to source and secure appropriate events for all venues under its management, to plan host and deliver events to a high standard, to manage the assets and facilities for which it is responsible and to	\$6,000 This expenditure is in relation to venue hire fees.

RELATED PARTY	RELATIONSHIP BETWEEN AURORA AND THE RELATED PARTY	PRINCIPAL ACTIVITIES OF THE RELATED PARTY	TOTAL ANNUAL EXPENDITURE INCURRED BY AURORA ENERGY WITH THE RELATED PARTY
	Aurora Energy and DVML. DCHL is the sole shareholder of DVML.	facilitate community access to the venues for which it is responsible.	

2 Summary of Aurora Energy's current procurement policy

Pursuant to clause 2.3.10 of the Determination, the following is a summary of Aurora Energy's current policy in respect of the procurement of assets or goods or services from any related party.

2.1 Introduction

Aurora Energy is an electricity distribution business (EDB) which owns and operates electricity distribution networks in Dunedin and Central Otago (including Queenstown Lakes). We own and manage a wide range of assets that are used to transport electricity from the national grid, owned by Transpower, to end-use consumers.

Our role is to ensure the safety and resilience of the network, supplying a reliable electricity service to over 92,000 homes, farms and businesses throughout the regions we serve.

We are regulated by the Commerce Commission in relation to both the quality of the electricity we supply and the revenue that we are able to generate.

As a result of the regulated constraints within which we operate, it is important for us to ensure that our procurement practices are efficient, controlled and robust. This will result in lower costs to our business, which in turn results in lower costs to consumers in the long term. It will also ensure that we are procuring the right goods and services for our network.

This section 2 summarises briefly the procurement principles that we adopt when procuring goods and services and the procurement methods that we employ.

2.2 Procurement Principles

- 1. *Plan and manage for great results:* we take a strategic approach by considering the long-term benefits, economic impacts and consequences of procurement decisions for Aurora Energy. This means planning procurement requirements in advance, choosing the appropriate procurement method and ensuring we have appropriately skilled and experienced staff to lead procurement activities;
- 2. Be fair to all suppliers: we will ensure that all eligible suppliers have a fair opportunity to participate in procurements by encouraging capable suppliers to respond, treating all suppliers equally and making it easy to deal with us;
- 3. Get the right supplier: while we will not always choose the lowest price, we will choose the right supplier who can deliver what we need, at a fair price and on time. We need to consider safety on, and reliability of, our network, durability, specialised skills that may be required, availability of resources in the current labour market and the sustainability of suppliers on our network;
- 4. Get the best deal for everyone: we will seek the best possible outcome taking into account the total cost of ownership over the whole life of the asset. This means balancing financial and non-financial criteria, balancing risks with benefits, employing robust evaluation processes and working together with suppliers to make ongoing savings and improvements.
- 5. *Play by the rules:* we must ensure that we are transparent, accountable and acting at all times lawfully by being consistent, adhering to best practice, being accurate and unbiased, acting with integrity and good faith and in accordance with the law.

When procuring goods and services, we may not always choose the lowest price, instead we may, having adhered to the above principles, make robust and sound commercial decisions to ensure that we are getting the best commercial outcome.

When determining the appropriate method of procurement it is important to consider the criticality of the goods or services to be supplied and the risks or business impact of non-supply. The identification of low value, low risk goods and services versus high value, highly critical goods or services helps to inform the appropriate procurement method to use.

2.3 Procurement methods

We employ the following procurement methods in the course of our business:

- direct procurement: in certain circumstances it will be appropriate to procure goods and services directly from one supplier, for example where the goods and services are low in both value and risk, or where the goods and services are both high in value and risk. This may also be an appropriate method of procurement where the circumstances are unforeseen and an urgent response is required;
- *written quotations:* this is appropriate where the good or service being procured is lower in value, but higher in risk;
- **tender:** where the good or service being procured is high in both value and risk, a formal tender process (either open or selective) may be conducted). It may be necessary for tender participants to be approved by Aurora Energy to work on our distribution network, and to design and construct additions to the network.;
- **panel arrangement:** for certain works, we have a panel arrangement in place with several contractors who operate on our distribution network. We adopt this approach to ensure that we are able to deliver our works programme and have the capacity and capabilities on our network to do so;
- All-of-Government contract: Aurora Energy is a party to several All-of-Government contracts and benefits from the bulk-purchasing power associated with those contracts; and
- **Group purchasing:** Aurora Energy is a subsidiary of Dunedin City Holdings Limited and in certain situations has the ability to use the bulk-purchasing power associated with that group.

The following table provides a representative example of the procurement methods that we employ in relation to each category of expenditure.

TYPE OF EXPENDITURE	PROCUREMENT METHODS		
OPERATING EXPENDITURE			
Non-network operating expenditure:business supportsystem operations and network support	 Direct procurement – low value, low risk Written quotes All-of-Government Group purchasing 		
 Network operating expenditure: routine and corrective maintenance and inspection vegetation management asset replacement and renewal service interruptions and emergencies 	 Panel arrangement Direct procurement 		
Customer initiated works	 Customer-led (a customer or developer may use their own contractor provided that they are an Aurora Approved Contractor). 		
 Network and non-network capital expenditure: system growth reliability, safety and environment asset replacement and renewal asset relocations non-system fixed assets (ie IT systems, asset management systems, office buildings and furniture, motor vehicles). 	 Panel arrangement Direct procurement Tender All-of-Government 		

3 Application of procurement policy

Pursuant to clause 2.3.12 of the Determination, the following illustrates Aurora Energy's application of its current policy in respect of the procurement of assets or goods or services from a related party.

3.1 Description of application of Aurora Energy's current procurement policy for the procurement of assets or goods or services from a related party in practice

Historically, Delta undertook both asset management and service provider roles on behalf of Aurora Energy, the asset owner. Following an independent review in early 2017, our shareholder, DCHL, sought formal separation of the two businesses. From 1 July 2017, Aurora Energy became a standalone regulated asset owner and manager, with accountability for providing electricity distribution services.

The separation reinforces that Aurora Energy has a clear responsibility to seek the best available services from the market on behalf of its customers. In order to achieve this, we have introduced contestable performance based service delivery arrangements with two additional field service providers - Unison Contracting based in Dunedin, and Connetics based in Central Otago. Our new contracts with Unison and Connetics took effect from 1 April 2019. Unison Contracting and Connetics appointment as contractors on our network sees them carrying out renewal, maintenance and development work.

This new arrangement between the three contractors has been consolidated in the field services agreement (FSA) that we have entered into with each contractor. Each FSA had an initial term of three years, which provides us with an opportunity on a regular basis to refresh and test our

contractual relationship. The FSAs with all providers were renewed during 2021 for a further two years, and have therefore become five year agreements.

Given our specialised needs as an electricity distributor, while we acknowledge that it is important that we are clear about our needs, we need to choose suppliers who can deliver what we need, at a fair price and on time. We need to consider the safety of both consumers and contractors on our network, our ability to provide a reliable supply of electricity to consumers on the network, specialised skills that are required to deliver the work we require, the availability of resources in the current labour market and the sustainability of specialist skill sets within our network and the viability of incumbent service providers.

Traditionally Delta has delivered a large portion of our network operational and capital expenditure works. The skills required to operate on, and knowledge of, our network that it has gained over years, together with the fact that there has traditionally not been any other service provider on the network means that Delta remains, at this point in time, the contractor on our network that is best placed to perform certain types of work, for example first response and fault repair.

Delta has traditionally performed vegetation management services as well. However, from 1 April 2022, vegetation management for the Queenstown subnetwork is procured separately to the FSA under a specific vegetation services agreement (VSA). The term of the VSA is five years and was competitively tendered on the open market.

With Unison and Connetics having now established themselves as additional service providers, we need to continue to monitor the application of our procurement policies to ensure that our procurement practices remain efficient. We also need to ensure that those practices are providing the means and incentives for Unison and Connetics to offer alternative solutions and further embed themselves as long-term contractors on our network and to be able to offer Aurora Energy alternative solutions to works delivery. We also understand the need to provide Unison and Connetics with sufficient work to ensure their viability on our network.

In addition to our FSA arrangements, we also operate an external tender market into which works are submitted each year and approved contractors (in addition to our FSA partners) are invited to tender. Delta, plus the other FSA providers and other approved contractors participate in this external tender market.

We also have established an Engineering Services Consultancy Panel to provide specific electricity design services for asset replacement and renewal projects and growth projects. The panel consists of engineering consulting companies, including Delta.

Together with the other approved contractors on our network, Delta provides customer connection services at market value rates. Under our customer initiated works model, customers or developers are able to choose their own designer and builder from a panel of approved contractors operating on our network.

Internally, staff responsibilities and purchasing controls are managed by delegated financial authorities and claim verification procedures. Our procurement activities are also overseen by the Audit and Risk Committee of the Board.

Our procurement policy details the methods that we use to procure goods and services from any party, whether they be related or not, and those methods are contained in the summary at section 2 above.

3.2 Policies or procedures that require or have the effect of requiring a consumer to purchase assets or goods or services from a related party

Aurora does not have policies or procedures that require a consumer to purchase goods or services from a related party. Aurora has a selection of Approved Contractors operating on the network, from which customers can choose from.
3.3 Representative example transactions from the year ended 31 March of how the current policy for the procurement of assets or goods or services from a related party is applied in practice, including separate representative example transactions where Aurora Energy has applied the policy significantly differently between expenditure categories

EXPENDITURE CATEGORY	REPRESENTATIVE EXAMPLE	PROCUREMENT METHOD	HOW AND WHEN ARM'S LENGTH TERMS LAST TESTED		
Operating expenditure					
Service interruptions and emergencies	Service interruptions and Response to a fault at a zone-substation emergencies		The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.		
Vegetation management	n management Liaison and cutting on specified feeders in the Frankton region		The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.		
Routine and corrective maintenance and inspection	orrective Inspections of wood poles and inspection Inspection		The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.		
System operations and network support	Provision of logistic services including provision of storage facilities.	Services were procured through the negotiated FSA	The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.		
Business support	Rental of office premises	Direct procurement	Market lease rates were tested on 5 March 2020 when an independent valuation report was obtained.		
Capital expenditure					
System growth	Upgrade of low voltage board within distribution transformer	Services were procured through the negotiated FSA	The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.		
	Installation of new high voltage feeder	Tender	The terms were last tested on 25 March 2022.		

EXPENDITURE CATEGORY	REPRESENTATIVE EXAMPLE	PROCUREMENT METHOD	HOW AND WHEN ARM'S LENGTH TERMS LAST TESTED
Asset replacement and renewal	Replacement of conductor and poles	Services were procured through the negotiated FSA.	The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.
Asset relocations Relocation of overhead network on third party (Chorus) owned poles		Services were procured through the negotiated FSA.	The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.
Reliability, safety and environmentInstallation of heat-pumps at zone substations		Services were procured through the negotiated FSA.	The terms upon which services are provided, and the rates at which services are charged, were tested in 2018 during the development of the three FSAs.
Non-network assets	Installation of safety hand-rail at office	Direct procurement	Not tested.

4 Map of anticipated network expenditure and network constraints

Pursuant to clauses 2.3.13 to 2.3.16 of the Determination, the following tables and associated maps provide detail on Aurora Energy's 10 largest operational and capital expenditure projects in the AMP planning period.

4.1 Top 10 operational and capital expenditure projects

The following tables and corresponding maps identify our largest anticipated operational and expenditure projects on our network in the AMP planning period. The legends contained on the maps of our subnetworks correspond to the project number in each table.

4.1.1 Operational expenditure projects

In relation to operational expenditure, we have four main programmes of work that affect the whole of our network:

- preventive maintenance;
- reactive maintenance;
- vegetation management; and
- corrective maintenance.

We have included details of each of these programmes in the table below and have identified, for preventive and corrective maintenance, those subprogrammes that sit within each of those that contribute to our ten largest operational expenditure programmes. Note the value of projects are expressed in nominal terms.

DESCR FUTURE PROJE	IPTION OF THE PROJECT (INCLUDING ANY POSSIBLE E NETWORK OR EQUIPMENT CONSTRAINT THAT THE CT ADDRESSES)	LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
Operational expenditure					
1.	Preventive MaintenanceThisprogrammeencompassesroutinemaintenanceactivitiesincludingtesting,inspections, condition assessments and servicing.We have incorporated high level and lower levelprogrammes (where possible) into the top 10 list toshow visibility of high value works of similar type.	RY23-32	\$70.7 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.

DESCRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE FUTURE NETWORK OR EQUIPMENT CONSTRAINT THAT THE PROJECT ADDRESSES)		LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
	We have identified our likely spend over the AMP planning period at a high programme level, while each lower level programme reflects how that expenditure is allocated in RY23.				
1a.	Pole Inspections This programme of works encompasses the preventive inspection of poles on the Aurora Energy network.	RY23	\$1.9 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
1b.	RMU Preventive Maintenance This programme of works encompasses the carrying out of preventive maintenance on Aurora Energy's RMUs.	RY23	\$1.1 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
1c.	Zone Substation Preventive Maintenance This programme of works encompasses the carrying out of preventive maintenance in Aurora Energy's zone substations.	RY23	\$1.0 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
1d.	Overhead Conductor Inspections This programme of works encompasses the carrying out of preventive inspections on Aurora Energy's overhead conductors.	RY23	\$1.0 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.

DESCF FUTUR PROJE	RIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE E NETWORK OR EQUIPMENT CONSTRAINT THAT THE CCT ADDRESSES)	LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
1e.	Ancillary Distribution Substation Equipment Preventative Maintenance This programme of works encompasses the carrying out of preventive maintenance in Aurora Energy's ancillary distribution substation equipment.	RY23	\$0.4 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
1f.	LV Enclosure Inspections This programme of works encompasses the carrying out of preventive inspections on Aurora Energy's LV enclosures.	RY23	\$0.3 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
2.	Reactive Maintenance Expenditure related to unplanned interruptions to the supply of electricity through the Aurora Energy network and emergency events where a fault has occurred, require response by field-based contractors on our network.	RY23-32	\$51.1 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. Under the FSAs, this programme of works is primarily contracted to a related party, Delta, however two other contractors on our network, to whom we are not related, are contracted to provide additional resource for service interruptions and emergencies.
3.	Vegetation Management Our vegetation management programme includes identification, inspection and assessment of vegetation growing near Aurora Energy's network, notification and liaison with customers	RY23-32	\$43.5 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024, and the Frankton VSA, which has a term from 1 April 2022 to

DESCR FUTURI PROJE	PRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE E NETWORK OR EQUIPMENT CONSTRAINT THAT THE CT ADDRESSES)	LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
	and the carrying out of preliminary and physical works.				31 March 2027. The VSA, and one of the FSAs, is with Delta, a related party. Under the VSA and FSAs, this programme of works is contracted exclusively to Delta.
4.	Corrective Maintenance Primarily involves remediating defects, by replacing components or minor assets, or undertaking repairs. Corrective work may be identified during preventive maintenance or fault response. Programmes 4a and 4b below are encompassed within this category of expenditure.	RY23-32	\$29.3 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
4a.	Possum and Cable Guard Retrofit Programme This programme of work encompasses the retrofitting of possum guards and cable guards on the Aurora network.	RY23-26	\$0.8 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.

4.1.2 Capital expenditure projects

In relation to capital expenditure, we have identified our largest programmes of work. These affect the whole of our network, however, we have identified, where relevant, the largest projects that form a part of that programme, which can be easily identified as affecting a specific part of the network. As with table 4.1.1, the value of projects are expressed in nominal terms.

DESCRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE FUTURE NETWORK OR EQUIPMENT CONSTRAINT THAT THE PROJECT ADDRESSES)	Likely Timing of the project	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
Capital expenditure				

DESCI FUTUR PROJE	RIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE E NETWORK OR EQUIPMENT CONSTRAINT THAT THE ECT ADDRESSES)	LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
1.	Pole Replacement This is an ongoing programme of work to replace poles on a condition basis. The replacements involve entire pole assemblies (with crossarms) and may include replacement of pole mounted equipment such as distribution transformers if these are also assessed as being at end of life.	RY23-32	\$164.4 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers, and other Approved Contractors.
2.	Zone Substation Renewals This is a programme of renewal projects that we plan to undertake at specific zone substations due to assets that have been identified as being in poor condition and having reached end-of-life. Items 2a through 2f describe the six most significant of these renewal projects.	RY23-32	\$117.3 million	Specific zone substations located across the network	Currently not indicated for supply by a related party.
2a.	Andersons Bay Substation Rebuild The equipment contained in the Andersons Bay substation is near-end-of-life and requires renewal. The optimum solution is for the substation to be rebuilt on the existing site.	RY23	\$4.6 million	Andersons Bay, Dunedin	Currently not indicated for supply by a related party.
2b.	Mosgiel Transformer Replacement and 33 kV Outdoor-Indoor Conversion The equipment contained in the Mosgiel substation is near-end-of-life and requires renewal. This project involves replacing the power transformers and replacing the 33 kV outdoor switchyard with a new switchroom building to house a new 33 kV switchboard.	RY26-28	\$7.5 million	Mosgiel, Dunedin	Currently not indicated for supply by a related party.
2c.	Green Island Substation Rebuild The equipment contained in the Green Island substation is near-end-of-life and requires renewal.	RY23-24	\$6.2 million	Green Island, Dunedin	Currently not indicated for supply by a related party.

DESCRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE FUTURE NETWORK OR EQUIPMENT CONSTRAINT THAT THE PROJECT ADDRESSES)		LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
	The optimum solution is for the substation to be rebuilt on the existing site.				
2d.	Willowbank Substation Renewal The equipment contained in the Willowbank substation is near-end-of-life and requires renewal. The optimum solution involves the replacement of the 6.6 kV switchboard and the power transformers.	RY24-26	\$5.7 million	Willowbank, Dunedin	Currently not indicated for supply by a related party.
2e.	Alexandra Substation Renewal The equipment contained in the Alexandra substation is near-end-of-life and requires renewal. This project involves re-establishing the 11kV and 33kV switchgear in indoor buildings.	RY23-24	\$4.7 million	Alexandra, Central Otago	Currently not indicated for supply by a related party.
2f.	East Taieri Substation Renewal The equipment contained in the East Taieri substation is near-end-of-life and requires renewal.	RY27-29	\$5.6 million	Mosgiel, Dunedin	Currently not indicated for supply by a related party.
3.	Crossarm Replacement This is an ongoing programme of work to replace crossarms on a condition basis.	RY23-32	\$53.4 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers, and other Approved Contractors.
4.	Distribution Conductor Replacement This is an ongoing programme of work to replace distribution conductor that has reached end-of- life.	RY23-32	\$51.3 million	Total network	This programme of works will likely be provided by a mix of FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024, and competitive tender. One of the FSAs is with Delta, a related party. We expect the work to be allocated

DESCRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE FUTURE NETWORK OR EQUIPMENT CONSTRAINT THAT THE PROJECT ADDRESSES)		LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
					among the three FSA providers, and other Approved Contractors.
5.	Subtransmission Cable Replacements This is a programme involving the renewal of specific subtransmission cables on our Dunedin network that are in poor condition and have reached end-of-life. Items 5a, 5b and 5c below describe three of the most significant projects.	RY23-32	\$40.2 million	Dunedin	Currently not indicated for supply by a related party.
5a.	Willowbank Cable Replacement and Switchboard This project involves the installation of a 33 kV switchboard at the Willowbank Substation and the replacement of the existing Halfway Bush to Willowbank gas filled, PILC, underground, 33 kV cables. It forms a part of our plan to gradually transition to a meshed sub-transmission network in the Dunedin CBD.	RY27-28	\$8.9 million	Willowbank, Dunedin	Currently not indicated for supply by a related party.
5b.	Corstorphine Cable Replacement This project involves the replacement of the existing oil filled, PILC, 33 kV underground cables that run between the South Dunedin GXP and the Corstorphine zone substation.	RY25-26	\$9.5 million	Corstorphine, Dunedin	Currently not indicated for supply by a related party.
5c.	Kaikorai Valley Cable Replacement This project involves the replacement of the existing PILC, 33 kV underground cables that run between the Halfway Bush GXP and the Kaikorai zone substation.	RY23-24	\$6.6 million	Kaikorai Valley, Dunedin	Currently not indicated for supply by a related party.
6.	Low voltage Conductor Replacement This is an ongoing programme of work to replace LV conductor that has reached end-of-life.	RY23-32	\$35.1 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the

DESCRIPTION OF THE PROJECT (INCLUDING ANY POSSIBLE FUTURE NETWORK OR EQUIPMENT CONSTRAINT THAT THE PROJECT ADDRESSES)		LIKELY TIMING OF THE PROJECT	Likely value of the project	LOCATION OF THE PROJECT	CONTRACTUAL STATUS
					three FSA providers, and other Approved Contractors.
7.	Distribution Cable Replacements This is a programme involving the renewal of distribution cables on our Dunedin network that and have reached end-of-life.	RY23-32	\$26.1 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
8.	Ancillary Distribution Sub Replacements This is an ongoing programme of work to replace ancillary distribution substations that have reached end-of-life.	RY23-32	\$21.1 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
9.	Ground Mounted Switchgear Replacements This is an ongoing programme of work to replace ground mounted switchgear that has reached end-of-life.	RY23-32	\$20.0 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.
10.	Pole Mounted Transformer Replacement This is an ongoing programme of work to replace distribution transformers that have reached end-of- life. It includes pole mount to ground mount conversions of large two pole substations, which are not seismically qualified.	RY23-32	\$19.8 million	Total network	This programme of works is covered by three FSAs, each of which have a five year term from 1 April 2019 to 31 March 2024. One of the FSAs is with Delta, a related party. We expect the work to be allocated among the three FSA providers.

4.2 Heatmaps

4.2.1 Dunedin subnetwork





Operational Expenditure:

1 - A Total network

Capital Expenditure:

1 3 - 4 6 - 10 Total network

(23) Andersons Bay substation rebuild

(a) Mosglei transformer replacement and 33 kV outdoor indoor conversion

- (a) Green Island substation rebuild
- 20 Willowbank substation renewal
- 21 East Takeri substation renewal
- (a) Willowbank cable replacement and switchboard
- (iii) Corstorphine cable replacement
- Ratikoral Valley cable replacement

4.2.2 Central Otago subnetwork



Operational Expenditure:

1-4 Total network

Capital Expenditure:

(1) (3-(4) (6-(10) Total network

Alexandra Substation renewal

SCHEDULE 18

Certification for Year-end Disclosures

Clause 2.9.2

We, Stephen Richard Thompson and Janice Evelyn Fredric, being directors of Aurora Energy 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 Aurora Energy 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
 - i. 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.

Rahhm

Stephen Richard Thompson

Janice Evelyn Fredric

29 August 2022

Independent Assurance Report

To the directors of Aurora Energy Limited and to the Commerce Commission on the Disclosure Information for the disclosure year ended 31 March 2022 as required by the Electricity Distribution Information Disclosure Amendment Determination 2012 (Consolidated 9 December 2021)

Aurora Energy Limited (the company) is required to disclose certain information under the Electricity Distribution Information Disclosure Determination 2012 (consolidated 9 December 2021) (the Determination) and to procure an assurance report by an independent auditor in terms of section 2.8.1 of the Determination.

The Auditor-General is the auditor of the company.

The Auditor-General has appointed me, Julian Tan, using the staff and resources of Audit New Zealand, to undertake a reasonable assurance engagement, on his behalf, on whether the information prepared by the company for the disclosure year ended 31 March 2022 (the Disclosure Information) complies, in all material respects, with the Determination.

The Disclosure Information that falls within the scope of the assurance engagement are:

- Schedules 1 to 4, 5a to 5g, 6a and 6b, 7, 10 and 14 (limited to the explanatory notes in boxes 1 to 11) of the Determination.
- Clause 2.3.6 of the Determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated 20 May 2020) (the IM Determination), in respect of the basis for valuation of related party transactions (the Related Party Transaction Information).

This assurance report should be read in conjunction with the Commerce Commission's Information Disclosure exemption, issued to all electricity distribution businesses on 17 May 2021 under clause 2.11 of the Determination. The Commerce Commission granted an exemption from the requirement that the assurance report, in respect of the information in schedule 10 of the Determination, must take into account any issues arising out of the company's recording of SAIDI, SAIFI, and number of interruptions due to successive interruptions.

Opinion

In our opinion, in all material respects:

• as far as appears from an examination, 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, sourced from the company's financial and non-financial systems;
- the Disclosure Information complies, in all material respects, with the Determination; and
- the basis for valuation of related party transactions complies with the Determination and the IM Determination.

Basis for opinion

We conducted our engagement in accordance with the Standard on Assurance Engagements (SAE) 3100 (Revised) *Assurance Engagements on Compliance*, issued by the New Zealand Auditing and Assurance Standards Board. An engagement conducted in accordance with SAE 3100 (Revised) requires that we comply with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised) *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information*, issued by the New Zealand Auditing and Assurance Standards Board.

We have obtained sufficient recorded evidence and explanations that we required to provide a basis for our opinion.

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 compliance engagement, and in forming our opinion. We do not provide a separate opinion on these matters.

Key assurance matter	How our procedures addressed the key assurance matter		
Capital expenditure and assets commissioned into the regulatory asset base (the RAB)	We have obtained an understanding of the compliance requirements relevant to the RAB as set out in the Determination.		
The RAB, as set out in schedule 4, reflects the value of the company's electricity distribution assets. During the disclosure year, the company has carried out a large number of individual network system projects that are either operational (network maintenance) or capital (asset replacement or network growth) in nature. Capital expenditure in the current disclosure year totalled \$72 million and assets commissioned into the RAB amounted to \$93 million, compared to total network operating expenditure of \$20 million. The amount of capital	 The procedures we carried out to satisfy ourselves that the capital expenditure and assets commissioned meet the definition under the Determination, included: assessing the company's capitalisation policy was in line with NZ IAS 16 Property, Plant and Equipment; evaluating the design and implementation of controls over the classification of the network expenditure; testing a sample of capital expenditure to invoices or other supporting information to determine whether the expenditure met the capitalisation criteria in the Determination and capitalised to the appropriate asset category; 		

Key assurance matter	How our procedures addressed the key assurance matter
expenditure is also significant relative to the RAB opening value of \$540 million. Capital expenditure and assets commissioned into the RAB are a key assurance matter due to the significant judgement used by the auditor to assess whether the capital expenditure and assets commissioned into the RAB meets the definition set out in the Determination.	 reconciling the assets commissioned from the regulatory fixed asset register to the additions disclosed in the audited financial statements and investigated any reconciling items;
	 comparing the standard asset lives by asset category to those set out in the IM Determination and verified the spreadsheet formula used to calculate regulatory depreciation expenses is in line with the IM Determination;
	 testing the mathematical accuracy of the revaluation calculation performed by the company by recalculating the revaluation rate set out in the IM Determination using the relevant Consumer Price Index indices taken from Statistics New Zealand's website; and
	• testing a sample of disposals from the RAB that they meet the definition of a disposal in accordance with the IM Determination.
	Having completed these procedures, we have no matters to report.
Valuation of related-party transactions at arms-length The Determination and the IM 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.	We obtained an understanding of the company's approach to identifying and valuing related-party transactions at arm's-length in accordance with the Determination and the IM Determination.
	The procedures we carried out, to satisfy ourselves that related-party transactions are appropriately valued at a value not greater than arm's-length, included:
	 testing the completeness of 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;
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.	 reviewing the relevant policies for approval and negotiation of related-party transactions, and testing compliance with those policies;
This a key assurance matter because it involves considerable judgement by company personnel. In turn, verification of the appropriate assignment of an objective arm's-length valuation to related-party transactions require the exercise of	 reviewing and testing the field services agreement with related parties;
	 benchmarking the charges against quotations from non-related parties;
	 confirming the material accuracy of related party values disclosed, and compliance of their

Key assurance matter	How our procedures addressed the key assurance matter
significant professional judgement by the auditor.	calculation with the Determination and the IM Determination; and
	 confirming related party transactions valued at the cost incurred by the related party to underlying records.
	Having carried out these procedures, we are satisfied that related party transactions are valued at arms-length.
Accuracy of the number and duration of electricity outages The company has a combination of manual and 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.	We obtained an understanding of the company's system to record electricity outages, and their duration. This included a review of the company's definition of interruptions, planned interruptions and major event days. The procedures we carried out to assess the adequacy of the company's methods to identify and record electricity outages and their duration included:
	 performing an assessment of the reliability of the manual and automated processes to record the details of interruptions to supply;
This is a key assurance 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	 obtaining internal and external information on interruptions to supply to gain assurance that interruptions to supply were recorded. Internal and external information sources included works orders for contractors, media reports, and Board minutes;
	• testing a sample of interruptions to supply to source records to conclude on their accuracy of calculation, and the appropriateness of the categorisation of the cause of the interruption and whether it was planned or unplanned, and that the cause of the interruptions is correctly categorised:
thresholds. The Commerce 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 company's recording of SAIDI, SAIFI and number of interruptions due to successive interruptions. We need to ensure that the company meets the	 checked the SAIDI and SAIFI ratios were correctly calculated in accordance with the Determination, and the IM Determination; obtained explanations for all significant variances to
	 torecast; and testing the accuracy of the number of connections to the Electricity Authority's register. With respect to the Exemption, we:
criteria for the Exemption to apply, including that it makes the necessary disclosures so the exclusion to the assurance opinion applies.	 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, were the same for both years.
	Having carried out these procedures, and assessed the likelihood of reported electricity outages and their duration being materially misstated in the Disclosure Information, we have no matters to report.

Directors' responsibilities

The directors of the company are responsible in accordance with the Determination for:

- the preparation of the Disclosure Information; and
- the Related Party Transaction Information.

The directors of the company are also responsible for the identification of risks that may threaten compliance with the schedules and clauses identified above and controls which will mitigate those risks and monitor ongoing compliance.

Auditor's responsibilities

Our responsibilities in terms of clauses 2.8.1(1)(b)(vi) and (vii), 2.8.1(1)(c) and 2.8.1(1)(d) are to express an opinion on whether:

- as far as appears from an examination, the information used in the preparation of the audited Disclosure Information has been properly extracted from the company's accounting and other records, sourced from its financial and non-financial systems;
- as far as appears from an examination, proper records to enable the complete and accurate compilation of the audited Disclosure Information required by the Determination have been kept by the company and, if not, the records not so kept;
- the company complied, in all material respects, with the Determination in preparing the audited Disclosure Information; and
- the company's basis for valuation of related party transactions in the disclosure year has complied, in all material respects, with clause 2.3.6 of the Determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the IM Determination.

To meet these responsibilities, we planned and performed procedures in accordance with SAE 3100 (Revised), to obtain reasonable assurance about whether the company has complied, in all material respects, with the Disclosure Information (which includes the Related Party Transaction Information) required to be audited by the Determination.

An assurance engagement to report on the company's compliance with the Determination involves performing procedures to obtain evidence about the compliance activity and controls implemented to meet the requirements. The procedures selected depend on our judgement, including the identification and assessment of the risks of material non-compliance with the requirements.

Inherent limitations

Because of the inherent limitations of an assurance engagement, together with the internal control structure, it is possible that fraud, error or non-compliance with the Determination may occur and not be detected. A reasonable assurance engagement throughout the disclosure year does not provide assurance on whether compliance with the Determination will continue in the future.

Restricted use

This report has been prepared for use by the directors of the company and the Commerce Commission in accordance with clause 2.8.1(1)(a) of the Determination and is provided solely for the purpose of establishing whether the compliance requirements have been met. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company and the Commerce Commission, or for any other purpose than that for which it was prepared.

Independence and quality control

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 issued by the New Zealand Auditing and Assurance Standards Board; and
- 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, and Audit New Zealand and its employees may deal with the company on normal terms within the ordinary course of trading activities of the company. Other than any dealings on normal terms within the ordinary course of trading activities of the company, this engagement, the assurance engagements on the customised price-quality path annual compliance statement and the annual delivery report, and the annual audit of the company's financial statements and performance information, we have no relationship with or interests in the company.

Lian Tan

Julian Tan Audit New Zealand On behalf of the Auditor-General Dunedin, New Zealand 30 August 2022