

INFORMATION DISCLOSURE PREPARED IN ACCORDANCE WITH ELECTRICITY INFORMATION DISCLOSURE DETERMINATION UNDER PART 4 OF THE COMMERCE ACT 1986

FOR THE YEAR ENDED 31 MARCH 2020

CONTENTS

1.	Intro	oduction	2
2.	Disc	claimer	2
3.	Sch	edules	3
	i.	Schedule 1 – Analytical Ratios	3
	ii.	Schedule 2 – Return on Investment	4-5
	iii.	Schedule 3 – Regulatory Profit	6
	iv.	Schedule 4 – Value of the Regulatory Asset Base (rolled forward)	7-8
	٧.	Schedule 5a – Regulatory Tax Allowance	9-10
	vi.	Schedule 5b – Related Party Transactions	11
	vii.	Schedule 5c – Term Credit Spread Differential allowance	12
	viii.	Schedule 5d – Cost Allocations	13
	ix.	Schedule 5e – Asset Allocations	14
	х.	Schedule 5f – Report Supporting Cost Allocations	15
	xi.	Schedule 5g – Report Supporting Assets Allocations	16
	xii.	Schedule 6a – Capital Expenditure for the Disclosure Year	17-18
	xiii.	Schedule 6b – Operational Expenditure for the Disclosure Year	19
	xiv.	Schedule 7 – Comparison of Forecasts to Actual Expenditure	20
	XV.	Schedule 8 – Billed Quantities and Line Charge Revenue	21-22
	xvi.	Schedule 9a – Asset Register	23
	xvii.	Schedule 9b – Asset Age Profile	24
	xviii.	Schedule 9c – Overhead lines and Underground cables	25
	xix.	Schedule 9d – Embedded Networks	26
	XX.	Schedule 9e – Network Demand	27
	xxi.	Schedule 10 – Network Reliability	28
	xxii.	Schedule 14 – Mandatory Explanatory Notes	29-36
	xxiii.	Schedule 14a – Mandatory Explanatory Notes on Forecast Information	37
	xxiv.	Schedule 15 – Voluntary Explanatory Notes	38
4.	Арр	endix	39-43
5.	Aud	litors' Report	44-48
6.	Dire	ctors' Certificate	49

1. Introduction

These Information Disclosure documents are submitted by Electricity Invercargill Limited pursuant to Part 4 of the Commerce Act 1986 in accordance with:

- □ The Electricity Information Disclosure Determination 2012 (consolidated in 2018), issued 3 April 2018.
- □ The Electricity Distribution Services Input Methodologies Determination 2012 (consolidated 2014), issued 30 March 2015,

2. Information Disclosure Disclaimer

The information disclosed in this Information Disclosure package issued by Electricity Invercargill Limited has been prepared in accordance with the Determination listed above.

The Determination requires the information to be disclosed in the manner it is presented.

The information should not be used for any other purposes than that intended under the Determination.

The financial information presented is for the electricity distribution business as described within the Determination.

Due to rounding and automatic calculations in the spreadsheets there may be minor summing variances.

Year Ended 31 March 2020 2 of 49

3. SCHEDULES

			Company Name	Electi	ricity Invercargil	
			For Year Ended		31 March 202	0
_	CUEDINE 4. ANALYTICAL DATIOS					
_	CHEDULE 1: ANALYTICAL RATIOS					
int dis	is schedule calculates expenditure, revenue and service ratios from the information terpreted with care. The Commerce Commission will publish a summary and analysis sclosed in accordance with this and other schedules, and information disclosed und is information is part of audited disclosure information (as defined in section 1.4 of	s of information disc der the other requirer	losed in accordance nents of the determin	with the ID determination.	nation. This will incl	ude information
7	1(i): Expenditure metrics			Expenditure per		Expenditure per MVA
		Expenditure per		MW maximum		of capacity from EDB-
		GWh energy	Expenditure per	coincident system	Expenditure per	owned distribution
		delivered to ICPs	average no. of ICPs	demand	km circuit length	transformers
8		(\$/GWh)	(\$/ICP)	(\$/MW)	(\$/km)	(\$/MVA)
9	Operational expenditure	20,432	296	81,573	7,815	34,260
10	Network	8,221	119	32,822	3,145	13,785
11 12	Non-network	12,211	177	48,751	4,671	20,475
13	Expenditure on assets	18,782	272	74,987	7,184	31,493
14	Network	18,782	272	74,987	7,184	31,493
15	Non-network	-	-	-	-	-
16						
17	1(ii): Revenue metrics					
		Revenue per GWh				
		energy delivered	Revenue per			
		to ICPs	average no. of ICPs			
18		(\$/GWh)	(\$/ICP)			
19	Total consumer line charge revenue	82,405	1,192			
20 21	Standard consumer line charge revenue	82,405	1,192			
22	Non-standard consumer line charge revenue	_	-			
23	1(iii): Service intensity measures					
24						
25	Demand density	94	Maximum coincide	nt system demand pe	er km of circuit length	(for supply) (kW/km)
26	Volume density	382	Total energy delive	red to ICPs per km of	circuit length (for sup	ply) (MWh/km)
27	Connection point density	26		ICPs per km of circui		
28	Energy intensity	14,464	Total energy delive	red to ICPs per averag	ge number of ICPs (k	Wh/ICP)
29	1(iv): Composition of regulatory income					
30 31	1(iv). Composition of regulatory income		(\$000)	% of revenue		
32	Operational expenditure		5,146	24.87%		
33	Pass-through and recoverable costs excluding financial incentiv	ves and wash-ups	6,829	33.01%		
34	Total depreciation		3,225	15.59%		
35	Total revaluations		2,191	10.59%		
36	Regulatory tax allowance		1,594	7.70%		
37	Regulatory profit/(loss) including financial incentives and wash	ı-ups	6,088	29.42%		
38	Total regulatory income		20,689			
39 40	1(v): Reliability					
41						
41 42	Interruption rate		7.90	Interruptions per 10	00 circuit km	



Year Ended 31 March 2020 3 of 49

	Company Name	Electrici	ty Invercargill Li	mited
			1 March 2020	cu
SC!	For Year Ended	-	T WIGHT ZUZU	
	IEDULE 2: REPORT ON RETURN ON INVESTMENT			
	chedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimate: ased 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, i			
2(iii).		mornia don suppording	uns carcuration mus	i be provided iii
	must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).			
This i	nformation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to t	he assurance report red	quired by section 2.8	
h ref				
7	2(i): Return on Investment	CY-2	CY-1	Current Year CY
8		31 Mar 18	31 Mar 19	31 Mar 20
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned	5.78%	6.29%	6.94%
11	Excluding revenue earned from financial incentives	5.81%	6.15%	6.93%
12 13	Excluding revenue earned from financial incentives and wash-ups	5.73%	6.08%	6.85%
14	Mid point actimate of part tay WACC	5.04%	4.75%	4.27%
15	Mid-point estimate of post tax WACC 25th percentile estimate	4.36%	4.07%	3.59%
16	75th percentile estimate	5.72%	5.43%	4.95%
17	. 2.11 per oction continue	3.7278	3.43/0	7.55%
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	6.37%	6.80%	7.37%
21	Excluding revenue earned from financial incentives	6.40%	6.66%	7.35%
22	Excluding revenue earned from financial incentives and wash-ups	6.32%	6.58%	7.27%
23				
24	WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
25				
26	Mid-point estimate of vanilla WACC	5.60%	5.26%	4.69%
27	25th percentile estimate	4.92%	4.58%	4.01%
28 29	75th percentile estimate	6.29%	5.94%	5.37%
23				
30	2(ii): Information Supporting the ROI		(\$000)	
31				
32	Total opening RAB value	86,605		
33	plus Opening deferred tax	(3,889)		
34	Opening RIV	L	82,716	
35		_		
36	Line charge revenue	L	20,753	
37	-			
38	Expenses cash outflow	11,974		
39	add Assets commissioned	3,587 125		
40	less Asset disposals add Tax payments	1,172		
42	less Other regulated income	(64)		
43	Mid-year net cash outflows	(- 1)	16,672	
44		_		
45	Term credit spread differential allowance		-	
46				
	Total closing RAB value	89,033		
47		0		
48	less Adjustment resulting from asset allocation			
48 49	less Lost and found assets adjustment	_		
48 49 50	less Lost and found assets adjustment plus Closing deferred tax	- (4,311)		
48 49 50 51	less Lost and found assets adjustment	(4,311)	84,722	
48 49 50 51 52	less Lost and found assets adjustment plus Closing deferred tax Closing RIV		84,722	7 2-20
48 49 50 51 52 53	less Lost and found assets adjustment plus Closing deferred tax		84,722	7.37%
48 49 50 51 52 53 54	less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC	_ (4,311)	84,722	
48 49 50 51 52 53 54 55	less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%)	_ (4,311)	84,722	42%
48 49 50 51 52 53 54 55 56	less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%) Cost of debt assumption (%)	- (4,311)	84,722	42% 3.61%
48 49 50 51 52 53 54 55 56	less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%)	- (4,311)	84,722	42%
48 49 50 51 52 53 54 55 56	less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%) Cost of debt assumption (%)	- (4,311)	84,722	42% 3.61%



Year Ended 31 March 2020 4 of 49

61	2(iii): Information Supporting th	ne Monthly ROI					
62 63	Opening RIV						N/A
64	Opening KiV						N/A
65		Line charge revenue	Expenses cash	Assets	Asset	Other regulated	Monthly net cash
66 67	April		outflow	commissioned	disposals	income	outflows _
68	May						_
69	June						-
70	July						-
71	August						-
72	September						-
73	October						-
74	November						-
75	December .						-
76 77	January						-
78	February March						-
79	Total	_	_	_	_	_	
80	15101						
81	Tax payments						N/A
82	.,,						
83	Term credit spread differential allo	wance					N/A
84							
85	Closing RIV						N/A
86							
87							
88	Monthly ROI – comparable to a vanilla	WACC					N/A
89							
90	Monthly ROI – comparable to a post to	ax WACC					N/A
91	2(iv): Year-End ROI Rates for Co	mnarican Burnacas					
92 93	Z(IV). Teal-Lilu NOT Nates for Co	iliparison rui poses					
94	Year-end ROI – comparable to a vanilla	a WACC					7.08%
95							
96	Year-end ROI – comparable to a post t	ax WACC					6.65%
97							
98	* these year-end ROI values are compa	rable to the ROI reported in pre	2012 disclosures by EDBs	and do not represent	the Commission's cui	rrent view on ROI.	
99							
100	2(v): Financial Incentives and W	ash-Ups					
101							1
102	Net recoverable costs allowed und		ve s cheme			_	
103	Purchased assets – avoided transn						
104 105	Energy efficiency and demand ince Quality incentive adjustment	nuve arrowance				15	
105	Other financial incentives					15	
107	Financial incentives						15
108							
109	Impact of financial incentives on ROI						0.01%
110							
111	Input methodology claw-back						
112	CPP application recoverable costs						
113	Catastrophic event allowance						
114	Capex wash-up adjustment					92	
115	Transmission asset wash-up adjus	tment					
116	2013–15 NPV wash-up allowance						
117	Reconsideration event allowance						
118	Other wash-ups						02
119 120	Wash-up costs						92
121	Impact of wash-up costs on ROI						0.08%
	Support of Francisco of No.						0.0370



Year Ended 31 March 2020 5 of 49

	Company Name Electri	icity Invercargill Limited
	For Year Ended	31 March 2020
SC	HEDULE 3: REPORT ON REGULATORY PROFIT	
	schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections a ilatory profit in Schedule 14 (Mandatory Explanatory Notes).	nd provide explanatory comment on their
	information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance rep	port required by section 2.8.
sch rej	f	
7	3(i): Regulatory Profit	(\$000)
8	Income	20.752
9 10	Line charge revenue plus Gains / (losses) on asset disposals	20,753 (123)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	59
12	Total completes income	20,500
13	Total regulatory income	20,689
14 15	Expenses less Operational expenditure	5,146
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	6,829
18 19	Operating surplus / (deficit)	8,715
20		
21	less Total depreciation	3,225
22	plus Total revaluations	2,191
24	F 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
25	Regulatory profit / (loss) before tax	7,681
26 27	less Term credit spread differential allowance	
28		
29	less Regulatory tax allowance	1,594
30 31	Regulatory profit/(loss) including financial incentives and wash-ups	6,088
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35 36	Rates Commerce Act levies	127 41
37	Industry levies	56
38	CPP specified pass through costs	_
39 40	Recoverable costs excluding financial incentives and wash-ups Electricity lines service charge payable to Transpower	6,221
41	Transpower new investment contract charges	383
42	System operator services	
43	Distributed generation allowance Extended reserves allowance	
45	Other recoverable costs excluding financial incentives and wash-ups	
46 47	Pass-through and recoverable costs excluding financial incentives and wash-ups	6,829
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)
49	S(m) mercinental norming meetitive seneme	CY-1 CY
50	W. Janes H. H. and	31 Mar 19 31 Mar 20
51 52	Allowed controllable opex Actual controllable opex	-
53		
54 55	Incremental change in year	
33		Previous years'
		incremental change Previous years' adjusted for
56		Previous years' adjusted for incremental change inflation
57	CY-5 31 Mar 15	-
58 59	CY-4 31 Mar 16 CY-3 31 Mar 17	_
60	CY-2 31 Mar 18	-
61	CY-1 31 Mar 19	_
62 63	Net incremental rolling incentive scheme	
64	Net recoverable costs allowed under incremental rolling incentive scheme	
65	3(iv): Merger and Acquisition Expenditure	
70	t, and the same particular to the same partic	(\$000)
66	Merger and acquisition expenditure	
67	Describe compositors on the honefits of manage and acquisition and the state of the	disclosures in accordance with earlier 2.7
68	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required in Schedule 14 (Mandatory Explanatory Notes)	uisclosures in accordance with section 2.7,
69	3(v): Other Disclosures	
70		(\$000)
71	Self-insurance allowance	



Year Ended 31 March 2020 6 of 49

The part					Company Name	Electric	ity Invercargill Li	nited
Part								
Part	ı	This sc	hedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2					
Page	ı	EDBs m	nust provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (a:	s defined in section 1.4	of the ID determina	tion), and so is subje	ct to the assurance re	port required by
Mathematical Properties Pro	ı							
Mathematical Properties Pro	ľ	٦	4(i): Regulatory Asset Rase Value (Rolled Forward)	PAR	PAR	RAR	PAR	PAR
March Marc		-		31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19	31 Mar 20
Part			Total opening RAB value					
Part Section		11						
Part		13	less Total depreciation			·		
1			plus Total revaluations	435	1,676	882	1,245	2,191
18 18 18 18 18 18 18 18		16	plus Assets commissioned	5,869	4,103	5,907	4,533	3,587
Part Part Information Part			less Asset disposals	36	269	85	126	125
Trade desire glab levels Trade desire glab l			also Lect and found areas adjustment					
		21						
Part			plus Adjustment resulting from asset allocation	\vdash				0
		24 25	Total closing RAB value	77,667	80,292	84,072	86,605	89,033
Part			A(ii): Unallocated Regulatory Asset Rase					
1		27	4(ii). Oilailocated Regulatory Asset base					
The process of the			Total opening RAB value		(\$000)		(\$000)	
Part					1	3 225	Г	3 225
Part		32	plus		,			
As sets acquired from a regulated supplier 1,081				_	١	2,191		2,191
15 15 15 15 15 15 15 15		35	Assets commissioned (other than below)			-		
Part		37	Assets acquired from a related party		3,587		3,587	
Act					l	3,587	L	3,587
				-	102	-	102	
plus Lott and found assets adjustment total closing RAM value **The Turnilocated RAM is the total value of those assets used wholly or portiolly to provide electricity distribution services without only dillowance being made for the allocation of costs to services provided by the supplier that or and electricity distribution services. The ARM value represents the realize of three assets ofter applying this cost ellocation. Neither value includes wards under construction. **The Turnilocated RAM is the total value of those assets used wholly or portiolly to provide electricity distribution services without only dillowance being made for the allocation of costs to services provided by the supplier that or and electricity distribution services. The ARM value of these assets ofter applying this cost ellocation. Neither value includes wards under construction. **The Turnilocated RAM is the total value of those assets used wholly or portiolly to provide electricity distribution services without only distribution services. The ARM value of the eastern of the allocation. Neither repulse includes works under construction **The Turnilocated RAM is the total value of the cost or public distribution services. The ARM value of the allocation. Neither repulse of the allocation. Neither repulse of the allocation of costs to services provided by the supplier that on and electricity distribution services. The ARM value of the allocation. Neither repulsed for the allocation. Neither repul		42	Asset disposals to a related party		23		23	
Act Pulsa Adjustment resulting from asset allocation Image: Adju			Asset disposals		l	125	L	125
plus Adjustment resulting from asset allocation Total closing RAB value *The **Unestlicated RAB** is the total value of those assets used wholly or puriodly to provide electricity distribution services without any ollowance being made for the allocation of costs to services provided by the supplier that one not electricity distribution services. The RAB value represents the value of these assets ofter applying this cost ollocation. Neither value includes works under construction. **The **Unestlicated RAB** is the total value of those assets ofter applying this cost ollocation. Neither value includes works under construction. **The **Unestlicated RAB** is the total value of those assets ofter applying this cost ollocation. Neither value includes works under construction. **Policia Collision of Revaluation Rate and Revaluation of Assets **CPI_1			plus Lost and found assets adjustment		[
Total cloniang RAB value The 'unablicaced RAB i's the total value of those assets used wholy or partially to provide electricity distribution services without only allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction. CPI4		47	plus Adjustment resulting from asset allocation					0
### Action of these assets ofter applying this cost olicotation. Neither value includes works under construction. #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Assets #### Action of Revaluation Rate and Revaluation of Action of Assets and Act			Total closing RAB value		[89,033		89,033
			* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocated the contraction of the	ion of costs to services p	rovided by the suppl	ier that are not electric	city distribution service	s. The RAB value
	ŀ	-	represents the value of these assets after applying this cost allocation. Neither value includes works under construction.					
1.052 1.05								
CP CP CP CP CP CP CP CP			4(iii): Calculation of Revaluation Rate and Revaluation of Assets					
Second S		54						
Second S		56						
South Sout					Unallocate	ed RAB *	RAE	
tes Opening value of fully depreciated, disposed and lost assets 7 Total opening RAB value subject to revaluation 8 6,463 8 6,463 8 6,463 8 6,463 8 6,463 8 7 Total opening RAB value subject to revaluation 8 6,613 8 6,463 8 7 Total opening RAB value subject to revaluation 8 8 8,463 8 8 8,463 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		59	Tabel service PAR relice	Г		(\$000)		(\$000)
Total opening RAB value subject to revaluation 86,463 86,463 2,191 2		61						
Total revaluations 2,191 2,19				Г	86,463	Г	86,463	
4(iv): Roll Forward of Works Under Construction Construction		64	Total revaluations			2,191	L	2,191
			Aliah Ball Forward of Works Under Construction					
88 Works under construction—preceding disclosure year 1,003 1,003 69		66	4(1V). NOIL FOLWALD OF WORKS UNDER CONSTRUCTION					
69 plus Capital expenditure 4,530 4,589 70 less Assets commissioned 3,587 3,587 71 plus Adjustment resulting from asset allocation 22 Works under construction - current disclosure year 2,105 2,105					Unallocated works	under construction	Allocated works un	der construction
70 less Assets commissioned 3,587 3,587 71 plus Adjustment resulting from asset allocation 2,105 72 Works under construction - current disclosure year 2,105				Г		1,003	4,689	1,003
72 Works under construction - current disclosure year 2,105 2,105 73		70	less Assets commissioned					
		72			[2,105		2,105
		73 74	Highest rate of capitalised finance applied				Г	



Year Ended 31 March 2020 7 of 49

ELECTRICITY INVERCARGILL LIMITED

INFORMATION DISCLOSURE

76	4(v): Regulatory Depreciation										
77								Unallocat	ed RAB *	R	AB
78								(\$000)	(\$000)	(\$000)	(\$000)
79	Depreciation - standard							3,225		3,225	
80	Depreciation - no standard life assets										
81	Depreciation - modified life assets										
82	Depreciation - alternative depreciation	on in accordance with CPP									
83	Total depreciation								3,225		3,225
84											
85	4(vi): Disclosure of Changes to Dep	reciation Profiles						/énnn	unless otherwise spe	reifice)	
85	4(vi). Disclosure of changes to Dep	rectation romes						(5000	uniess otherwise spe	diledy	
										Closing RAB value	
									Depreciation	under 'non-	Closing RAB value
									charge for the	standard'	under 'standard'
86	Asset or assets with changes to depre	ciation*			Reas	on for non-standard	depreciation (text e	ntry)	period (RAB)	depreciation	depreciation
87											
88											
89											
90											
91											
92 93											
94											
95	* include additional rows if needed										
96	4(vii): Disclosure by Asset Category	1									
97						(\$000 unless oth					
							Distribution				
98		Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	cables	substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
99	Total opening RAB value	54		16.615	2.081	42,473	9 986	5,205	3.269		86,605
100	less Total depreciation	2		561	96	1.489	422	265	184		3,225
101	plus Total revaluations	1	176	421	52	1,075	252	130	83		2,191
102	plus Assets commissioned	_	_	1,156	79	1,274	646	297	136		3,587
103	less Asset disposals	_	_	12	18	_	49	46	-		125
104	plus Lost and found assets adjustment						-				_
105	plus Adjustment resulting from asset alloc	ation									-
106	plus Asset category transfers										-
107	Total closing RAB value	54	6,891	17,619	2,098	43,333	10,413	5,321	3,303	_	89,033
108											
109	Asset Life										1
110	Weighted average remaining asset lif			34	30	35	26	23	19		(years)
111	Weighted average expected total asse	t life 47	57	53	59	58	45	39	38		(years)



Year Ended 31 March 2020 8 of 49

		Company Name	Electricity Invercargill Limited
		For Year Ended	31 March 2020
sc	TIEDITIE E	a: REPORT ON REGULATORY TAX ALLOWANCE	02 11101 011 2020
		es information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory p	rofit/loss in Schedule 3 (regulatory profit)
EDB	is must provide e	xplanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes	5).
This	information is	part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the ass	surance report required by section 2.8.
sch re	rf		r
7	5a(i): Re	gulatory Tax Allowance	(\$000)
8		Regulatory profit / (loss) before tax	7,681
9		regulatory provinty (1999) sector c tax	7,001
10	plus	Income not included in regulatory profit / (loss) before tax but taxable	*
11		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	*
12		Amortisation of initial differences in asset values	1,264
13		Amortisation of revaluations	315
14 15			1,578
16		Total revaluations	2,191
17		Income included in regulatory profit / (loss) before tax but not taxable	*
18		Discretionary discounts and customer rebates	
19		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	144 *
20		Notional deductible interest	1,232
21			3,568
22			
23		Regulatory taxable income	5,692
24 25		Utilised tax losses	
26		Regulatory net taxable income	5,692
27		negulatory net taxable income	5,032
28		Corporate tax rate (%)	28%
29	1	Regulatory tax allowance	1,594
30			
31	* Workin	gs to be provided in Schedule 14	
32	5a(ii): D	isclosure of Permanent Differences	
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedul	e 5a(i).
34	5a(iii): A	mortisation of Initial Difference in Asset Values	(\$000)
35			
36		Opening unamortised initial differences in asset values	22,743
37	less	Amortisation of initial differences in asset values	1,264
38	plus	Adjustment for unamortised initial differences in assets acquired	_
39	less	Adjustment for unamortised initial differences in assets disposed	95
40 41		Closing unamortised initial differences in asset values	21,384
41 42 43		Opening weighted average remaining useful life of relevant assets (years)	18



Year Ended 31 March 2020 9 of 49

44	5a(iv): A	Amortisation of Revaluations		(\$000)
45 46		Opening sum of RAB values without revaluations	78,828	
47		opening sum of the foldes manual restricted address	70,020	
48		Adjusted depreciation	2,910	
49		Total depreciation	3,225	
50		Amortisation of revaluations		315
51				
52	5a(v): R	econciliation of Tax Losses		(\$000)
53				
54		Opening tax losses	_	
55	plus	Current period tax losses	_	
56	less	Utilised tax losses	-	
57		Closing tax losses	ļ	-
58	5a(vi): (Calculation of Deferred Tax Balance		(\$000)
59				
60		Opening deferred tax	(3,889)	
61				
62	plus	Tax effect of adjusted depreciation	815	
63				
64	less	Tax effect of tax depreciation	923	
65 66	plus	Tax effect of other temporary differences*	22	
67	pius	Tax effect of other temporary differences	22	
68	less	Tax effect of amortisation of initial differences in asset values	354	
69	1000	Law Circle of all of addition of initial afficiences in assect fordes	55.	
70	plus	Deferred tax balance relating to assets acquired in the disclosure year	_	
71	, , ,			
72	less	Deferred tax balance relating to assets disposed in the disclosure year	(18)	
73		_		
74	plus	Deferred tax cost allocation adjustment	(0)	
75			_	
76		Closing deferred tax		(4,311)
77	F=/:::\	Disclosure of Townson, Difference		
78	5a(VII):	Disclosure of Temporary Differences		
79		In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax 6	effect of other tempore	ary differences).
80				
81	5a(viii):	Regulatory Tax Asset Base Roll-Forward		
82				(\$000)
83		Opening sum of regulatory tax asset values	42,645	
84	less	Tax depreciation	3,297	
85	plus	Regulatory tax asset value of assets commissioned	3,657	
86	less	Regulatory tax asset value of asset disposals	29	
87	plus	Lost and found assets adjustment	-	
88	plus	Adjustment resulting from asset allocation	-	
89	plus	Other adjustments to the RAB tax value	-	42.076
90		Closing sum of regulatory tax asset values		42,976



Year Ended 31 March 2020 10 of 49

		Company Name	Electricity II	nvercargill Limite	d
		For Year Ended		1arch 2020	
SC	HEDULE 5b: REPORT ON RELATED PARTY TR				
This	schedule provides information on the valuation of related party tran information is part of audited disclosure information (as defined in	sactions, in accordance with clause			by clause 2.8.
7	5b(i): Summary—Related Party Transactions			(\$000)	(\$000)
8	Total regulatory income			(\$666)	(\$000)
9	Total regulatory income			L	
10	Market value of asset disposals			[23
11	·				
12	Service interruptions and emergencies			597	
13	Vegetation management			10	
14	Routine and corrective maintenance and inspection	1		1,358	
15	Asset replacement and renewal (opex)			106	
16	Network opex				2,070
17 18	Business support System operations and network support			1,544 299	
19	Operational expenditure			255	3,914
20	Consumer connection			519	3,511
21	System growth			-	
22	Asset replacement and renewal (capex)			3,955	
23	Asset relocations			-	
24	Quality of supply			71	
25	Legislative and regulatory			-	
26	Other reliability, safety and environment			186	
27	Expenditure on non-network assets				
28 29	Expenditure on assets			•	4,730
30	Cost of financing Value of capital contributions				
31	Value of vested assets			•	
32	Capital Expenditure				4,730
33	Total expenditure				8,644
34				г	
35	Other related party transactions			L	
<i>36</i>	5b(iii): Total Opex and Capex Related Party Tra Normal Name of related party	ansactions ature of opex or capex service provided			Total value of transactions (\$000)
38		utine and corrective maintenance a	nd inspection		1,358
39	PowerNet Limited As	set replacement and renewal (opex)			106
40	PowerNet Limited Se	rvice interruptions and emergencies	i		597
41		getation management			10
42		siness Support			1,389
43		siness Support			155
44		nsumer connection	Δ.		519
45		set replacement and renewal (capes			3,955
47 48		her reliability, safety and environm ality of supply	CIT		186 71
49		stem operations and network suppo	ort		299
50	9,	The second secon			
51					
52					
53	Total value of related party transactions				8,644
54 55	* include additional rows if needed				



Year Ended 31 March 2020 11 of 49

Thi	s schedule is s information	5c: REPORT ON TERM CREDIT SPREAD DIFFERENT only to be completed if, as at the date of the most recently published financial s is part of audited disclosure information (as defined in section 1.4 of the ID de	tatements, the weighte	ed average original te			bt and non-qualifying	Company Name For Year Ended debt) is greater than	31 Marc	
7 8		Qualifying Debt (may be Commission only)								
9		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										
16		* include additional rows if needed		•				-	_	-
17 18 19		Attribution of Term Credit Spread Differential								
20		Gross term credit spread differential			-					
21		Total of our control of the			1					
22 23		Total book value of interest bearing debt Leverage		42%						
24		Average opening and closing RAB values		42/0						
25	1	Attribution Rate (%)			-					
26 27	1	Ferm credit spread differential allowance			-					



Year Ended 31 March 2020 12 of 49

Column C				Company Name For Year Ended		Invercargill I	imited
Adj Contracting Cost Afficiations				_			
5- 1-1	This This	schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocatio information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assura	n in Schedule 14 (Mandat ance report required by se	ory Explanatory Notes), in ction 2.8.	cluding on the impact o	f any reclassifica	tions.
Section	sch ref	f .					
Section	7	5d(i): Operating Cost Allocations					
Secretarian programma and emerogenicies				Value allocate	d (\$000s)		
Service interruptions of engroptics Service interruptions of engroptic interview i							
Oncest, primitability Company		Service interruptions and emergencies	deduction	distribution services d	istribution services	Total	increase (\$000s)
Material content of the properties of the content of the properties of the content of the properties		Directly attributable		597			
1				597			
Marticle for the production of the production				10			
Recovery ambituation of the content of the conten	16	Not directly attributable				-	
10 1.				10			
1	19	Directly attributable		1,358			
10				1,358			
Martinication of control production of the				100			
System operations and network support				106		-	
1				106			
Table strokedes la vaguides avoir 1970	27	Directly attributable		1,029	,		
Builsess support				1 029			
Material part include 10	30	Business support					
Age Content					19	309	
Operating costs addirectly attributable Comparing costs and investigation Cost		Total attributable to regulated service		2,046			· ·
Solidia Soli	35						
Section Pass through and recoverable costs (5000)					19	309	-
Pass through and recoverable costs Pass through costs Cost a recoverable costs Recover	38						
Pass through cost Contently arthousable Cont	39	5d(ii): Other Cost Allocations					
	40	Pass through and recoverable costs		(\$000)			
Not directly attributable Recoverable cots Recoverable cots Directly attributable Otional attributable to regulated service Otional attributable to regulated service Solidii): Changes in Cost Allocations*† Cost category Cos				224			
Recoverable costs Directly attributable Directly attributable Total attributable to regulated service Difference Cost category New allocator or line items Radionale for change Cost category Co	43	Not directly attributable		_			
Directly attributable to regulated service 50				224			
	46	Directly attributable		6,604			
Solitii): Change in cost allocations* †				6,604			
Section Sect	49						
Change in cost allocation Created Service Cost category Cost category Change in cost allocator or line items Created Service Cost category Cos		5d(iii): Changes in Cost Allocations* †			(6000)		
Original allocator or line items	52	Change in cost allocation 1		_		rrent Year (CY)	1
New allocator or line items					-		
Rationale for change Rationale for change Cost category Googling allocator or line items Rationale for change Rationale for change Cost category Cost	55				-	-	
	57	Rationale for change					
Change in cost allocation 2 CV:							
Cost category Original allocator or line items Original allocator or line items Rationale for change Cost category Original allocator or line items Original allocation Original al	60	Characia and allowing				want Va (6)	
New allocator or line items	62	Cost category				rent rear (CY)	
66 Rationale for change					_		
67 Cost category Conginal allocation or Inleitems CY1 Current Year (Y) Current	65						1
Contact Cont	67	nationale for change					
Canage in cost allocation 3 Crient Year (CY) Current Year (CY)					(\$000)		
72 Original allocator or line items New allocation Difference - Differ	70					rrent Year (CY)	1
74 Rationale for change 75 Rationale for change 76 reference of the second of the seco	72	Original allocator or line items		New allocation	_		
75 Rationale for change 76 77 78 ** a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.		New allocator or line items		Difference	-	-	
77 78 * a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.	75	Rationale for change					
	77						
		* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in the findude additional rows if needed	an allocator metric is not a	change in allocator or com	ponent.		



Year Ended 31 March 2020 13 of 49

			Company Name For Year Ended		icity Invercargill Limited 31 March 2020
s s Bs	HEDULE 5e: REPORT ON ASSET ALLOCA schedule requires information on the allocation of asset val must provide explanatory comment on their cost allocation	ues. This information supports the calc in Schedule 14 (Mandatory Explanator	y Notes), including on the impact of any cha	nges in asset allocations.	This information is part of audited disclo
	mation (as defined in section 1.4 of the ID determination), a	nd so is subject to the assurance report	required by section 2.8.		
ef.	5e(i): Regulated Service Asset Values				
				Value allocated (\$000s)	
				Electricity distribution services	
	Subtransmission lines				
	Directly attributable Not directly attributable			54	
	Total attributable to regulated service			54	
	Subtransmission cables Directly attributable			6,891	
	Not directly attributable			5,001	
	Total attributable to regulated service Zone substations			6,891	
	Directly attributable			17,619	
	Not directly attributable Total attributable to regulated service			17,619	
	Distribution and LV lines			2.555	
	Directly attributable Not directly attributable			2,098	
	Total attributable to regulated service			2,098	J
	Distribution and LV cables Directly attributable			43,333	
	Not directly attributable Total attributable to regulated service			43,333	
	Distribution substations and transform	ers		43,333	
	Directly attributable			10,413	
	Not directly attributable Total attributable to regulated service			10,413	
	Distribution switchgear			5.004	l
	Directly attributable Not directly attributable			5,321	
	Total attributable to regulated service			5,321	
	Other network assets Directly attributable			3,303	
	Not directly attributable Total attributable to regulated service			3,303	
	Non-network assets			3,303	
	Directly attributable Not directly attributable				
	Total attributable to regulated service			-	
	Regulated service asset value directly attributable	e		89,033	
	Regulated service asset value not directly attribute	table		89,033	
	Total closing RAB value			89,033	
	5e(ii): Changes in Asset Allocations* †				(\$000)
	Change in asset value allocation 1 Asset category			Original allocation	CY-1 Current Year (C
	Original allocator or line items			New allocation	
	New allocator or line items			Difference	-
	Rationale for change				
					(4000)
	Change in asset value allocation 2				(\$000) CY-1 Current Year (C
	Asset category Original allocator or line items			Original allocation New allocation	
	New allocator or line items			Difference	-
	Rationale for change				
					(\$000)
	Change in asset value allocation 3			Original . "	CY-1 Current Year (C
	Asset category Original allocator or line items			Original allocation New allocation	
	New allocator or line items			Difference	-
	Rationale for change				



Year Ended 31 March 2020 14 of 49

								ompany Name		ity Invercargill I 31 March 2020	
DITTE	5f: REPORT SUPPORTING COST ALLOCATI	ONS					Fi	or Year Ended		31 Warch 2020	
	quires additional detail on the asset allocation methodology appli		t are not directly attr	ibutable to support t	he information provi	ided in Schedule 5d (Cost allocations) This so	chedule is not rea	uired to be publicly	disclosed but must	he disclosed
sion.						idea iii seriedaie sa (costunocadons). Ilias se	circulate 13 mot req	uncu to be publicly	arscrosco, out must	DC 013C103C0
rmation	n is part of audited disclosure information (as defined in section 1	4 of the ID determination), and so	o is subject to the as	surance report requir	ed by section 2.8.						
					Allocator	Metric (%)		Value alloca	ted (\$000)		
					Electricity	Non-electricity		Electricity	Non-electricity		OVABAA al
		Allocation			distribution	distribution	Arm's length	distribution	distribution		increa
L	Line Item*	methodology type	Cost allocator	Allocator type	services	services	deduction	services	services	Total	(\$00)
Servi	ice interruptions and emergencies										
-											
-											
L											
	t directly attributable										
vege	etation management			1							
-			1	 		l					
ŀ				 							
-											
Not	et directly attributable	•					-	-			
	tine and corrective maintenance and inspection										
Not	t directly attributable						-	-	-		
Asset	t replacement and renewal										
L											
L											
-											
L						ļ					
Not	t directly attributable						1		1		
Cuete	em operations and network support										
Syste	em operations and network support			l e							
l											
Not	t directly attributable						-	-			
Busin	ness support										
	Administration Expenses	ABAA	Revenue	Proxy	93.83%	6.17%		290	19	309	
L											
-										-	
L											
Not	t directly attributable						-	290	19	309	
0	erating costs not directly attributable							290	19	309	
Opi	course and an early attributable							250		303	
Pass	through and recoverable costs										
Pass	s through costs										
				1							
			-	1							
L											
	t directly attributable							-	-		
Rec	overable costs										
				1							
-			-	-							
				 			 				
											1
L	at directly attributable										



Year Ended 31 March 2020 15 of 49

									Company Name	Electri	city Invercargill	
SCH	EDITIE	5g: REPORT SUPPORTING ASSET ALLOCATIONS							For Year Ended		31 March 2020)
This s	chedule re	quires additional detail on the asset allocation methodology applied in alloca	ting asset values that	are not directly attri	butable, to support t	he information provi	ded in Schedule Se (R	eport on Asset Alloca	itions). This schedule	is not required to be	e publicly disclosed	, but must be disclose
to the	Commissi nformation	on. r is part of audited disclosure information (as defined in section 1.4 of the ID d	etermination), and so	is subject to the ass	urance report require	ed by section 2.8.						
ch ref												
7 8												
9							Metric (%)		Value alloca		1	-
			Allocation			Electricity distribution	Non-electricity distribution	Arm's length	Electricity distribution	Non-electricity distribution		OVABAA allocation
10 11	ch.	Line Item*	methodology type	Allocator	Allocator type	services	services	deduction	services	services	Total	increase (\$000)
12	Subi	ransmission lines										
13 14												
15												
16		ot directly attributable						-	-	-		-
17 18	Subt	ransmission cables	T									
19 20												
21												
22		ot directly attributable							-	-		-
23 24	Zone	e substations										
25 26												-
27												
28 29		ot directly attributable						-	-	-	<u> </u>	-
30 31	Disti	ibution and LV lines										
31 32												
33												
34 35		ot directly attributable ibution and LV cables						-	-			-
36	Disti	ibition and Ev capies										
37 38												
39												
40 41	N	ot directly attributable						-	-	-		1 1
42	Dist	ibution substations and transformers									1	
43 44 45												
45 46												
47	N	ot directly attributable	•			-			-			
48 49	Diete	ibution switchgear										
50 51	2.50											
51 52												
52 53 54		ot directly attributable										-
55		or network assets										1 1
56												-
57 58												
59 60		ot directly attributable										-
61		network assets										1
62												
63 64												
65 66		ot directly attributable										
67												
68 69		egulated service asset value not directly attributable ude additional rows if needed							-	-		-



Year Ended 31 March 2020 16 of 49

Electricity Invercargill Limited Company Name 31 March 2020 For Year Ended SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 6a(i): Expenditure on Assets (\$000) (\$000) Consumer connection 519 System growth Asset replacement and renewal 10 11 Asset relocations 12 Reliability, safety and environment: 13 Quality of supply 14 Legislative and regulatory 15 Other reliability, safety and environment 16 Total reliability, safety and environment 257 17 Expenditure on network assets 4.730 18 Expenditure on non-network assets 19 4.730 20 **Expenditure on assets** 21 plus Cost of financing 22 Value of capital contributions 23 Value of vested assets 24 25 Capital expenditure 4,689 6a(ii): Subcomponents of Expenditure on Assets (where known) 26 (\$000) 27 Energy efficiency and demand side management, reduction of energy losses 28 Overhead to underground conversion 29 Research and development 30 6a(iii): Consumer Connection 31 Consumer types defined by EDB* (\$000) 32 Customer Connections < 20 kVA 33 Customer Connections 21 - 99 kVA 34 Customer Connections > 100 kVA New Subdivisions 35 36 include additional rows if needed 37 519 38 39 Consumer connection expenditure 40 Capital contributions funding consumer connection expenditure 41 41 478 Consumer connection less capital contributions 6a(iv): System Growth and Asset Replacement and Renewal Asset Replacement 42 System Growth 44 (\$000) (\$000) 45 Subtransmission 46 Zone substations 2,307 47 Distribution and LV lines 48 Distribution and LV cables 248 Distribution substations and transformers 1,099 50 Distribution switchgear 51 52 System growth and asset replacement and renewal expenditure 3,955 53 Capital contributions funding system growth and asset replacement and renewal 54 System growth and asset replacement and renewal less capital contributions 55 6a(v): Asset Relocations 57 Project or programme (\$000) (\$000) 58 59 60 61 62 63 * include additional rows if needed 64 All other projects or programmes - asset relocations 65 Asset relocations expenditure 66 Capital contributions funding asset relocations Asset relocations less capital contributions



Year Ended 31 March 2020 17 of 49

68				
69	6a(vi): 0	quality of Supply		
70	ou(vi). Q		(\$000)	(\$000)
71		Project or programme* 20350 - Network Automation Projects	71	(3000)
72		, , , , , , , , , , , , , , , , , , ,	_	
73				
74				
75 76		* include additional rows if needed		
77		All other projects programmes - quality of supply	_	
78	Q	uality of supply expenditure		71
79	less	Capital contributions funding quality of supply	_	
80	Q	uality of supply less capital contributions		71
81	6a(vii): L	egislative 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 91	less	egislative and regulatory expenditure Capital contributions funding legislative and regulatory	_	-
92		egislative and regulatory less capital contributions		_
			·	
93	6a(viii):	Other Reliability, Safety and Environment	44	
94 95		Project or programme* 20450 - Earth Upgrades - City	(\$000)	(\$000)
96		20458 - Pillar Box Lid Upgrade	184	
97				
98				
99		*:		
100 101		* include additional rows if needed All other projects or programmes - other reliability, safety and environment	_	
102	0	ther reliability, safety and environment expenditure		186
103	less	Capital contributions funding other reliability, safety and environment	_	
104	O	ther reliability, safety and environment less capital contributions		186
105				
106	6a(ix): N	on-Network Assets		
107	Rot	utine expenditure		
108 109		Project or programme*	(\$000)	(\$000)
110				
111				
112				
113		* include additional rows if needed		
114 115		All other projects or programmes - routine expenditure		
116	Ro	outine expenditure		_
117	Δtv	pical expenditure		·
117	Aty	Project or programme*	(\$000)	(\$000)
119				
120				
121				
122 123				
124		* include additional rows if needed		
125		All other projects or programmes - atypical expenditure		
126	At	typical expenditure		-
127 128	E.	vnenditure on non-network assets		
120	EX	spenditure on non-network assets		



Year Ended 31 March 2020 18 of 49

Company Name Electricity Invercargill Limited 31 March 2020 For Year Ended SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR This schedule requires a breakdown of operational expenditure incurred in the disclosure year. EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. 6b(i): Operational Expenditure (\$000) (\$000) Service interruptions and emergencies Vegetation management Routine and corrective maintenance and inspection Asset replacement and renewal Network opex 2,070 13 System operations and network support 1,029 Business support 15 3,075 Non-network opex 16 5,146 6b(ii): Subcomponents of Operational Expenditure (where known) Energy efficiency and demand side management, reduction of energy losses Direct billing* Research and development 22 Insurance * Direct billing expenditure by suppliers that directly bill the majority of their consumers



Year Ended 31 March 2020 19 of 49

Company Name **Electricity Invercargill Limited** 31 March 2020 For Year Ended

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

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

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

7	7(i): Revenue	Target (\$000) 1	Actual (\$000)	% variance
8	Line charge revenue	20,674	20,753	0%
	.		.,	
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection	419	519	
1		419	519	24%
2	System growth Asset replacement and renewal	5,123	3,955	(23%
3	Asset relocations	5,125	5,955	(100%
<i>3</i>	Reliability, safety and environment:	О		(1007
5	Quality of supply	104	71	(32%
6	Legislative and regulatory	104	-	(327
7	Other reliability, safety and environment	224	186	(17%
8	Total reliability, safety and environment	328	257	(22%
9	Expenditure on network assets	5,876	4,730	(20%
0	Expenditure on non-network assets	3,010	-	- (20)
1	Expenditure on assets	5,876	4,730	(20%
		-/	,	,
2	7(iii): Operational Expenditure			
3	Service interruptions and emergencies	488	597	229
4	Vegetation management	2	10	3789
5	Routine and corrective maintenance and inspection	1,044	1,358	309
6	Asset replacement and renewal	211	106	(50%
7	Network opex	1,745	2,070	19%
8	System operations and network support	1,177	1,029	(139
9	Business support	2,139	2,046	(4%
0	Non-network opex	3,316	3,075	(7%
1	Operational expenditure	5,061	5,146	29
	7/1 \ C \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
2	7(iv): Subcomponents of Expenditure on Assets (where known)		1	
3	Energy efficiency and demand side management, reduction of energy losses	_	-	_
4	Overhead to underground conversion	_	-	
5	Research and development	-	-	
6				
7	7(v): Subcomponents of Operational Expenditure (where known)			
8	Energy efficiency and demand side management, reduction of energy losses	125	125	_
9	Direct billing	_	-	_
0	Research and development	_	_	_
1	Insurance	277	135	(519

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the

disclosure year (the second to last disclosure of Schedules 11a and 11b)



Year Ended 31 March 2020 20 of 49

DULE	8: REPORT ON BILLED QU	JANTITIES AND LINE C	HARGE REVENUES						Network / Su	Company Name For Year Ended b-Network Name		city Invercargill I 31 March 2020	
	quires the billed quantities and associates. Billed Quantities by Price C		ce category code used by the EDB in i	ts pricing schedules. Informa	ation is also required on the	mber of ICPs that are included in each consumer group or price category code, and	the energy delivered	to these ICPs.					
							Billed quantities by	price component					
						Price component	Variable day energy sales	Variable day energy purchases					
	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.)	kWh	KWh					Add extro for addition quantitie compo
		Residential	Standard	6,452	40,721			32,025,106					nece.
	Low user Domestic	Residential	Standard	8,853	40,721 87,566			71,465,702					
	Non-Domestic	Commerical	Standard	1,932	49,365			40,263,506					
	Individual non half hour	Commerical	Standard	50				6,045,665					
	Individual half hour	Commerical	Standard	124	66,776		48,003,913						
	Add extra rows for additional const	imer groups or price category codes o	is necessary					1					,
	.,		Standard consumer totals	17,411	251,841		48,003,913	149,799,978	_	-	_	-	1
			Non-standard consumer totals Total for all consumers	17,411	- 251,841		48,003,913	149,799,978	-	-	-	-	
			Total for all consumers	17,411	251,041		48,005,915	143,/33,376			_		1



Year Ended 31 March 2020 21 of 49

								Price component	Variable day energy sales	Variable day energy purchases	nponent				
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, \$ per kWh, etc.)	kWh	KWh					Add ex for add charge price co
Low user	Residential	Standard	\$3,968			\$2,801	\$1,167		\$255	\$3,713	1	1	1	1	ne
Domestic	Residential	Standard	\$8,387			\$5,920	\$2,467		\$3,046	\$5,341					
Non-Domestic	Commerical	Standard	\$4,967			\$3,520			\$1,959	\$3,009					1
Individual non half hour	Commerical	Standard	\$515			\$325			\$64						1
Individual half hour	Commerical	Standard	\$2,916			\$1,596	\$1,320		\$1,466	\$1,449					
		[Select one]	-					'							
		[Select one]	-					•							
		[Select one]	-					,							
		[Select one]	-												
		[Select one]	-												
Add extra rows for additional consu	imer groups or price category codes o	as necessary			-										4
		Standard consumer totals		-		\$14,149	\$6,604		\$6,789	\$13,964	-	-	-	-	4
		Non-standard consumer totals		-	ļ	_	-		-	-	-	-	-	-	4
		Total for all consumers	\$20,753	-]	\$14,149	\$6,604		\$6,789	\$13,964	_	_	-	-	1



Year Ended 31 March 2020 22 of 49

					Company Name		ity Invercargill L 31 March 2020	imited
			_	atural (C	For Year Ended		31 Walti 2020	
_			۸	etwork / Su	b-network Name			
		a: ASSET REGISTER es a summary of the quantity of ass	ets that make up the network, by asset category and asset class. All units I	elating to cab	ole and line assets, th	at are expressed in	km, refer to circuit le	engths.
	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accura (1–4)
	All	Overhead Line	Concrete poles / steel structure	No.	721	748	27	3
	All	Overhead Line	Wood poles	No.	225	218	(7)	3
	All	Overhead Line	Other pole types	No.	_	_	-	N/A
	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	1	1	-	4
	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	_	_	-	N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	14	14	-	4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	12	12	0	4
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	_	_	_	N/A
	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	_	_	-	N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	_	_	-	N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	_	-	N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	_	_	_	N/A
	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	_	_	_	N/A
	HV	Subtransmission Cable	Subtransmission submarine cable	km	_	_	-	N/A
	HV	Zone substation Buildings	Zone substations up to 66kV	No.	5	5	-	4
	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	_	-	N/A
	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	_	-	N/A
	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	_	-	N/A
	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	2	2	-	4
	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	16	14	(2)	4
	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	5	5	-	4
	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	2	1	(1)	4
	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	50	48	(2)	4
	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	_	_	-	N/A
	HV	Zone Substation Transformer	Zone Substation Transformers	No.	6	6	-	4
	HV	Distribution Line	Distribution OH Open Wire Conductor	km	23	23	0	3
	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
	HV	Distribution Line	SWER conductor	km	-	_	-	N/A
	HV	Distribution Cable	Distribution UG XLPE or PVC	km	54	59	4	3
	HV	Distribution Cable	Distribution UG PILC	km	99	97	(2)	3
	HV	Distribution Cable	Distribution Submarine Cable	km	_	_	-	N/A
	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	2	2	_	4
	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	61	59	(2)	4
	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	50	48	(2)	3
	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	_	_	-	N/A
	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	456	447	(9)	4
	HV	Distribution Transformer	Pole Mounted Transformer	No.	10	10	-	4
	HV	Distribution Transformer	Ground Mounted Transformer	No.	429	415	(14)	4
	HV	Distribution Transformer	Voltage regulators	No.	_	_		N/A
	HV	Distribution Substations	Ground Mounted Substation Housing	No.	43	43	-	3
	LV	LV Line	LV OH Conductor	km	30	30	0	3
	LV	LV Cable	LV UG Cable	km	423	422	(1)	3
	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	167	168	1	3
	LV	Connections	OH/UG consumer service connections	No.	17,840	17,814	(26)	3
	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	167	168	1	4
	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	4
	All	Capacitor Banks	Capacitors including controls	No	_		-	N/A
	All	Load Control	Centralised plant	Lot	1	1	-	4
	All	Load Control	Relays	No	l I			N/A



Year Ended 31 March 2020 23 of 49

INFORMATION DISCLOSURE

																											F	ompany N or Year Er	nded						31	L March	2020					
																										Netwo	rk / Sub-n	network N	lame													
	9b: ASSET AGE PROFILE																																									
ulereq	juires a summary of the age profile (base	d on year of installation) of the assets that make up the network, by asse	t category and	d asset cla	ass. All un	its relatio	ng to cable	and line as	sets, that	are expres	sed in kn	n, refer to	circuit len	gths.																												
		31 March 2020																																								
	Disclosure Year (year ended)	31 March 2020										Numi	ser ot asset	ts at disclo	sure year e	nd by insta	liation dati																						No. with	n Items	at No.	with
					1940	1950				80 1	1990																			_						1	1	/	age	end of y		
Voltage NI	Asset category Overhead Line	Asset class Concrete poles / steel structure	Units pre	e-1940	-1949	-1959	-196	9 -197	9 -19 د اء	989 -	1999	2000	2001	2002	2003	201	4 20	2	2006 21	007 2	008	2009	2010	2011	2012	2013 201	17 20:	22	26 20:	7 201	. 20	019 2	020	2021	2022	2023	2024	2025	unknown		748 da	ates
	Overhead Line		No.	-	_		1	63	1	_	3	- 11	1	2	5	7	6	4	2	1	1	- 1	-		-			1	-	-	-	- 1	_	-	-			-	†	1 /	218	-
1	Overhead Line		No.	-	-	-	_		-	-	_	-	-	_	_		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-		-	-
HV	Subtransmission Line		km	-	-	-			0	-	_	1		- 0			-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-			0	1	1
HV	Subtransmission Line		km	-	_	-				-	-	_	-	_	_		-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-						-	-
HV	Subtransmission Cable		km	-	-	-				5	1	- 4	_				-	-	-	-	0	-	-	-	-		_	4	-	-	-	-	-	-	-					_	14	-
HV	Subtransmission Cable		km	-	-	-	_	5	7	-	0	_	-	-		_	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-					_	12	-
HV	Subtransmission Cable		km	-	-	-	_	-	-	-	-	-	-	+ -	_	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-				<u> </u>	+-	_	-
HV	Subtransmission Cable		km	-	-	-	_	-	-	-	-	_	_	-	_	+	_	-	-	-	-	-	-	_	-	-	-	-	-	_	_	-	-	-	-				\vdash	+		-
HV HV	Subtransmission Cable Subtransmission Cable		km km	-		-	_		+	_	-	-	-	+	_	+	_		-	_	-	-			-		-	-	-	_	_	-			-	\rightarrow			-	+		-
HV	Subtransmission Cable		km		_				_	_	-	_						-	_	_				_					_			-	_			\rightarrow	=		-	+		
HV	Subtransmission Cable		km	- 1	-				-1-	-	-			1			_	-	-	-	-	-	-	_			- 1	-	-	- 1	- 1	-	-	-	-	-		\rightarrow	_		-	-
HV	Subtransmission Cable		km	_	_	_				-	-	_	-	_			-	- 1	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-				-			-
HV	Zone substation Buildings		No.	-	-		1	1	1	1	-	-	-	_	_		-	-	-	-	-	-	-	-	-		-	1	-	-	-	-	-	-	-	-			-		5	-
HV	Zone substation Buildings	Zone substations 110kV+	No.	-	_	-			- [-	-		_				-	-	-	-	-	0	-		-		-	-	-	-	-	-	-	-	-	-			_		-	-
HV	Zone substation switchgear		No.	-	-	-				-	-		_				-	- [-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	_					-	-
HV	Zone substation switchgear		No.	-]	-	-	1 -			- [- 1		-	1	_	4	-	-	-	- (-	-	-	-	-		- _	-	-	- _	-	-	-	-	-						_	-
HV	Zone substation switchgear		No.	-	-	-	_		-	-	-	2	_	-		4	_	-	-	-	-	-	-	-	-		-	-	-	_	-	-	-	-	-					+	2	-
HV	Zone substation switchgear		No.	-	-	-	+	8	1	-	1	-	-	-	_	_	-	-	1	-	-	-	-	-	-	-		3	-	-	_	-	-	-	-					-	14	-
HV	Zone substation switchgear		No.	-	-	-	_	-	+	-	-		-	+-	_	+	_	-	-	-	-	-	-	-	-		+	-	-	-	-	-	- 1	-	-				\vdash	+-		-
HV	Zone substation switchgear		No.	-	-	_	+		+	-	-	5	-	+-	+-	+	_	-	_	-	-	-	-	_	-	-	+	-	-	_	_	-	-	-	-	$\overline{}$	-		-	+	5	-
HV	Zone substation switchgear Zone substation switchgear		No.		-		+	4	11	11	-	-			_	1		-		-	-	- 1	-	_		1	1	17	-			-	-	-		\rightarrow	-		-	+	48	-
HV	Zone substation switchgear		No.	_	_				-	-					-	1	-	- 1	-	_		- 1	-				- 1	-	- 1	-	-	- 1	- 1	-		\rightarrow	-	-	-	+	-	
HV	Zone Substation Transformer		No.	-	-	-		1	1	1	_	-	-		1 -		-	-	-	-	-	-	-	-	1	1 .	-	-	-	-	-	-	-	-	-	_			_		6	-
HV	Distribution Line		km	0	-		0	12	5	2	3	1	-	_	-		-	-	-	-	-	-	0	-	-		-	-	1	0	-	-	-	-	-	_	-	-	1	0	23	-
HV	Distribution Line		km	-	-	-			-	-	-	-	-	_			-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_			_		-	-
HV	Distribution Line	SWER conductor	km	-	-	-				-	-	-	-	-			-	-		-	-	-	-	-	-		-		-	-		-	-	-	-	-	-		-			ı
HV	Distribution Cable		km	0	-	-		0	1	1	2	5		9	6	1	2	3	1	3	2	5	2	2	1	2	0	4	3	1	0	2	0	-	-					-	59	-
HV	Distribution Cable		km	0	-	⊢	1	14	24	33	19	2		-		0	_	1	-	0	2	-	-	-	-	-	0	-	-	-	-	0	-	-	-			_	₩	0	97	-
HV	Distribution Cable		km		-	-	+		+	-	-	_	-	+-	_	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	- 1	-	-				-	+	_	-
HV	Distribution switchgear		No.		-	-	_	-	+	-	-	-	-	+-	_	+	-	-	-	-	-	-	-	-	-		-	2				-	- 1	-	-				₩-	+	2	-
HV	Distribution switchgear		No.	-	-	_	+	/	1	2	-	_	 	+		+	_			-				_	-		-	4	10	17	8	10	-+		-				-		59	-
HV	Distribution switchgear Distribution switchgear		No.			 	4			- 3				+	+	-	_		-1	- 1	-1	- 1	_ 1	3_			-	-1	- 3	- 3	- 6	- 1				\rightarrow	\rightarrow	-	-	+	46	-
HV	Distribution switchgear Distribution switchgear		No.		_		_	15	38	123	54	12	1	, —	17	5	7	15	7	15	74	17	10	17	-	5	4	10	10	11		6				\rightarrow		-	_	+	447	-
HV	Distribution Transformer		No.				1	2	1	-	_	- 12	1 1		1 -		- 1	-	1	-	1	1	-				- 1	-	-	-	-	1	- 1	- 1		-			_		10	
HV	Distribution Transformer		No.	- 1	-		7	30	30	62	69	7	1	2	15	10	8	15	11	9	10	13	15	20	19	9	14	11	6	6	3	4	-	-	-		-		-		415	-
HV	Distribution Transformer		No.	-						-	-						-	-	-	-	-	_					- L	-	-	-	-	-	_	_	-				_		-	-
HV	Distribution Substations		No.	-	-		3	9	2	14	5	1		2 -		1	-	1	1	1	-	-	-	2	-		-	-	-	-	-	1	-	-	-	-			_		43	-
V	LV Line	LV OH Conductor	km	-	_		0	3	0	2	1	16	_		3	1	0	0	0	- 1	0	-	-	0	0	0	0	0	0	0	0	0	-	-	-	-	_	_		0	30	-
V	LV Cable	LV UG Cable	km	1	_		9	47	74	111	64	12	10	5 .	21	3	10	6	7	4	7	6	3	5	2	1	1	2	3	4	2	2	-	-	-				ь	1 /	422	-
V	LV Street lighting		km	2	0		1	15	5	22	88	19	<u> </u>	2	1	0	0	1	0	1	2	1	1	1	0	2	1	0	1	0	0	0	-	-	-				₩		168	-
LV	Connections	OH/UG consumer service connections	No.		3	11	14 2,2	36 3,5	87	,626	5,493	41	5	4	61 1	99	259	280	201	211	131	100	105	97	84	60	63	77	86	62	53	73	13	-	-				4	17,8		-
All	Protection		No.	-	-	-	+	34	31	39	1	4	<u> </u>	-	-	1	-	-	-	-	-	-	-	-	-	-	1	30	11	4	5	7	-	-	-				-	+-	168	-
All	SCADA and communications	SCADA and communications equipment operating as a single system		-	-	-	_	-	-	-	-	-	-	-	_	-	1	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-				-	+	1	-
NII.	Capacitor Banks		No	-	-	-	+-	-	-	-	-	_	-	+	_	+-	-	-	-	-	-	-	-	-	-		-	-	-	-	_	-	-	-	-				-	+		-
All All	Load Control Load Control		Lot No		-	_	+-		+	- 1	-			_		1	_	-	-	-	-			_			_	_			_	-	-			\rightarrow	-			+	1	-
All	Civils	Cable Tunnels	km		_	_	_		-	_				+-	_			-		_	-			_			_		-			-	_			\rightarrow	-	-	-	+		-



Year Ended 31 March 2020 24 of 49

	Company Name		city Invercargill L	iiiiicu
	For Year Ended		31 March 2020	
	Network / Sub-network Name			
CHE	EDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
nis sch	nedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relatin	g to cable and line as	sets, that are express	ed in km, refer to
rcuit l	lengths.			
ref				
9				
9	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	Total circuit lengt (km)
1	>66kV	_	_	-
2	50kV & 66kV	_	_	_
13	33kV	1	26	2
14	SWER (all SWER voltages)	_	_	-
15	22kV (other than SWER)	_	_	-
16	6.6kV to 11kV (inclusive—other than SWER)	23	156	17
17	Low voltage (< 1kV)	30	422	45
18	Total circuit length (for supply)	54	604	65
19				
20	Dedicated street lighting circuit length (km)	25	142	16
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			_
22			(% of total	
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	overhead length)	
24	Urban	51	93%	
25	Rural	2	3%	
26	Remote only	_	-	
27	Rugged only	2	4%	
28	Remote and rugged	_	1	
29	Unallocated overhead lines	_	ı	
30	Total overhead length	54	100%	
31				
		Circuit Israeth (1)	(% of total circuit	
32	Local of circuit within 10 local face bline and the second control of the second	Circuit length (km)	length) 100%	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	658		
		Circuit Israeth (1)	(% of total	
34		Circuit length (km)	overhead length)	1
35	Overhead circuit requiring vegetation management	4	7%	



Year Ended 31 March 2020 25 of 49

			Company Name	Electricity Inve	rcargill Limited
			For Year Ended	31 Mar	ch 2020
SC	HEDULE 9d: RE	PORT ON EMBEDDED NETWORKS			
This	schedule requires infor	rmation concerning embedded networks owned by an EDB that are embedded in another EDB's networks	k or in another embedd	led network.	
sch rej	•				
Sui lej					
8	las	cation *		Number of ICPs served	Line charge revenue (\$000)
9	Loc	cation ·	1	Number of ices served	(\$000)
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21	_		ŀ		
22					
23					
24 25					
23	* Extend embedd	led distribution networks table as necessary to disclose each embedded network owned by the EDB which	is embedded in anothei	r EDB's network or in and	ther embedded
26	network				



Year Ended 31 March 2020 26 of 49

Company Name Electricity Invercargill Li	mited
For Year Ended 31 March 2020	iiiiteu
Network / Sub-network Name	
SCHEDULE 9e: REPORT ON NETWORK DEMAND This schedule requires a summary of the leav measures of petwork utilisation for the disclosure year (number of new connections including	
This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).	
sch ref	
8 9e(i): Consumer Connections	
9 Number of ICPs connected in year by consumer type	
Number of Consumer types defined by EDB* Connections (ICPs)	
11 Domestic 56	
12 Half Hour Individual 2	
Non Domestic 19	
14	
16 * include additional rows if needed 17 Connections total 77	
17 Connections total 77	
Distributed generation	
	nnections
21 Capacity of distributed generation installed in year 0.10 MV	VA
9e(ii): System Demand	
22 Se(II): System Demand	
24 Demand at time of	
maximum	
coincident demand	
25 Maximum coincident system demand (MW)	
26 GXP demand 62	
27 plus Distributed generation output at HV and above	
28 Maximum coincident system demand 62	
29 less Net transfers to (from) other EDBs at HV and above (1.5) 30 Demand on system for supply to consumers' connection points 63	
31 Electricity volumes carried Energy (GWh)	
32 Electricity supplied from GXPs 253	
33 less Electricity exports to GXPs	
34 plus Electricity supplied from distributed generation 0.2 35 less Net electricity supplied to (from) other EDBs (14)	
35 less Net electricity supplied to (from) other EDBs (14) 36 Electricity entering system for supply to consumers' connection points 267	
37 less Total energy delivered to ICPs 252	
38 Electricity losses (loss ratio) 15	5.7%
39	
40 Load factor 0.48	
9e(iii): Transformer Capacity	
42 (MVA)	
43 Distribution transformer capacity (EDB owned) 150	
44 Distribution transformer capacity (Non-EDB owned, estimated) 2	
45 Total distribution transformer capacity 152	
46	
Zone substation transformer capacity 82	



Year Ended 31 March 2020 27 of 49

INFORMATION DISCLOSURE

		Company Name	Electricity Invercargill Limited 31 March 2020
	Network	For Year Ended	51 Warch 2020
SC	HEDULE 10: REPORT ON NETWORK RELIABILITY	/ Sub-lietwork Nume	
	Schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault ra	ate) for the disclosure year. F	DRs must provide explanatory comment on their
netw	ork reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI info		
the I	D determination), and so is subject to the assurance report required by section 2.8.		
sch ref	f .		
8	10(i): Interruptions		
٥	10(1). Interruptions	Number of	
9	Interruptions by class	interruptions	
10	Class A (planned interruptions by Transpower)	-	
11 12	Class B (planned interruptions on the network) Class C (unplanned interruptions on the network)	17 33	
13	Class D (unplanned interruptions of the network)	-	
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)	2	
17	Class H (planned interruptions caused by another disclosing entity)	-	
18 19	Class I (interruptions caused by parties not included above) Total	52	
20	iotai	52	
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within	29	4
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)	-	-
26 27	Class B (planned interruptions on the network) Class C (unplanned interruptions on the network)	0.05 1.25	13.1 65.4
28	Class D (unplanned interruptions of the network)	1.25	-
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)	0.07	2.1
32	Class H (planned interruptions caused by another disclosing entity)	-	-
33 34	Class I (interruptions caused by parties not included above) Total	1.37	80.6
35	iotai	1.57	80.0
36	Normalised SAIFI and SAIDI	Normalised SAIFI N	Formalised SAIDI
37	Classes B & C (interruptions on the network)	1.30	78.6
37	classes b & C (litterruptions of the network)	1.50	78.0
38			
	10/ii): Class C Interruptions and Duration by Cause		
39 40	10(ii): Class C Interruptions and Duration by Cause		
	6	CAIFI	CAUDI
41 42	Cause Lightning	SAIFI	SAIDI
43	Vegetation	_	
44	Adverse weather	0.05	1.7
45	Adverse environment	-	
46	Third party interference	0.08	7.0
47 48	Wildlife Human error	0.09	2.2
48	Defective equipment	1.01	52.9
50	Cause unknown	0.02	1.6
51			
	10(iii): Class B Interruptions and Duration by Main Equipment In all		
52 53	10(iii): Class B Interruptions and Duration by Main Equipment Involved		
54	Main equipment involved	SAIFI	SAIDI
55	Subtransmission lines		-
56	Subtransmission cables	-	
57	Subtransmission other		-
58	Distribution lines (excluding LV)	0.03	8.8
69	Distribution cables (excluding LV) Distribution other (excluding LV)	0.01	3.4 0.9
60	Distribution other (excluding EV)	0.01	0.9
61	10(iv): Class C Interruptions and Duration by Main Equipment Involved		
62			
63	Main equipment involved	SAIFI	SAIDI
64	Subtransmission lines	-	_
65	Subtransmission cables	-	-
66 67	Subtransmission other Distribution lines (excluding LV)	0.30 0.14	21.1 10.9
68	Distribution lines (excluding LV) Distribution cables (excluding LV)	0.14	25.3
69	Distribution other (excluding LV)	0.27	8.1
70	10(v): Fault Rate		
71	Main equipment involved	Number of Faults Ci	Fault rate (faults rcuit length (km) per 100km)
72	Subtransmission lines		1.4
73	Subtransmission cables	-	26.2
74	Subtransmission other	1.0	
75	Distribution lines (excluding LV)	15.0	23.2 64.71
76	Distribution cables (excluding LV)	10.0	155.7 6.42
77 78	Distribution other (excluding LV) Total	7.0	



Year Ended 31 March 2020 28 of 49

SCHEDULE 14 MANDATORY EXPLANATORY NOTES

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

Return on Investment (Schedule 2)

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

Box 1: Explanatory comment on return on investment

Electricity Invercargill Limited achieved a post-tax WACC of 6.94% which is above the 75th percentile estimate of post-tax WACC of 4.95% and a 7.37% vanilla WACC which is above with the 75th percentile estimate of vanilla WACC of 5.37%.

No items were reclassified.

Regulatory Profit (Schedule 3)

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

Box 2: Explanatory comment on regulatory profit

Included in other regulated income is an amount of \$59k for line charges to another lines company.

No items were reclassified in the disclosure year.

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

- If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
 - 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
 - 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 or acquisition expenses incurred in the disclosure year.

Value of the Regulatory Asset Base (Schedule 4)

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

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

The calculation of the Regulatory Asset Base (RAB) was stated using the 31 March 2019 closing figure of \$86,605k as a starting point with inflationary indexing over the year to 31 March 2020 plus additions less disposals. This resulted in a closing RAB balance of \$89,033k.

No items were reclassified.

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

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

Box 5: Regulatory tax allowance: permanent differences

The expenditure deductible but not in regulatory profit is the \$144k cost of easements which is a tax deductible expense.

There are no other permanent differences.

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Year Ended 31 March 2020 30 of 49

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

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

Box 6: Tax effect of other temporary differences (current disclosure year)

Temporary differences are the tax effect of the difference between the tax and disclosure treatment of capital contribution income.

Taxable Capital Contributions:	\$ 80
	\$ 80
Tax Rate:	28%
Temporary Differences	\$ 22

Cost allocation (Schedule 5d)

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

Box 7: Cost allocation

With the exception of some Business support costs (which have been apportioned using the ABAA method), all other costs are directly attributable as they were either passed through by PowerNet as agent or were invoiced to Electricity Invercargill Limited (no causal allocator is applicable and revenue has been used as a proxy allocator).

No items were reclassified.

Asset allocation (Schedule 5e)

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

Box 8: Commentary on asset allocation

All network assets are directly attributable.

No items were reclassified.



Capital Expenditure for the Disclosure Year (Schedule 6a)

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

Box 9: Explanation of capital expenditure for the disclosure year

The materiality threshold applied to identify programmes or projects during the disclosure year was \$100k. Lower value projects with defined scope were included in the list for specific identification within categories.

No items were reclassified during the disclosure year.

Operational Expenditure for the Disclosure Year (Schedule 6b)

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

Box 10: Explanation of operational expenditure for the disclosure year

Reactive and minor maintenance is performed on Electricity Invercargill Limited's transformers and cables and this is classified as refurbishment and renewal maintenance when the work performed is not material in relation to the overall value of the asset.

No items were reclassified during the disclosure year.

There was no material atypical expenditure disclosed in Schedule 6b.

Variance between forecast and actual expenditure (Schedule 7)

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

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Year Ended 31 March 2020 32 of 4

Box 11: Explanatory comment on variance in actual to forecast expenditure

No items were reclassified during the disclosure year. Refer to each classification under point 13 and 14 above.

Capital Expenditure:

The actual expenditure on network assets was 20% below budget.

Consumer connection:

 Net 24% overspend due to customer driven delays in the new Kmart and Blue River Dairy connections (originally scheduled to be completed in the 2018/19 year).

System Growth:

• No spend in this category for FY19/20

Asset replacement and renewal:

- Net 23% underspend for FY19/20 largely due to delays in the Southern Sub project caused by issues with competitive tendering/access and customer associated easement delays for RMU replacement work.

Asset Relocations:

• 100% underspend as no customer initiated relocation requests were received for the year.

Quality of Supply:

• 32% underspend as no customer related power quality issues warranting network upgrade.

Reliability, Safety and Environment:

• 17% underspend due to difficulties accessing distribution earth sites for test and upgrade.

Operational Expenditure:

Network opex was 19% above budget.

Service interruptions and emergencies:

• 22% overspend due to due to to higher than average faults and fault response (see Box 13).

Vegetation management:

Small reactive budget.

Routine and corrective maintenance and inspection:

• 30% overspend due to largely due to corrective action following distribution cable faults and cable termination faults.

Asset replacement and renewal:

• 50% underspend due to resource's being used for fault response and corrective maintenance work.

System Operations and Network Support:

• 13% underspent mainly due to the deferral of the proposed insurance captive for the network lines and cables.

Business Support:

• 4% underspend which is a minor variation representing \$93k savings in operating expenditure during the year

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Year Ended 31 March 2020 33 of 4

Information relating to revenues and quantities for the disclosure year

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

Box 12: Explanatory comment relating to revenue for the disclosure year

Year ended 31 March 2020:

- Target revenue for the 2019-20 year was \$20,674k. The total billed revenue for the 2019-20 year was \$20,753k, which is \$79k above.
- A cold wet summer caused additional consumption during this period resulting in the variable line charge being above budget.

Year Ended 31 March 2020 34 of 49

Network Reliability for the Disclosure Year (Schedule 10)

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

Box 13: Commentary on network reliability for the disclosure year

The SAIDI assessed value for 2019/20 at 47.15, was above the applicable Commerce Commission Limit of 31.13, and above the Commerce Commission target level of 24.08.

The SAIFI assessed value for 2019/20 at 0.92, was above the applicable Commerce Commission Limit of 0.77, and above the Commerce Commission target level of 0.59.

However, in accordance with the Issues Register for Electricity and Gas Information Disclosure, issues 447 and 458, EIL has disclosed normalised SAIDI/SAIFI calculated according to the 2012 EDB ID while disclosing limits calculated according to the 2015 DPP.

EIL has disclosed a normalised SAIDI at 78.6 and normalised SAIFI at 1.3 for 2019/20.

2019/20 SAIDI and SAIFI were higher than the expected long term averages. Outages for 2019/20 were characterised by:

- high customer numbers impacted by third-party caused incidents
- · high number of cable termination type failures due to external contractor work quality
- unusually high number of cable failures
- unusually high number of human error related trips
- high customer numbers impacted by a protection communications circuit failure to Southern Zone Substation that was difficult to diagnose, find, and repair

The information has been prepared on a basis consistent with the previous year's disclosure and EIL has recorded successive interruptions, originating from the same cause, as single interruptions.

Due to the small footprint and underground nature of the network, the probability of an interruption is relatively low. However, in the event of an interruption, the number of customers affected tends to be high as a percentage of the total customer base. This inherent variance makes SAIDI & SAIFI difficult to predict for any given year.

Network reliability is compliant with quality requirements under the default price-quality path, however there are inherent limitations in the ability of Electricity Invercargill Limited to collect and record the network reliability information required to be disclosed in Reports 10(i) to 10(iv). Consequently there is no independent evidence available to support the accuracy of recorded faults and control over the accuracy of installation control point ('ICP') data, included in the SAIDI and SAIFI calculations, is limited throughout the year.

Year Ended 31 March 2020 35 of 49

Insurance cover

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

Box 14: Explanation of insurance cover

Electricity Invercargill Limited insures its substations, network equipment and buildings.

• Substations and network equipment are insured for \$27.1 million.

Lines and cables are not insured. Electricity Invercargill Limited therefore "self-insures" its lines and cables but does not recognise the cost of self-insurance.

Amendments to previously disclosed information

- 18. 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:
 - 18.1 a description of each error; and
 - 18.2 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

No amendments were disclosed.

Year Ended 31 March 2020 36 of 49

Schedule 14a Mandatory Explanatory Notes on Forecast Information

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

- 19. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.
- 20. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

21. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts Inflationary assumptions were used to calculate the nominal prices in the forecast.

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

22. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts Nominal Prices are based on publicly available New Zealand Treasury's economic forecast indicated in the Half Year Economic and Fiscal Update (HYEFU) report released in December 2018:

	2020	2021	2022	2023	2024
Inflator (CAPEX & OPEX)	2.0%	2.0%	2.0%	2.0%	2.4%

Forecasts are in line with the business plan projections and explanations outlined in the Asset Management Plan.

Year Ended 31 March 2020 37 of 49

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

Box 1: Voluntary explanatory comment on disclosed information

Year Ended 31 March 2020 38 of 49

4. APPENDIX - Related Party Transaction:

Additional Information Disclosure

4.1 Introduction

For the purpose of meeting the 2020 Related Party Transaction reporting requirements, in accordance with section 2.3.6 of the Electricity Information Disclosure Determination 2012, (Consolidated in 2018), issued 3 April 2018.

The following information is provided in reference to and support of:

□ Electricity Invercargill Limited's 2020 Information Disclosure, for the year ended 31 March 2020 - Schedule 5(b) Related party Transactions

4.2 INFORMATION DISCLOSURE REQUIREMENTS

The Related Party Transaction information disclosed on the following pages has been prepared in accordance with <u>Limited Disclosure</u> requirements, due to the level of expenditure incurred by Electricity Invercargill Limited's (EIL) being less than \$20 million, for the year ending 31 March 2020.

Limited Disclosure requires additional information be provided associated with related party transactions, limited to details of related party relationships and nature of work undertaken.

This information is also subject to the Information Disclosure assurance opinion and Director Certification.

Year Ended 31 March 2020 39 of 49

4.3 RELATED PARTY RELATIONSHIPS

Electricity Invercargill Limited (EIL) has an interest in PowerNet Limited, the OtagoNet Joint Venture, Electricity Southland Limited, and the Southern Generation Limited Partnership through their wholly owned subsidiary company Pylon Limited. PowerNet Limited held an interest in PowerNet Central Limited. Following the acquisition of the remaining 10% shareholding, PowerNet Central was amalgamated with PowerNet Limited on 31 March 2020.

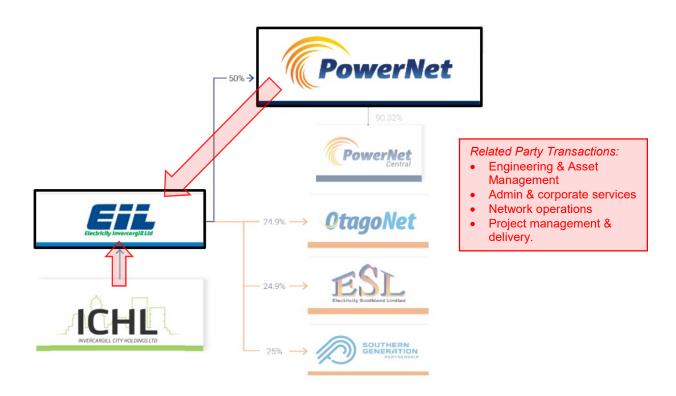
During the year ending 31 March 2020, EIL had related party transactions with the following entities:

• Goods and services provided by - PowerNet Limited; Invercargill City Holdings Limited

The transactions between EIL and PowerNet are subject to Related Party Transaction reporting.

Company Structure

Electricity Invercargill Limited (EIL) is wholly-owned by Invercargill City Holdings Limited. The following diagram illustrates EIL's ownership interests in PowerNet and other related entities in the EIL Group, and the nature of related party transaction work undertaken.





Year Ended 31 March 2020 40 of 49

a. PowerNet Limited

EIL holds a 50% shareholding in electricity network management company PowerNet Limited (PowerNet). PowerNet provides a range of field contracting, asset management, system control and finance and commercial services to EIL. The value of the related party transactions for the year ended 31 March 2020 is categorised as follows:

		(\$'000)	
Ope	rating Expenditure:		
i.	Service interruptions and emergencies	597	
ii.	Vegetation management	10	
iii.	Routine and corrective maintenance and inspection	1,358	
iv.	Asset replacement and renewal (opex)	106	
٧.	System operations and network support	299	
vi.	Business support	1,389	
Cap	ital Expenditure		
i.	Consumer connection	519	
i.	System Growth	-	
ii.	Asset replacement and renewal (capex)	3,955	
iii.	Asset relocations	-	
iv.	Quality of supply	71	
٧.	Other reliability, safety and environment	186	
To	otal Related Party expenditure from PowerNet	8,489	

In the year to 31 March 2020, PowerNet provided 100% of the EIL Lines Business Capital Expenditure, and 78% of all Operating Expenditure. The high percentage of related party transactions relative to total expenditure is due to PowerNet operating under a Network Management Agreement (NMA) with EIL, in the form of an "agency agreement".

Services provided under the agreement include:

- Electricity distribution field services
- System control services
- Project management of capital and maintenance work
- Faults restoration and stand by (on call) arrangements
- Asset management for EDB and meters,
- Heath, Safety and Environment management
- Business support, IT support and human resources
- Corporate, finance and commercial services

For the majority of the year, PowerNet held an ownership interest of approximately 90% in PowerNet Central Ltd (formerly Peak Power Services Ltd), a Central Otago based electricity distribution maintenance contracting business, servicing the Electricity Southland Ltd network assets. Following the acquisition of the remaining 10% shareholding, PowerNet Central was amalgamated with PowerNet Ltd on 31 March 2020.



Year Ended 31 March 2020 41 of 4

b. Invercargill City Holdings Limited

EIL is owned 100% by Invercargill City Holdings Limited (ICHL). The role of ICHL is to provide governance, funding and treasury support to the subsidiary companies they own.

The value of the related party transactions between ICHL and EIL for the year ended 31 March 2020 is categorised as follows:

	(\$'000)
Operating Expenditure:	
i. Business support	155
Total Related Party expenditure from ICHL	155

In the year to 31 March 2020, ICHL provided 8.9% of all Operating Expenditure relating to management fees.

Network Management Agreement

EIL incurs 100% of its capital expenditure and a high percentage of its operating costs for its electricity distribution and metering businesses from PowerNet, in accordance with the explicit terms and conditions of the PowerNet Network Management Agreement (NMA).

While EIL owns the Network Assets and provides Line Function Services in Invercargill city and the Bluff township area, under the agreement PowerNet will manage the network assets, have right to carry out an agreed Capital Works programme, have the exclusive right to provide Line Function Services, and have the right to provide the business administration services on behalf of EIL.

PowerNet was established in 1994 to extract operational efficiencies from the merger of field work management, asset management and office based functions performed by EIL and The Power Company Limited (TPCL). In 1993, there were two autonomous Lines Companies in Southland (EIL and TPCL). Each had a separate staff, management and Board of Directors, and each had a different ownership structure. Directors of both companies recognised there would be significant economies of scale benefits if there were a single Lines company covering the area. Due to different ownership a single Lines company was not possible, however a single network management entity was a viable option.

The ongoing drive for efficiency by merging operations and achieving scale was recently identified by the Government Pricing Review and the terms of reference required investigation into the "PowerNet model" as the review looked at how other EDBs could potentially do the same.

PowerNet charges Agency Fees to the EDB's and metering businesses it manages under the NMA's. These charges recover costs incurred in the performance of the system control services, asset management, corporate, finance and commercial services.

These costs are charged to customers based on a cost allocation methodology applied within PowerNet. The allocation is based on various allocation drivers, including field operating orders, staff numbers, EDB asset size, EDB customers and a departmental assessment of indirect labour time splits. The allocation forms the basis of costs recovered from:

- the agency fee to be charged to the EDB's and metering businesses and
- the capital mark-up to recover costs allocated to EDB and meter capital projects

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Year Ended 31 March 2020 42 of 4

An independent review in 2018 of the allocation methodology ensured all parties that are charged agency and other fees by PowerNet are treated consistently and appropriately for each party.

Arm's Length Requirement

EIL believes the related party work performed by PowerNet is performed on an 'arm's-length' basis as if EIL and PowerNet were acting as willing buyer and willing seller, acting with independence and in pursuit of their own interests.

This view is based on the following reasons and best intent:

- · Cost efficiencies and operating efficiencies generated from economies of scale;
- Cost efficiencies gained through supplier agreements eg Corys Electrical supply agreement with pricing mechanisms ensuring prices are maintained at a market competitive level;
- Separate entities operating with clear separation of duties and responsibilities;
- Two independent EDB entities with independent Directors acting in the best interests of their own business, owning and governing PowerNet;
- Relative labour costs benchmarking closely (+/-13%) within the average of alternate external supplier rates provided over the past two years;
- Market testing through tendering processes;
- External non-network customer work being awarded to PowerNet based at or above the same internal rates as charged to the EDB customers;
- Large percentage of Works Programme costs charged to EIL (almost 60% of Capital and Maintenance work) sourced from external suppliers, on a traditional arm's length transaction basis;
- Transparency of cost allocation process and mark-up rate agreed between the PowerNet EDB customers; Independent assessments of PowerNet performance and rates charged to EIL, providing favourable outcomes.



Year Ended 31 March 2020 43 of 49



INDEPENDENT ASSURANCE REPORT TO THE DIRECTORS OF ELECTRICITY INVERCARGILL LIMITED AND THE COMMERCE COMMISSION

The Auditor-General is the auditor of Electricity Invercargill Limited (the company). The Auditor-General has appointed me, Nathan Wylie, using the staff and resources of PricewaterhouseCoopers, to provide an opinion, on his behalf, on:

- whether the information required to be disclosed in accordance with the Electricity Distribution Information Disclosure Determination 2012 as amended by the Information Disclosure exemption: Disclosure and auditing of reliability information within schedule 10, issued by the Commerce Commission on 9 April 2020 (the 'Determination, as amended') for the disclosure year ended 31 March 2020, have been prepared, in all material respects, in accordance with the Determination, as amended.
 - The disclosure information required to be reported by the Company, and audited by the Auditor-General under the Determination, as amended, is in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, 10, and the explanatory notes in boxes 1 to 11 in Schedule 14 ('the Disclosure Information').
- whether the Company's basis for valuation of related party transactions ('the Related Party Transaction Information') for the disclosure year ended 31 March 2020, has been prepared, in all material respects, in accordance with clause 2.3.6 of the Determination, as amended, and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012 ('the Input Methodologies Determination').

Qualified Opinion

In our opinion, except for the possible effect of the matter described in the Basis for qualified opinion section of our report:

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

In forming our qualified opinion, except as explained in the Basis for qualified opinion section of our report, we have obtained sufficient recorded evidence and all the information and explanations we have required.

Basis of qualified opinion

As described in Box 13 of Schedule 14, there are inherent limitations in the ability of the Company to collect and record the network reliability information, specifically the interconnection points ('ICP's') affected by an interruption and the duration of the interruption, used in calculating the amounts required to be disclosed in Schedules 10(i) to 10(iv). Consequently, there is no independent evidence available to support the accuracy of the ICP's affected and duration of an interruption. Controls over the accuracy of ICP and interruption data included in the SAIDI and SAIFI outage statistics was limited throughout the year.



There are no practical audit procedures that we could adopt to independently confirm the accuracy of the ICP data used to record the number of ICP's affected and duration of the interruption for the purposes of inclusion in the amounts relating to SAIDI and SAIFI outage statistics set out in Schedules 10(i) to 10(iv). Because of the potential effect of the limitations described above, we are unable to form an opinion as to the accuracy of the data that forms the basis of the compilation of Schedules 10(i) to 10(iv). In this respect alone we have not obtained all the recorded evidence and explanations that we have required.

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

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

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

Scope and inherent limitations

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

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

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

Key Assurance Matters

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



Key assurance matter

Regulatory Asset Base

The Regulatory Asset Base (RAB), as set out in Schedule 4, reflects the value of the Company's electricity distribution assets. These are valued using an indexed historic cost methodology prescribed by the Determination, as amended. It is a measure which is used widely and is key to measuring the Company's return on investment and therefore important when monitoring financial performance or setting electricity distribution prices.

The RAB inputs, as set out in the Input Methodologies, are similar to those used in the measurement of fixed assets in the financial statements, however, there are a number of different requirements and complexities which require careful consideration.

Due to the importance of the RAB within the regulatory regime, the incentives to overstate the RAB value, and complexities within the regulations, we have considered it to be a key area of focus.

How our procedures addressed the key assurance matter

We have obtained an understanding of the compliance requirements relevant to the RAB as set out in the Determination, as amended and the Input Methodologies (IMs).

We have performed the following procedures:

Assets commissioned

- We reconciled the assets commissioned, as per the regulatory fixed asset register, to the asset additions disclosed in the audited annual financial statements and investigated any reconciling items;
- We inspected the assets commissioned during the period, as per the regulatory fixed asset register, to identify any specific cost or asset type exclusions, as set out in the Determination, as amended which are required to be removed from the RAB;
- We tested a sample of assets commissioned during the disclosure period for appropriate asset category classification;

Depreciation

- We compared the standard asset lives by asset category to those set out in the IMs;
- We verified the spreadsheet formula utilised to calculate regulatory depreciation expense is in line with IM clause 2.2.5;

Revaluation

- We recalculated the revaluation rate set out in the Input Methodologies using the relevant Consumer Price Index indices taken from the Statistics New Zealand website;
- We tested the mathematical accuracy of the revaluation calculation performed by management;

Disposals

• We inspected the asset disposals within the accounting fixed asset register to ensure disposals in the RAB meet the definition of a disposal per the IMs.

We have no matters to report from undertaking those procedures.



Key assurance matter

Related party transactions

Disclosures over related party transactions as required under the Determination, as amended and the Input Methodologies are set out in Appendix A.

The Determination, as amended and the Input Methodologies require the Company to value its transactions with related parties, disclosed in Schedule 5b, in accordance with the principles-based approach to the arm's length valuation rule. This rule states that the value of goods or services acquired from a related party cannot be greater than if it had been acquired under the terms of an arm's length transaction with an unrelated party, nor may it exceed the actual cost to the related party. A sale or supply to a related party cannot be valued at an amount less than if it had been sold or supplied under the terms of an arm's-length transaction with an unrelated party.

Arm's-length valuation, as defined in the Input Methodologies, is 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.

The Company is required to use an objective and independent measure to demonstrate compliance with the arm's-length principle. In the absence of an active market for similar transactions, assigning an objective arm's length value to a related party transaction is difficult and requires significant judgement.

We have identified related party transactions at arm's-length as a key audit matter due to the judgement involved.

How our procedures addressed the key assurance matter

We have obtained an understanding of the compliance requirements relevant to related party transactions as set out in the Determination, as amended, and the Input Methodologies. We have ensured Schedule 5(b) and Appendix A includes all required disclosures as appropriate for an EDB required to make limited disclosure.

We have performed the following procedures over Schedule 5(b) and Appendix A.

Completeness and accuracy of related party relationships and transactions

We have tested the completeness and accuracy of the related party relationships and transactions by:

- Agreeing the disclosures within Schedule 5(b) to the audited financial statements for the year ended 31 March 2020 and to the accounting records, investigating any differences and determining whether any such differences are justified; and
- Applying our understanding of the business structure against the related party definition in Input Methodologies Determination clause 1.1.4(2)(b) to assess management's identification of any "unregulated parts" of the entity.

Arm's length valuation rule

We obtained the Company's assessment of the available independent and objective measures used in supporting the arm's length valuation principle and performed the following procedures:

- Re-performed the calculations and agreed key inputs and assumptions to supporting documentation;
- Where benchmarking or other market information was used as independent and objective measures, we assessed whether the related party transaction values fell within an acceptable range. Qualitative factors were considered in determining the appropriate acceptable range.

We have no matters to report from undertaking those procedures.



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

The directors of the Company are responsible for:

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

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

Our responsibility for the Disclosure Information and the Related Party Information

Our responsibility is to express an opinion on whether:

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

Independence and quality control

When carrying out the engagement, we complied with:

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

The Auditor-General, and his employees, and PricewaterhouseCoopers and its partners and 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 business, this engagement, engagements in the areas of compliance with the Electricity Distribution Services Default Price-Quality Path Determination 2015 and other regulatory requirements of the Commerce Act 1986, as well as regulatory advisory services which are compatible with those independent requirements and the annual audit of the Company's financial statements, we have no relationship with or interests in the Company.

Use of this report

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

Nathan Wylie

Pricewaterhouse Coopers

On behalf of the Auditor-General Christchurch, New Zealand

27 August 2020

6. DIRECTORS' CERTIFICATE

Schedule 18: Certification for Year-End Disclosures

Clause 2.9.2

We, Thomas Campbell and Sarah Jane Brown, being directors of Electricity Invercargill 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 the Electricity Invercargill Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained.
- c) in respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that-
 - the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
 - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.

Thomas Campbell

27 August 2020

Sarah Jane Brown

Footnote

The Directors of Electricity Invercargill Limited (EIL) note the amendment in respect to the Information Disclosure Exemption: Disclosure and auditing or reliability information within schedule 10, issued by the Commerce Commission on 9 April 2020 that has removed the auditor report requirements relating to the treatment of successive interruptions for reporting SAIDI, SAIFI, and interruptions, because of potential inconsistencies in treatment approaches across the industry.

Directors note that they do not appear to have been provided a similar exemption relating to treatment of successive interruptions regarding their certification. The information has been prepared on a basis consistent with the previous year's disclosure and Electricity Invercargill Limited has recorded successive interruptions, originating from the same cause, as single interruptions.