

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

FOR THE YEAR ENDED 31 MARCH 2019

INFORMATION DISCLOSURE

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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.

INFORMATION DISCLOSURE

3. SCHEDULES

			Company Name	Elect	ricity Invercargil	l Limited
			For Year Ended		31 March 201	9
				ALC: NOT A	Cat Contain	
	HEDULE 1: ANALYTICAL RATIOS					
nter lisc	schedule calculates expenditure, revenue and service ratios from the informatio preted with care. The Commerce Commission will publish a summary and analys osed in accordance with this and other schedules, and information disclosed un information is part of audited disclosure information (as defined in section 1.4 4	sis of information disc nder the other requirer	losed in accordance nents of the determin	with the ID determination.	nation. This will incl	ude information
ref						
7	1(i): Expenditure metrics					
8		Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MV/ of capacity from EDB- owned distribution transformers (\$/MVA)
9	Operational expenditure	19,420	283	78,295	7,504	33,230
	Network	6,322	92	25,490	2,443	10,81
	Non-network	13,097	191	52,805	5,061	22,41
	Europe ditures an exacts	18,969	277			32,45
3	Expenditure on assets Network	18,969	277	76,479	7,330 7,330	32,45
	Non-network	-	-	76,475	7,330	52,45
	1(ii): Revenue metrics					
		Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)			
	Total consumer line charge revenue	80,795	1,179			
	Standard consumer line charge revenue	80,795	1,179			
	Non-standard consumer line charge revenue		-			
	1(iii): Service intensity measures					
	Demand density	93	Maximum coincider	nt system demand pe	r km of circuit length	(for supply) (kW/km)
	Volume density	386	Total energy deliver	red to ICPs per km of	circuit length (for sup	ply) (MWh/km)
	Connection point density	26	Average number of	ICPs per km of circuit	length (for supply) (ICPs/km)
	Energy intensity	14,597	Total energy deliver	red to ICPs per averag	e number of ICPs (kv	Vh/ICP)
	1(iv): Composition of regulatory income					
	100, composition of regulatory income		(\$000)	% of revenue		
	Operational expenditure]	4,938	24.08%		
	Pass-through and recoverable costs excluding financial incentiv	ves and wash-ups	6,510	31.75%		
	Total depreciation		3,120	15.21%		
	Total revaluations		1,245	6.07%		
	Regulatory tax allowance		1,683	8.21%		
		1-ups	5,501	26.82%		
	Regulatory profit/(loss) including financial incentives and wash		20 505			
	Total regulatory income	[20,506			
		[20,506			



	Company Name		ty Invercargill Li	mited
	For Year Ended		31 March 2019	
	EDULE 2: REPORT ON RETURN ON INVESTMENT			
OIba (iii). DBs n	chedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimat ised 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, nust provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). iformation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to	information supporting	this calculation mus	t be provided in
ref		ane assurance reportre	quirea by section 2.0	
	7(i). Poturn on Invoctment	CY-2	CY-1	Current Year CY
7 8	2(i): Return on Investment	31 Mar 17	31 Mar 18	31 Mar 19
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned	6.76%	5.78%	6.29%
11	Excluding revenue earned from financial incentives	6.76%	5.81%	6.15%
12	Excluding revenue earned from financial incentives and wash-ups	6.69%	5.73%	6.08%
13				
14	Mid-point estimate of post tax WACC	4.77%	5.04%	4.75%
15	25th percentile estimate	4.05%	4.36%	4.07%
16	75th percentile estimate	5.48%	5.72%	5.43%
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	7.31%	6.37%	6.80%
21	Excluding revenue earned from financial incentives	7.31%	6.40%	6.66%
22	Excluding revenue earned from financial incentives and wash-ups	7.23%	6.32%	6.58%
23				
24	WACC rate used to set regulatory price path	7.19%	7.19%	7.19%
25				
26	Mid-point estimate of vanilla WACC	5.31%	5.60%	5.26%
27 28	25th percentile estimate	4.59%	4.92%	4.58%
29	75th percentile estimate	6.03%	0.2 976	5.94%
30	2(ii): Information Supporting the ROI	,	(\$000)	
31				
32	Total opening RAB value	84,072		
33	plus Opening deferred tax	(3,434)		
34	Opening RIV	L	80,638	
35		_		
36	Line charge revenue		20,545	
37				
38	Expenses cash outflow	11,448		
39	add Assets commissioned	4,533		
40	less Asset disposals	126		
41	odd Tax payments	1,228		
42	less Other regulated income	(38)		
43	Mid-year net cash outflows	L	17,122	
44 45	Term credit spread differential allowance	Г		
165.00		L		
46 47	Total closing RAB value	86,605		
18	less Adjustment resulting from asset allocation	86,605		
19	less Lost and found assets adjustment	<u>J</u>		
50	plus Closing deferred tax	(3,889)		
51	Closing RIV	(3,003)	82,716	
52			02,122	
53	ROI – comparable to a vanilla WACC			6.80%
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			4.33%
57	Corporate tax rate (%)			28%
			-	
58				



61		e Monthly ROI					
62 63							N/A
64						1	N/A
65							
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67			Guillow	commissioneu	4159 05415	Income	-
68							-
69							
70 71	a second s						
72							
73							-
74	November						-
75	CONVERSION STATISTICS.						-
76							-
77 78	February March						
79	Total	STRUCTURE STREET		Contractor Later	Station Sea	A CONTRACTOR OF A	
80							
81	Tax payments						N/A
82							
83	Term credit spread differential allow	vance					N/A
84							
85	Closing RIV						N/A
86 87							
88	Monthly ROI – comparable to a vanilla \	WACC					N/A
89							
90	Monthly ROI — comparable to a post tax	K WACC					N/A
91							
92	2(iv): Year-End ROI Rates for Cor	mparison Purposes					
93 94	Year-end ROI — comparable to a vanilla	WACC					6.35%
94	rear-end KOT – comparable to a vanna	WACC				· · · · ·	0.35%
96	Year-end ROI – comparable to a post ta	X WACC					5.84%
97							
98	* these year-end ROI values are compare	able to the ROI reported in pre 2	012 disclosures by EDBs	and do not represent th	e Commission's cur	rent view on ROI.	
99		and the second se					
100	2(v): Financial Incentives and Wa	ash-Ups					
101 102	Net recoverable costs allowed under	-	CORDECC				
102	Purchased assets – avoided transmi		scheme				
104	Energy efficiency and demand incen	communication of the second second					
105	Quality incentive adjustment					153	
106	Other financial incentives						
107	Financial incentives						153
108						r	
109 110	Impact of financial incentives on ROI						0.14%
111	Input methodology claw-back						
112	CPP application recoverable costs						
113	Catastrophic event allowance						
114	Capex wash-up adjustment					86	
115	Transmission asset wash-up adjustr	ment					
116	2013–15 NPV wash-up allowance						
117	Reconsideration event allowance Other wash-ups						
118 119	Wash-up costs						86
120						L	
121	Impact of wash-up costs on ROI						0.08%



INFORMATION DISCLOSURE

18		
		tricity Invercargill Limited
	For Year Ended	31 March 2019
Thi reg Thi	CHEDULE 3: REPORT ON REGULATORY PROFIT is schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections gulatory profit in Schedule 14 (Mandatory Explanatory Notes). is information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance	
ch r 7		(\$000)
8	Income	
9		20,545
10 11		(101)
12		
13	Total regulatory income	20,506
14		
15 16	less Operational expenditure	4,938
17 18	less Pass-through and recoverable costs excluding financial incentives and wash-ups	6,510
19	Operating surplus / (deficit)	9,058
20 21	less Total depreciation	3,120
22		
23 24	<i>plus</i> Total revaluations	1,245
25 26	Regulatory profit / (loss) before tax	7,183
27	less Term credit spread differential allowance	-
28 29	less Regulatory tax allowance	1,683
30 31	Regulatory profit/(loss) including financial incentives and wash-ups	5,501
32	Regulatory promy (1035) including maintain incentives and wash-ups	5,501
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34 35	Pass through costs Rates	123
36	Commerce Act levies	34
37	Industry levies	59
38	CPP specified pass through costs	
39 40	Recoverable costs excluding financial incentives and wash-ups Electricity lines service charge payable to Transpower	5,900
41	Transpower new investment contract charges	394
42	System operator services	
43 44	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	6,510
48	3(iii): Incremental Rolling Incentive Scheme	(\$000)
49 50		CY-1 CY 31 Mar 18 31 Mar 19
51	Allowed controllable opex	
52	Actual controllable opex	-
53 54	Incremental change in year	
55	incremental thange in year	
		Previous years' incremental change
56		Previous years' adjusted for incremental change inflation
57	CY-5 31 Mar 14	incremental change inflation
58	CY-4 31 Mar 15	<u> </u>
59	CY-3 31 Mar 16	
60 61	CY-2 31 Mar 17 CY-1 31 Mar 18	
62	Net incremental rolling incentive scheme	-
63 64	Net recoverable costs allowed under incremental rolling incentive scheme	
65	3(iv): Merger and Acquisition Expenditure	
70		(\$000)
66	Merger and acquisition expenditure	-
67	Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including require	d disclosures in accordance with section 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)	a and water in occordance with section 2.7;
69	3(v): Other Disclosures	
70 71	Self-insurance allowance	(\$000)



				Company Name		y Invercargill Lin	nited
		201		For Year Ended	3	1 March 2019	
	EDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWA hedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This						
m	nust provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is 12.8.	part of audited disclosure information (a	defined in section 1.4	of the ID determinatio	in), and so is subject	to the assurance rep	ort required l
on	12.8.						
	4(i): Regulatory Asset Base Value (Rolled Forward)		RAB	RAB	RAB	RAB	RAB
		for year ended	, 31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18	31 Mar 19
	Total opening RAB value		(\$000) 64,392	(\$000) 74,188	(\$000) 77,667	(\$000) 80,292	(\$000) 84,0
	less Total depreciation		2,539	2,789	2,885	2,925	3,
	plus Total revaluations		54	435	1,676	882	1,3
	plus Assets commissioned		12,354	5,869	4,103	5,907	4,5
	less Asset disposals		73	36	269	85	,
	plus Lost and found assets adjustment		L				
	plus Adjustment resulting from asset allocation						
	Total dosing RAB value		74,188	77,667	80,292	84,072	86,0
	4(ii): Unallocated Regulatory Asset Base			Unallocated	RAB *	RAB	
			•	(\$000)	(\$000)	(\$000)	(\$000)
	Total opening RAB value less				84,072		84,0
	Total depreciation				3,120		3,1
	plus						
	Total revaluations plus			L	1,245		1,2
	plus Assets commissioned (other than below)			141	Г		
	Assets acquired from a regulated supplier			141 C		i= 1	
	Assets acquired from a related party			4,533		4,533	
	Assets commissioned (ess			L	4,533		4,5
	Asset disposals (other than below)			126		126	
	Asset disposals to a regulated supplier				-	-	
	Asset disposals to a related party Asset disposals				126	-	1
				_		_	
	plus Lost and found assets adjustment			-			
	plus Adjustment resulting from asset allocation						
				_			
	Total closing RAB value			L	86,605	-	86,6
	 The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without represents the value of these assets after applying this cost allocation. Neither value includes works under construction. 	any allowance being mode for the allocation	on of costs to services pr	avided by the supplier	that are not electricity	distribution services.	The RAB valu
	representative representative and a supplying this case and cannot represent a super representation.						
	4(iii): Calculation of Revaluation Rate and Revaluation of Assets						
	CP14					-	1.4
	CPIA CPIA					-	1,0
	Revaluation rate (%)						1.4
				Unallocated	DAB *	RAB	
				(\$000)	(\$000)	(\$000)	(\$000)
	Total opening RAB value			84,072	E	84,072	
	less Opening value of fully depreciated, disposed and lost assets			158		158	
	Total opening RAB value subject to revaluation		Г	83,914	Г	83,914	
	Total revaluations				1,245		1,2
	4(iv): Roll Forward of Works Under Construction						
				Inallocated works une		Allocated works unde	
	Works under construction—preceding disclosure year plus Capital expenditure		-	4,653	883	4.652	8
	pius Capital expenditure less Assets commissioned			4,533		4,653	
	plus Adjustment resulting from asset allocation					-	
	Works under construction - current disclosure year				1,003	L	1,0
	Highest rate of capitalised finance applied					_	



							Unalloca	ted RAB *		RAB
and the second							(\$000)	(\$000)	(\$000)	(\$000)
Depreciation - standard							3,120		3,120	0
Depreciation - no standard life assets								-		-
Depreciation - modified life assets	www.maanaanaan									-
Depreciation - alternative depreciation in accord	dance with CPP									
Total depreciation								3,120		3,
: Disclosure of Changes to Depreciatio	n Profiles						(\$000	unless otherwise spo	ecified)	
									Closing RAB value	
								Depreciation	under 'non-	Closing RAB val
Asset or assets with changes to depreciation*					and the same should be dead	depreciation (text er		charge for the period (RAB)	standard' depreciation	under 'standa depreciation
Asset of assets with changes to depreciation				hea	on for non-standard	depreciation (text er	itry]	period [KAB]	depreciation	depreciation
									-	-
										-
t indude additional inset if needed										
* include additional rows if needed										
* include additional rows if needed): Disclosure by Asset Category					(\$000 unless ot)	erwise specified)				
						Distribution				
	Subtransmission	Subtransmission		Distribution and LV	Distribution and LV	Distribution substations and	Distribution	Other network	Non-network	
): Disclosure by Asset Category	lines	cables	Zone substations	Knes	Distribution and LV cables	Distribution substations and transformers	switchgear	assets	Non-network assets	Total
): Disclosure by Asset Category Total opening RAB value	lines 56	cable s 7,020	16,329	lines 2,068	Distribution and LV cables 40,961	Distribution substations and transformers 9,776	switchgear 4,606	assets 3,255		84,0
): Disclosure by Asset Category Total opening RAB value ess Total depreciation	lines 56	cables 7,020 204	16,329 557	lines 2,068 94	Distribution and LV cables 40.961 1,429	Distribution substations and transformers 9,776 411	switchgear 4,606 247	assets 3,255 177		84, 3,
: Disclosure by Asset Category Total opening RAB value ess Total depreciation to Total resultations	lines 56	cable s 7,020	16,329 557 243	lines 2,068 94 32	Distribution and LV cables 40,961 1,429 606	Distribution substations and transformers 9,776 411 144	switchgear 4,606 247 67	assets 3,255 177 48		84,/ 3, 1,
: Disclosure by Asset Category Total opening RAB value ess Total depreciation Jus Astets commissioned	lines 56 2 1	cables 7,070 204 105 -	16,329 557 243 600	lines 2,068 94 32 75	Distribution and LV cables 40,961 1,429 606 2,335	Distribution substations and transformers 9,776 411 144 534	switchgear 4,606 247 67 847	assets 3,255 177		84, 3, 1, 4,
): Disclosure by Asset Category Total opening RAB value ess Total depreciation fur Total revaluations las Assets commissioned ess Asset disposals	lines 56	cables 7,020 204	16,329 557 243	lines 2,068 94 32	Distribution and LV cables 40,961 1,429 606	Distribution substations and transformers 9,776 411 144	switchgear 4,606 247 67	assets 3,255 177 48		84, 3, 1, 4,
): Disclosure by Asset Category Total opening RAB value ess Total depreciation fas Total resultations las Assets commissioned ess Assets disposals fur tot and moutassets adjustment	lines 56 2 1	cables 7,070 204 105 -	16,329 557 243 600	lines 2,068 94 32 75	Distribution and LV cables 40,961 1,429 606 2,335	Distribution substations and transformers 9,776 411 144 534	switchgear 4,606 247 67 847	assets 3,255 177 48		84,0 3,1 1,2 4,5
): Disclosure by Asset Category Total opening RAB value ess Total depreciation far Total revaluations far Astets commissioned ess Asset disposals for tot and found assets adjustment far Adjustment evilling from asset adjocation	lines 56 2 1	cables 7,070 204 105 -	16,329 557 243 600	lines 2,068 94 32 75	Distribution and LV cables 40,961 1,429 606 2,335	Distribution substations and transformers 9,776 411 144 534	switchgear 4,606 247 67 847	assets 3,255 177 48		84,0 3,1 1,2 4,5
): Disclosure by Asset Category Total opening RAB value ess Total depreciation fas Total resultations las Assets commissioned ess Assets disposals fur tot and moutassets adjustment	lines 56 2 1 - -	cables 7,070 204 105 - -	16,329 557 243 600	Knes 2,068 94 32 25 -	Distribution and LV cables 40,961 1,429 606 2,335	Distribution substations and transformers 9,776 411 144 534	switchgear 4,606 247 67 847 69	assets 3,255 177 48		84,0 3,1 1,2 4,5 1 1 - -
): Disclosure by Asset Category Total opening RAB value ess Total depreciation far Total revaluations far Astets commissioned ess Asset disposals for tot and found assets adjustment far Adjustment evilling from asset adjocation	lines 56 2 1	cables 7,070 204 105 -	16,329 557 243 600	lines 2,068 94 32 75	Distribution and LV cables 40,961 1,429 606 2,335	Distribution substations and transformers 9,776 411 144 534	switchgear 4,606 247 67 847	assets 3,255 177 48		84,0 3,1 1,2 4,5 1 - -
Constant opening RAB value Total opening RAB value Ess Total depreciation Marco Total recalizations Marco Total recalizations Marco Total recalizations Marco Total recalizations Marco Total recalizations Marco Total recalization Marco Total re	lines 56 2 1 - - - - 54	cables 7,020 204 105 - - 6,921	16,329 557 243 600	Knes 2,068 94 32 25 -	Distribution and LV cables 40,961 1,429 606 2,335 -	Distribution substations and transformers 9,776 411 344 534 57	switchgear 4,606 247 67 847 69	assets 3,255 177 48 143 -	assets	84,0 3,1 1,2 4,5 1 - -
Constant of the second	lines 56 2 1 - -	cables 7,070 204 105 - -	16,329 557 243 600	Incs 2,068 94 32 75 - - 2,081	Distribution and LV cables 40,961 1,429 606 2,335 -	Distribution substations and transformers 9,776 411 344 534 57	switchgear 4,606 247 67 847 69	assets 3,255 177 48 143 -	assets	Total 84,0 3,1 1,2 4,55 1 - - - - - - - - - - - - -



	Company Name	Electricity Invercargill Limited
	For Year Ended	31 March 2019
CH	EDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE	
is s	chedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulato	ry profit/loss in Schedule 3 (regulatory profit)
	must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory N	
is ir	nformation 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.
ef		
1		
,	5a(i): Regulatory Tax Allowance	(\$000)
2	Regulatory profit / (loss) before tax	7,183
,		
	plus Income not included in regulatory profit / (loss) before tax but taxable	
t,	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	-
	Amortisation of initial differences in asset values	1,268
6	Amortisation of revaluations	275
i.		1,543
1		
8	less Total revaluations	1,245
1	Income included in regulatory profit / (loss) before tax but not taxable	- *
	Discretionary discounts and customer rebates	
	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	36
	Notional deductible interest	1,436
		2,716
	Regulatory taxable income	6,010
	Regulatory taxable income	6,010
	less Utilised tax losses	_
	Regulatory net taxable income	6,010
	Corporate tax rate (%)	28%
	Regulatory tax allowance	1,683
	 Workings to be provided in Schedule 14 	
	5a(ii): Disclosure of Permanent Differences	
	In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Sche	dule 5a(i).
	En (iii) A montionation of Initial Differences in Anna Malana	
	5a(iii): Amortisation of Initial Difference in Asset Values	(\$000)
		24.000
	Opening unamortised initial differences in asset values	24,099
	less Amortisation of initial differences in asset values	1,268
	plus Adjustment for unamortised initial differences in assets acquired	88
	less Adjustment for unamortised initial differences in assets disposed	
	Closing unamortised initial differences in asset values	22,743
	Opening weighted average remaining useful life of relevant assets (years)	19
	- Former and Persident and Persident and Anticipating (Acata)	15



-			
44	5a(iv):	Amortisation of Revaluations	(\$000)
45			77.250
46		Opening sum of RAB values without revaluations	77,250
		Advand Learning and	2,845
48		Adjusted depreciation	
49 50		Total depreciation	3,120 275
51		Amortisation of revaluations	2/3
52	52(1)	Reconciliation of Tax Losses	(\$000)
53	Ja(v).		(\$555)
53		Opening tax losses	
55	plus		
56	less	Utilised tax losses	
57		Closing tax losses	
			,
58	5a(vi):	Calculation of Deferred Tax Balance	(\$000)
59			
60		Opening deferred tax	(3,434)
61			
62	plus	Tax effect of adjusted depreciation	797
63	N/		
64	less	Tax effect of tax depreciation	928
65			
66	plus	Tax effect of other temporary differences *	20
67			
68	less	Tax effect of amortisation of initial differences in asset values	355
69			
70	plus	Deferred tax balance relating to assets acquired in the disclosure year	
71			
72	less	Deferred tax balance relating to assets disposed in the disclosure year	(11)
73	-1		(0)
74 75	plus	Deferred tax cost allocation adjustment	(0)]
76		Closing deferred tax	(3,889)
10			(3,883)
77			
78	5a(vii)	Disclosure of Temporary Differences	
/8	Ja(vii).	Disclosure of reliporary Differences	
79		In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).
80			
81	5a(viii)	: Regulatory Tax Asset Base Roll-Forward	
82			(\$000)
83		Opening sum of regulatory tax asset values	41,317
84	less	Tax depreciation	3,314
85	plus	Regulatory tax asset value of assets commissioned	4,697
86	less	Regulatory tax asset value of asset disposals	55
87	plus	Lost and found assets adjustment	-
88	plus	Adjustment resulting from asset allocation	-
89	plus	Other adjustments to the RAB tax value	-
90		Closing sum of regulatory tax asset values	42,645



		Company Name	Electricity Invercargill Limite	d
		For Year Ended	31 March 2019	A SA WE
CH	EDULE 5b: REPORT ON RELATED PARTY	TRANSACTIONS		
	chedule provides information on the valuation of related party			
si	nformation is part of audited disclosure information (as define	d in clause 1.4 of the ID determination), and s	o is subject to the assurance report required	by clause 2.8.
ef				
J				
	5b(i): Summary—Related Party Transaction	S	(\$000)	(\$000)
	Total regulatory income			-
	Market value of asset disposals			
	Constant Internetions and amountains		440	
	Service interruptions and emergencies Vegetation management		449	
	Routine and corrective maintenance and inspec	tion	1,033	
	Asset replacement and renewal (opex)		124	
	Network opex			1,608
	Business support		1,689	
	System operations and network support		401	
	Operational expenditure			3,698
	Consumer connection		296	
	System growth		-	
	Asset replacement and renewal (capex) Asset relocations		4,329 90	
	Quality of supply		2	
	Legislative and regulatory			
	Other reliability, safety and environment		107	
	Expenditure on non-network assets			-
	Expenditure on assets			4,824
	Cost of financing			
	Value of capital contributions			
	Value of vested assets			
	Capital Expenditure			4,824
	Total expenditure			8,521
	Other related party transactions			
	5b(iii): Total Opex and Capex Related Party	Transactions		
				Total value of
		Nature of opex or capex service		transactions
	Name of related party PowerNet Limited	provided Routine and corrective maintenance and ins		(\$000)
	PowerNet Limited	Asset replacement and renewal (opex)	pection	1,033
	PowerNet Limited	Service interruptions and emergencies		449
	PowerNet Limited	Vegetation management		1
	PowerNet Limited	System operations and network support		401
	PowerNet Limited	Business Support		1,533
	Invercargill City Holdings	Business Support		155
	PowerNet Limited	Consumer connection		296
	PowerNet Limited	Asset replacement and renewal (capex)		4,329
	PowerNet Limited	Asset relocations		90
	PowerNet Limited	Other reliability, safety and environment		107
	PowerNet Limited	Quality of supply		2
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Total value of related party transactions			8,521



Company Name Electricity Invercargill Limited For Year Ended 31 March 2019 debt) is greater than five years.		Term Credit Spread Debt issue cost Difference readiuctment	\vdash		1						
Company Name For Year Ended debt) is greater thar		Book value at date of financial statements (NZD)			1						
and non-qualifying		Book value at issue date (NZD)									
o (both qualifying debt section 2.8.		Coupon rate (%)									
or of the debt portfoli		Original tenor (in years)					Ĩ			f	1
CE average original ten subject to the assura		Pricing date						1000	47.0		
AL ALLOWANCE tements, the weighted av mination), and so is sub		Issue date									
Company Name Electric For Year Ended Electric This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.	5c(i): Qualifying Debt (may be Commission only)	Issuing party			 include additional rows if needed 	Sc(ii): Attribution of Term Credit Spread Differential	Gross term credit spread differential	Total book value of interest bearing debt	Average opening and closing RAB values	Attribution Rate (%)	Term credit spread differential allowance

		Company Name		y Invercargill Limited
		For Year Ended	3	1 March 2019
EDULE 5d: REPORT ON COST ALLOCATIONS hedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation		un Curlantan Natal (as	Indian on the laws of	of any surface if estions
neoure provides information on the allocation of operational costs. Exist must provide explanatory comment on their cost allocation formation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurat	nce report required by se	ection 2.8.	luding on the impact i	of any reclassifications.
5d(i): Operating Cost Allocations				
		Value allocated	i (\$000s)	
	Arm's length	Electricity	Non-electricity	OVABAA alloc
	deduction	distribution services dis	tribution services	Total increase (\$00
Service interruptions and emergencies Directly attributable		449		
Not directly attributable	+	+		*
Total attributable to regulated service		449		
Vegetation management Directly attributable		1		
Not directly attributable	-	2	14	2
Total attributable to regulated service	8	1		
Routine and corrective maintenance and inspection Directly attributable		1.033		
Not directly attributable	-	1,033		-
Total attributable to regulated service		1,033		
Asset replacement and renewal		1		
Directly attributable Not directly attributable	-	124	-	- 1
Total attributable to regulated service		124		
System operations and network support				
Directly attributable Not directly attributable		1,084		- 1
Total attributable to regulated service	-	1,084		
Business support		10A		
Directly attributable Not directly attributable	-	1,836	28	438
Total attributable to regulated service	-	2,246	28	438
Operating costs directly attributable Operating costs not directly attributable	-	4,528	28	438
Operational expenditure		4,938		
5d(ii): Other Cost Allocations				
Pass through and recoverable costs Pass through costs		(\$000)		
Directly attributable		216		
Not directly attributable		-		
Total attributable to regulated service		216		
Recoverable costs Directly attributable		6,294		
Not directly attributable		-		
Total attributable to regulated service		6,294		
5d(iii): Changes in Cost Allocations* †				
Change in cost allocation 1			(\$000) CY-1 C	urrent Year (CY)
Cost category		Original allocation	-	
Original allocator or line items		New allocation		
New allocator or line items		Difference	-	-
Rationale for change				
			(\$000)	
Change in cost allocation 2				urrent Year (CY)
Cost category Original allocator or line items		Original allocation New allocation		
New allocator or line items		Difference	-	
Rationale for change				
			(\$000)	in the left
		ta sector sector and the	CY-1 Ct	urrent Year (CY)
Change in cost allocation 3 Cost category		Original allocation		
Cost category Original allocator or line items		Original allocation New allocation	-	-
Cost category			-	-
Cost category Original allocator or line items New allocator or line items		New allocation	-	
Cost category Original allocator or line items		New allocation	-	-



			Company Name For Year Ended		nvercargill Limited March 2019
сн	EDULE 5e: REPORT ON ASSET ALLOC	ATIONS		SS STRUCTURE	19 (FE) - A 19 (FE)
		ues. This information supports the calculation of the RAB in Schedule 14 (Mandatory Explanatory Notes), including		in asset allocations. This inf	formation is part of audited disclosur
		nd so is subject to the assurance report required by section			
f					
	5e(i): Regulated Service Asset Values				
				lue allocated (\$000s) ectricity distribution	
				services	
	Subtransmission lines		_	54	
	Directly attributable Not directly attributable			54	
	Total attributable to regulated service			54	
	Subtransmission cables			6.021	
	Directly attributable Not directly attributable			6,921	
	Total attributable to regulated service			6,921	
	Zone substations				
	Directly attributable Not directly attributable			16,615	
	Total attributable to regulated service			16,615	
	Distribution and LV lines				
	Directly attributable Not directly attributable			2,081	
	Total attributable to regulated service			2,081	
	Distribution and LV cables				
	Directly attributable Not directly attributable		-	42,473	
	Total attributable to regulated service			42,473	
	Distribution substations and transform	ers			
	Directly attributable			9,986	
	Not directly attributable Total attributable to regulated service		_	9,986	
	Distribution switchgear				
	Directly attributable			5,205	
	Not directly attributable Total attributable to regulated service		_	5,205	
	Other network assets			5,205	
	Directly attributable			3,269	
	Not directly attributable Total attributable to regulated service		_	3,269	
	Non-network assets			5,205	
	Directly attributable				
	Not directly attributable Total attributable to regulated service		_		
	Total attributable to regulated service				
	Regulated service asset value directly attributable		_	86,605	
	Regulated service asset value not directly attribut Total closing RAB value	able		86,605	
	5e(ii): Changes in Asset Allocations* †				
	Se(ii). changes in Asset Anotations				(\$000)
	Change in asset value allocation 1				CY-1 Current Year (CY)
	Asset category Original allocator or line items			riginal allocation ew allocation	
	New allocator or line items			ifference	
	Rationale for change				
	Change in asset value allocation 2				(\$000) CY-1 Current Year (CY)
	Asset category		o	riginal allocation	CY-1 Current Year (CY)
	Original allocator or line items			ew allocation	
	New allocator or line items		• D	ifference	
	Rationale for change				
					(\$000)
	Change in asset value allocation 3				CY-1 Current Year (CY)
	Asset category			riginal allocation	
	Original allocator or line items New allocator or line items			ew allocation	
		1		an a	
	Rationale for change				

							Company Name	Electri	city Invercargill 31 March 2019	
JLE 5f: REPORT SUPPORTING COST ALLOCATI	ONS						For Year Ended		51 March 2019	
le requires additional detail on the asset allocation methodology appl		at are not directly att	ributable, to support	the information prov	ided in Schedule 5d (Costallocations). Th	is schedule is not req	uired to be publicly	disclosed, but must	be disclos
n. sation is part of audited disclosure information (as defined in section 1	4 of the ID determination), and	so is subject to the as	surance report requi	red by section 2.8.						
		1		1						-
				Allecator	Metric (%)		Value alloca	ted (\$000)		4
	Allocation			Electricity distribution	Non-electricity distribution	Arm's length	Electricity distribution	Non-electricity distribution		OVABAA
Line Rem*	methodology type	Cost allocator	Allocator type	services	services	deduction	services	services	Tetal	(\$1
and the interruptions and emergencies		1	1							
					1					-
Not directly attributable										
/egetation management										
Not directly attributable										
toutine and corrective maintenance and inspection			1							
Not directly attributable		1	J							-
Asset replacement and renewal									11	
									1	
									-	
· · · · · · · · · · · · · · · · · · ·							a			
Not directly attributable										
ystem operations and network support		1	E							
Not directly attributable										
usiness support							1			
Administration Expenses	ABAA	Revenue	Fronz	93.67%	6.13%		410	28	435	
Not directly attributable			10				410	28	438	
Operating costs not directly attributable							410	28	438	
ass through and recoverable costs										
Pass through costs										
Not directly attributable										
Recoverable costs										
										1

navu	n is part of audited disclosure information (as defined in section 1.4 of t	he ID determination), and so is	s subject to the assi	urance report require	d by section 2.8.						
			-								1
					Allocator	Metric (%)	_	Value alloc	ated (\$000)		4
	New York Control of Co	Allocation			Electricity distribution	Non-electricity distribution	Arm's length	Electricity distribution	Non-electricity distribution		OVABAA a
a l	Line Rem*	methodology type	Allocator	Allocator type	services	sarvicas	deduction	services	services	Tetal	Increase
Subt	ransmission lines			1		1					-
N	ot directly attributable	-					-				-
	ransmission cables										
Subt											-
											-
											-
N	ot directly attributable										
Zone	substations										
								-			-
N	ot directly attributable										-
Distr	ibution and LV lines			14 F							
											-
			· · · · · · · · · · · · · · · · · · ·								
	st directly attributable						8				
Distr	bution and LV cables										1
							(m. 1			N	
N	ot directly attributable										1
Distr	ibution substations and transformers										
											-
											-
N	ot directly attributable										
Distr	bution switchgear										-
		_									
											-
	t directly attributable										1
Othe	r network assets			r 1			1				1
											-
1										_	-
	t directly attributable										4
von-	network assets	r									T
		1									-
	t directly attributable										-

INFORMATION DISCLOSURE

	Comp	any Name Electricity Invercargill Limited
	For Y	ear Ended 31 March 2019
IEDL	JLE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEA	AR
chedu	le requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any asse	ts in respect of which capital contributions are received, but
	ssets that are vested assets. Information on expenditure on assets must be provided on an accounting accrua	
	provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates	
nforma	ation is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is s	ubject to the assurance report required by section 2.8.
62	(i): Expenditure on Assets	(\$000) (\$000)
ou		
	Consumer connection	2
	System growth Asset replacement and renewal	
	Asset repracement and renewal Asset relocations	4,3
	Reliability, safety and environment:	
	Quality of supply	2
	Legislative and regulatory	
	Other reliability, safety and environment	107
	Total reliability, safety and environment	107
	Expenditure on network assets	4,8
	Expenditure on non-network assets	
	Expenditure on assets	4,8
p	lus Cost of financing	
	less Value of capital contributions	1
p	lus Value of vested assets	
10		
	Capital expenditure	4,6
6a((ii): Subcomponents of Expenditure on Assets (where known)	(\$000)
	Energy efficiency and demand side management, reduction of energy losses	
	Overhead to underground conversion	
	Research and development	
6a((iii): Consumer Connection	
	Consumer types defined by EDB*	(\$000) (\$000)
	20403 - Customer Connections < 20 kVA	53
	20404 - Customer Connections 21 - 99 kVA	70
	20405 - Customer Connections > 100 kVA	165
	20402 - New Subdivisions	8
	* industry additional securit and ad	
	* include additional rows if needed Consumer connection expenditure	2
	consumer connection expenditure	2
le	ess Capital contributions funding consumer connection expenditure	103
	Consumer connection less capital contributions	1
6a((iv): System Growth and Asset Replacement and Renewal	Asset Replaceme
		System Growth and Renewal
		(\$000) (\$000)
	Subtransmission	
	Zone substations	- 3
	Distribution and LV lines	
	Distribution and LV cables	
	Distribution substations and transformers	- 3,1
	Distribution switchgear Other network assets	- 7
In	System growth and asset replacement and renewal expenditure Capital contributions funding system growth and asset replacement and renewal	- 4,3
ie	System growth and asset replacement and renewal System growth and asset replacement and renewal	- 4,3
	e service and and a service representation and remained a tapical contributions	- 4,3
6a(v): Asset Relocations	
	Project or programme*	(\$000) (\$000)
	20478 - Asset Relocation Projects - Distribution	90
	* include additional rows if needed	·
	All other projects or programmes - asset relocations	
	Asset relocations expenditure	
le	capital contributions funding asset relocations	47

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68		
00		
69	6a(vi): Quality of Supply	
70		(\$000) (\$000)
71		2
73		
74		
75		
76		
78		2
79		-
80	Quality of supply less capital contributions	2
	6a(vii): Legislative and Regulatory	
81 82		(\$000) (\$000)
83		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
84		
85		
86		
87 88		
89		
90		-
91		-
92	Legislative and regulatory less capital contributions	
93	6a(viii): Other Reliability, Safety and Environment	
94		(\$000) (\$000)
95		63
96 97	20459 - Neutral Earth Resistor Protection Upgrade	
98		
99		
100	• include additional rows if needed	
101 102	All other projects or programmes - other reliability, safety and environment Other reliability, safety and environment expenditure	107
103	less Capital contributions funding other reliability, safety and environment	-
104	Other reliability, safety and environment less capital contributions	107
105		
106	6a(ix): Non-Network Assets	
107	Routine expenditure	
108	Project or programme*	(\$000) (\$000)
109 110		
111		
112		
113		
114 115	* include additional rows if needed	
115	All other projects or programmes - routine expenditure Routine expenditure	
	Atypical expenditure	
117 118	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	Atypical expenditure	
127 128	Expenditure on non-network assets	



INFORMATION DISCLOSURE

1.75		
120	Company Nam	e Electricity Invercargill Limited
1	For Year Ende	d 31 March 2019
SC	HEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR	
This EDB: expe	s schedule requires a breakdown of operational expenditure incurred in the disclosure year. Is must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory co enditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insuranc i information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report r	e.
sch rej	,	
7	6b(i): Operational Expenditure	(\$000) (\$000)
8	Service interruptions and emergencies	449
9	Vegetation management	1
10	Routine and corrective maintenance and inspection	1,033
11	Asset replacement and renewal	124
12	Network opex	1,608
13	System operations and network support	1,084
14	Business support	2,246
15	Non-network opex	3,330
16 17	Operational expenditure	4,938
18	6b(ii): Subcomponents of Operational Expenditure (where known)	
19	Energy efficiency and demand side management, reduction of energy losses	125
20	Direct billing*	
21	Research and development	
22	Insurance	127
23	 Direct billing expenditure by suppliers that directly bill the majority of their consumers 	

19 of 49 **PWC**

		ity Invercargill Li	mited
For Year Ended		31 March 2019	
HEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDIT schedule compares actual revenue and expenditure to the previous forecasts that were made for the cast revenue and expenditure information from previous disclosures to be inserted.		cordingly, this sched	ule requires the
s must provide explanatory comment on the variance between actual and target revenue and forecas es). This information is part of the audited disclosure information (as defined in section 1.4 of the ID ired by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need	determination), and	d so is subject to the	assurance report
7(i): Revenue	Target (\$000) 1	Actual (\$000)	% variance
Line charge revenue	20,559	20,545	(0%
7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
Consumer connection	526	296	(44%
System growth	520	250	(44/
Asset replacement and renewal	4,447	4,329	(3%
Asset relocations	26	90	2469
Reliability, safety and environment:	20	50	240.
Quality of supply	68	2	(98)
Legislative and regulatory	-		(58)
Other reliability, safety and environment	103	107	4
Total reliability, safety and environment	171	109	(37
Expenditure on network assets	5,170	4,824	(7
Expenditure on non-network assets	-	4,024	
Expenditure on assets	5,170	4,824	(7)
7(iii): Operational Expenditure			
Service interruptions and emergencies	492	449	(9
Vegetation management	492	1	(47
Routine and corrective maintenance and inspection	1.051	1,033	
Asset replacement and renewal	211	1,033	(2
Network opex	1,756	1,608	(41
	1,244	1,084	(13
System operations and network support Business support	2,278	2,246	(13
Non-network opex	3,522	3,330	(1
Operational expenditure	5,278	4,938	(6
7(iv): Subcomponents of Expenditure on Assets (where known)			
Energy efficiency and demand side management, reduction of energy losses	- 1		115
Overhead to underground conversion	20		(100
Research and development	20		(100
7(v): Subcomponents of Operational Expenditure (where known)			
Energy efficiency and demand side management, reduction of energy losses	125	125	<u></u>
Direct billing	-	-	_
Research and development	-	-	_
Insurance	109	127	17
	105	147	1/
1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of the	his determination		
1 right the nothing output to the live of the disclosure year disclosed under clause 2.4.3(3) of th			



or price Communer type or types (et 3tandard or non-standard for non-standard or non-standard or non-standard or non-standard for non-standard		
er pile Comuner type et types (e. Standard er nonstandard Arenze no. al (KF) in Energy delivered to (KP) in reidential, commercial etc.) consumer group (specify) disclosure year (ANON) in the idential of the standard etc.) (and the standard etc.) (and the idential of the standard etc.) (and the idential of the iden	Bild Quantities by price component Variable day Privers suits energy purchates	
Residenti Sandard \$,3,7] Residenti Sandard \$,4,1] Residential Sandard \$,4,1] Commercial Sandard \$,13] Commercial Sandard \$,13]	100h Kah	Add extra columns for additional billed quantities by price component as
Sandard 9,413 Sandard 1,958 on an an 1,958	28 930 129	necessary
Commercal Standard 1.958	71.564.838	T
Commenter of the second s	41,545,895	
tour committee	6.137.341	T
individual half hour commercial Standard 127 65,035	47,669,286	Т
		П
		Т
		Т
		T
Add extra row for additional conturner groups or price carboay codes as necessary		
Standard consumer totals 13,420 254,260	47,669,286 149,988,303	
Newstandard consumer totals	aff contact to a second test	r.r

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INFORMATION DISCLOSURE

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Notional revenue foregone from posted discounts (if applicable)	otal line charge revenue i disciosure year	Standard or non-standard Total line charge revenue in consumer group (specify) disclosure year
3	EES,ES	Standard \$3,53
	\$8,592	
	\$5,017	Standard \$5,017
	\$513	Standard \$513
	\$2,890	Standard \$2,890
	T	T
	*	1
	1	1
	12	10 10 10 10 10 10 10 10 10 10 10 10 10 1
		-
		Add extra rows for additional consumer groups at price category codes as necessary
	\$20,545	201
	Ŧ	Non-standard consumer totals
	\$20,545	Total for all consumers \$20,545

					Company Name For Year Ended		ity Invercargill Li 31 March 2019	mited
			Net	twork / su	b-network Name			
		ACCET DECISTED				THE SECTOR	States and states	
-		a: ASSET REGISTER						
5 5	chedule requi	res a summary of the quantity of as:	sets that make up the network, by asset category and asset class. All units rel	ating to cab	ole and line assets, th	at are expressed in	km, refer to circuit ler	igths.
ef								
					Items at start of	Items at end of		Data accura
8	Voltage	Asset category	Asset class	Units	year (quantity)	year (quantity)	Net change	(1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.	666	721	55	3
0	All	Overhead Line	Wood poles	No.	278	225	(53)	3
1	All	Overhead Line	Other pole types	No.		-	:*:	N/A
2	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	1	1	-	4
3	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-		-	N/A
4	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	15	15	(0)	4
5	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	12	12	0	4
5	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km		-	5	N/A
7	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km		-	-	N/A
8	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km				N/A
9	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km		-	-	N/A
0	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km		-		N/A
1	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km		-	_	N/A
2	HV	Subtransmission Cable	Subtransmission submarine cable	km		-		N/A
3	HV	Zone substation Buildings	Zone substations up to 65kV	No.	5	5	- 1	4
4	HV	Zone substation Buildings	Zone substations 110kV+	No.		-	-	N/A
5	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.			100 - 10 - 20 - 10 - 10 - 10 - 10 - 10 -	N/A
5	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	_	N/A
	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	2	2		4
5	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	16	16	-	4
	HV	Zone substation switchgear	33kV Switch (Pole Mounted) 33kV RMU	No.	16	16	-	4
0	HV			222900	5	- 5	-	4
		Zone substation switchgear	22/33kV CB (Indoor)	No.	2	5		4
1	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.			-	
2	HV	Zone substation switchgear	3.3/6.5/11/22kV CB (ground mounted)	No.	30	50	20	4
	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
4	HV	Zone Substation Transformer	Zone Substation Transformers	No.	6	6	-	4
5	HV	Distribution Line	Distribution OH Open Wire Conductor	km	23	23	0	3
6	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-		-	N/A
7	HV	Distribution Line	SWER conductor	km			-	N/A
8	HV	Distribution Cable	Distribution UG XLPE or PVC	km	55	54	(0)	3
9	HV	Distribution Cable	Distribution UG PILC	km	99	99	(0)	3
0	HV	Distribution Cable	Distribution Submarine Cable	km			-	N/A
1	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	2	2	-	4
2	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	47	61	14	4
3	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	61	50	(11)	3
	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.			-	N/A
5	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	457	456	(1)	4
	HV	Distribution Transformer	Pole Mounted Transformer	No.	11	10	(1)	4
	HV	Distribution Transformer	Ground Mounted Transformer	No.	431	429	(2)	4
3	HV	Distribution Transformer	Voltage regulators	No.	-	-		N/A
	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	43	43	N/A
	LV	LV Line	LV OH Conductor	km	30	30	(0)	3
	LV	LV Cable	LV UG Cable	km	422	423	1	з
	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	167	167	(0)	3
	LV	Connections	OH/UG consumer service connections	No.	17,805	17,840	35	3
	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	17,005	167	12	4
	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	133	107	12	4
	All	Capacitor Banks	Capacitors including controls	No	-	4		N/A
	All	Load Control	Centralised plant	Lot	1	-		4
	All	Load Control	Relays	No	1	1	-	4 N/A
				a state of the sta	-	-	-	
	All	Civils	Cable Tunnels	km	π			N/A

	SCHEDULE 9h: ASSET AGE DROELLE														Netw	For Year Ended Network / Sub-network Name	For Vear Ended network Name				31 M	31 March 2019			
ALLE OL. A																									
Mersders .	summary of the age prefile (based on y	activity of an and a structure of the structure of	tory and accet class. All units relating to c	shie and line as a	ets, that are expre	used in Im, refe.	r to circuit length															1			
Die	Disdosure Year (year an ded)	31 March 2019				ł	imber of assets a	thumber of assets at distance year and by installation dat	nd by installation	440															
Voltage Asse	Asset category	Acart dans	0761 0561 0561-000	0761 0361	1980	1990																	No.with	Remark and of year	No. with default Data accuracy
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g ([petilnssa	1	1	7				1	19	2						-			,					
Sub					1	-			-	1.00	4	*			×					1				,	+
Sub		cable	1			1	11	It			1														
204		Zone substations up to 668V No.	1	1	1		-						21					2							1
20H			-	10	1	1	-		1			0			1									1	1
204				-		-		-			2			2	2								-	·	1
Zon			0	1	-				-				+			1				1					
Loz		17	-	-		1				2	2	SR SR			39			1							
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Den	Distribution Cable	Distribution Submarine Cable	3	1		,		,					+	F						-	4		4	33	-
Ditt	Distribution switchgess	and) - reclosers and sectionalisers		1															-	-	1	-	1	•	
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tost												ſ	+				1	1					4	-	-
Civite																									
		Cable Turneds km		-	-	1	-													-			1	1	1

	Company Nar	ne Electri	city Invercargill I	imited
	For Year End		31 March 2019	
	Network / Sub-network Nar			
cur	DULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			Station State
	nedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela	ting to cable and line as	sets, that are expres	ed in km, refer to
rcuit	engths.			
ref				
9				
9				Total circuit lengtl
0	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	(km)
1	>66kV		(-
z	50kV & 66kV			-
3	33kV	1	26	21
4	SWER (all SWER voltages)			
5	22kV (other than SWER)	231	1	-
6	6.6kV to 11kV (inclusive—other than SWER)	23	155	17
7	Low voltage (< 1kV)	30	423	45
8	Total circuit length (for supply)	54	604	65
9				
0	Dedicated street lighting circuit length (km)	25	142	16
1	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			-
2				
3	Overhead circuit length by terrain (at year end)		(% of total	
4	Urban	Circuit length (km)	overhead length)	
5	Rural	50	94%	
5	Remote only	-	370	
7	Rugged only	2	- 3%	
3	Remote and rugged	-	3%	
9	Unallocated overhead lines		-	
0	Total overhead length	54	100%	
íl –	rota overneau rengin		100%	
			(% of total circuit	
2		Circuit length (km)	length)	
3	Length of circuit within 10km of coastline or geothermal areas (where known)	658	100%	
			(% of total	
2		Circuit length (km)	overhead length)	
	Overhead circuit requiring vegetation management	4	7%	

	Company Name	Electricity Invercargill Limited		
	For Year Ended	31 March 2019		
E 9d: REPORT ON EMBEDDED NETWORKS equires information concerning embedded networks owned by an EDB that are e	mbedded in another EDB's network or in another embedde	d network.		
Location *		Line charge rever Number of ICPs served (\$000)		
Loation				

180		
	Company Name	Electricity Invercargill Limited
	For Year Ended	31 March 2019
	Network / Sub-network Name	
SC	CHEDULE 9e: REPORT ON NETWORK DEMAND	
	s schedule requires a summary of the key measures of network utilisation for the disclosure year (number of net	w connections including
	tributed generation, peak demand and electricity volumes conveyed).	
sch re	the second second test	
8	9e(i): Consumer Connections	
9	Number of ICPs connected in year by consumer type	
10		Number of
10 11	Consumer types defined by EDB* Domestic	connections (ICPs) 46
12	Low User	46
13	Non Domestic	12
14	Individual half hour	
15		
16	* include additional rows if needed	
17	Connections total	62
18	Distriction of an exception	
19	Distributed generation	
20 21	Number of connections made in year	12 connections 0.05 MVA
21	Capacity of distributed generation installed in year	0.05
22	9e(ii): System Demand	
23		
24		Demand at time of
		maximum
		coincident demand
25	Maximum coincident system demand	(MW)
26	GXP demand	61
27	plus Distributed generation output at HV and above	
28	Maximum coincident system demand	61
29	less Net transfers to (from) other EDBs at HV and above	(2)
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)
36	Electricity entering system for supply to consumers' connection points	267
37	less Total energy delivered to ICPs	254
38 39	Electricity losses (loss ratio)	13 4.9%
40	Load factor	0.48
41	9e(iii): Transformer Capacity	
42		(MVA)
43	Distribution transformer capacity (EDB owned)	149
44	Distribution transformer capacity (Non-EDB owned, estimated)	2
45	Total distribution transformer capacity	150
46		
47	Zone substation transformer capacity	82
47	Zone substation transformer capacity	82

		Company Name Electricity Invercargill Limited
		For Year Ended 31 March 2019
		Network / Sub-network Name
сн	EDULE 10: REPORT ON NETWORK RELIABILITY	
	chedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIF	
	rk reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI ar determination), and so is subject to the assurance report required by section 2.8.	nd SAIDI information is part of audited disclosure information (as defined in section 1.4
	determination, and so is subject to the assurance report required by section 2.6.	
ef		
	10(i): Interruptions	
		Number of
	Interruptions by class	interruptions
2	Class A (planned interruptions by Transpower)	
	Class B (planned interruptions on the network) Class C (unplanned interruptions on the network)	8
	Class D (unplanned interruptions by Transpower)	-
	Class E (unplanned interruptions of EDB owned generation)	-
	Class F (unplanned interruptions of generation owned by others)	
	Class G (unplanned interruptions caused by another disclosing entity)	3
	Class H (planned interruptions caused by another disclosing entity)	
	Class I (interruptions caused by parties not included above) Total	30
	TOTAL.	
	Interruption restoration	≤3Hrs >3hrs
	Class C interruptions restored within	15 4
	SAIFI and SAIDI by class	SAIFI SAIDI
	Class A (planned interruptions by Transpower)	
	Class B (planned interruptions on the network)	0.02 3.4
	Class C (unplanned interruptions on the network)	0.31 18.2
	Class D (unplanned interruptions by Transpower) Class E (unplanned interruptions of EDB owned generation)	
	Class F (unplanned interruptions of EDB owned generation) Class F (unplanned interruptions of generation owned by others)	
	Class G (unplanned interruptions caused by another disclosing entity)	0.37 20.8
	Class H (planned interruptions caused by another disclosing entity)	
	Class I (interruptions caused by parties not included above)	
	Total	0.70 42.4
	Normalised SAIFI and SAIDI	Normalised SAIFI Normalised SAIDI
	Classes B & C (interruptions on the network)	0.33 21.6
	10(ii): Class C Interruptions and Duration by Cause	
	Cause	SAIFI SAIDI
	Lightning	
	Vegetation	
	Adverse weather Adverse environment	
	Third party interference	0.07 4.4
	Wildlife	
	Human error	0.02 0.5
	Defective equipment	0.23 13.3
	Cause unknown	
	10(iii): Class B Interruptions and Duration by Main Equipment In	volved
	Main equipment involved	SAIFI SAIDI
	Subtransmission lines	
	Subtransmission cables	
	Subtransmission other Distribution lines (excluding LV)	0.02 2.7
	Distribution rables (excluding LV)	0.02 2.7
	Distribution other (excluding LV)	0.00 0.6
	10(iv): Class C Interruptions and Duration by Main Equipment Inv	volved
	Main equipment involved	SAIFI SAIDI
	Subtransmission lines	
	Subtransmission cables Subtransmission other	
	Subtransmission other Distribution lines (excluding LV)	0.02 2.6
	Distribution cables (excluding LV)	0.21 10.3
	Distribution other (excluding LV)	0.08 5.3
	10(v): Fault Rate	
		Fault rate (fault
	Main equipment involved	Number of Faults Circuit length (km) per 100km)
	Subtransmission lines Subtransmission cables	- 1 -
	Subtransmission cables Subtransmission other	- 26 -
	Distribution lines (excluding LV)	8 23 35.2
	Distribution cables (excluding LV)	6 155 3.8
		6 155 3.8 5 19

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 6.29% which is above the 75th percentile estimate of post-tax WACC of 5.43% and a 6.8% vanilla WACC which is above with the 75th percentile estimate of vanilla WACC of 5.94%.

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 \$62k for line charges to another lines company.

No items were reclassified in the disclosure year.

- Merger and acquisition expenses (3(iv) of Schedule 3)
- 6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
 - 6.1 information on reclassified items in accordance with subclause 2.7.1(2)

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6.2 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 2018 closing figure of \$84,072k as a starting point with inflationary indexing over the year to 31 March 2019 plus additions less disposals. This resulted in a closing RAB balance of \$86,605k.

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 \$36k cost of easements which is a tax deductible expense.

Income included in regulatory profit / (loss) before tax but not taxable is the \$1,245k revaluations for the year

There are no other permanent differences.

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

Box 6: Temporary differences / 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.

\$ 71
\$ 71
28%
\$ 20
\$ \$ \$

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 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-
 - 12.1 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).

INFORMATION DISCLOSURE

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.

The actual expenditure on network assets was 7% below budget.

Consumer connection:

 Net 44% variance was lower than forecast due to customer delays impacting construction start. This timing difference was reforecast as part of the 2019/20 AMP, and will show in the 2019/20 spend.

System Growth:

• No spend in this category for FY18/19

Asset replacement and renewal:

• Net 3% underspend due to due to field staff vacancies

Asset Relocations:

 246% overspend due to: budget line error showing net of customer contributions; significant costs due to archeological finds during excavations

Quality of Supply:

• 98% underspend due to less customer initiated investigations within the year.

Reliability, Safety and Environment:

• 4% overspend due to neutral earth resistor protection communications costs over budget, offset by lower pillar box lid upgrades

Operational Expenditure:

Network opex was 8% below budget.

Service interruptions and emergencies:

• 9% underspend due to less number of faults than long term average.

Vegetation management:

• Small reactive budget, went largely unspent.

Routine and corrective maintenance and inspection:

• 2% underspend due to less corrective maintenance.

Asset replacement and renewal:

• 41% underspend due to field staff vacancies.

System Operations and Network Support:

• 13% underspend due to the Insurance Captive which was budgeted to be operational during the year but not yet operational.

Business Support: Within 1% of budget

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- 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 2019:

- Target revenue for the 2018-19 year was \$20,559k. The total billed revenue for the 2018-19 year was \$20,545k, which is \$14k below.
- Fixed charge revenue was down due to a migration of residential customers to the low fixed charge option. A warm end to winter impacted on energy consumption resulting in variable charges being below budget for the year
- 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.

INFORMATION DISCLOSURE

Box 13: Commentary on network reliability for the disclosure year

The SAIDI assessed value for 2018/19 at 17.98, was below the applicable Commerce Commission Limit of 31.13, and below the Commerce Commission target level of 24.08.

The SAIFI assessed value for 2018/19 at 0.31 was well below the applicable Commerce Commission Limit of 0.77, and below the Commerce Commission target level of 0.59.

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 21.6 and normalised SAIFI at 0.33 for 2018/19.

2018/19 SAIDI and SAIFI were on par with the expected long term averages. Outages for 2018/19 were characterised by:

- high customer numbers impacted for third-party caused incidents
- high customer numbers impacted for cable failure events

The information has been prepared on a basis consistent with the previous year's disclosure and has not recorded successive 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.

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

Disclosure of amendment to previously disclosed information

No amendments were disclosed.

INFORMATION DISCLOSURE

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 Budget Economic and Fiscal Update report released in December 2016:

	2019	2020	2021	2022	2023
Inflator (CAPEX & OPEX)	1.9%	2.1%	2.2%	2.2%	2.0%

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

Schedule 15 Voluntary Explanatory Notes

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

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

Box 1: Voluntary explanatory comment on disclosed information

Schedule 10 - The information has been prepared on a basis consistent with the previous year's disclosure and has not recorded successive interruptions. Schedule 10 will be reviewed to be in line with the determination in future years.

The SAIDI assessed value for 2018/19 at 17.98, was below the applicable Commerce Commission Limit of 31.13, and below the Commerce Commission target level of 24.08.

The SAIFI assessed value for 2018/19 at 0.31 was well below the applicable Commerce Commission Limit of 0.77, and below the Commerce Commission target level of 0.59.

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 21.6 and normalised SAIFI at 0.33 for 2018/19.

2018/19 SAIDI and SAIFI were on par with the expected long term averages. Outages for 2018/19 were characterised by:

- high customer numbers impacted for third-party caused incidents
- high customer numbers impacted for cable failure events

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.

4. APPENDIX - Related Party Transaction: Additional Information Disclosure

4.1 INTRODUCTION

For the purpose of meeting the 2019 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 2019 Information Disclosure, for the year ended 31 March 2019 - 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 by a related party on the Electricity Invercargill Limited's (EIL) network assets being less than \$20 million, for the year ending 31 March 2019.

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.

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 has an interest in PowerNet Central Limited.

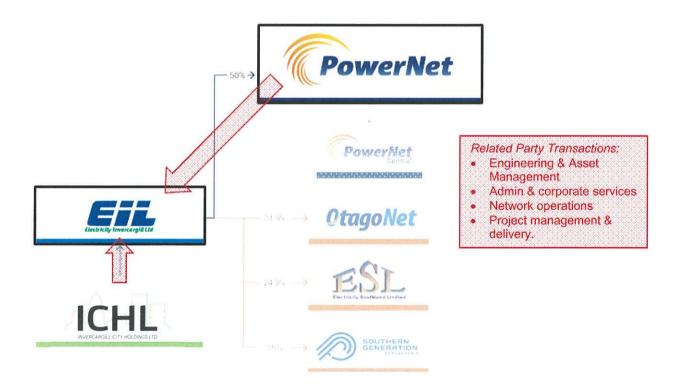
During the year ending 31 March 2019, EIL had related party transactions with the following entities:

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

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



a. PowerNet Limited

EIL holds a 50% shareholding in electricity network management company PowerNet Limited. 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 2019 is categorised as follows:

		(\$'000)
Ope	rating Expenditure:	
i.	Service interruptions and emergencies	449
ii.	Vegetation management	1
iii.	Routine and corrective maintenance and inspection	1,033
iv.	Asset replacement and renewal (opex)	124
٧.	System operations and network support	401
vi.	Business support	1,533
Сар	ital Expenditure:	
vii.	Consumer connection	297
viii.	System growth	=
ix.	Asset replacement and renewal (capex)	4,329
х.	Asset relocations	90
xi.	Quality of supply	2
xii.	Other reliability, safety and environment	107
Total Related Party expenditure from PowerNet 8,366		

In the year to 31 March 2019, PowerNet provided 100% of the EIL Lines Business Capital Expenditure, and 72% 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

PowerNet holds 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.

pw

(\$'000)

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 2019 is categorised as follows:

Operating Expenditure:

	Pusinese support	455
1.	Business support	155
Total Related Party expenditure from ICHL		155

In the year to 31 March 2019, ICHL provided 6.9% of all Operating Expenditure relating to management fees.

c. OtagoNet Joint Venture

EIL has a 24.9% ownership interest in the OtagoNet electricity distribution network (OJV), based in coastland and inland Otago, via a joint venture arrangement with The Power Company Limited (TPCL).

There were no related party transactions between OJV and EIL during the reporting period.

d. Electricity Southland Limited

EIL has a 24.9% ownership interest in the Electricity Southland Ltd (ESL) electricity distribution network, based in Central Otago. The ESL network is consolidated within the OtagoNet JV network for regulatory reporting purposes.

There only related party transactions between ESL and EIL during this period was the interest charged on Loans advanced to ESL form EIL during the reporting period.

e. Southern Generation Limited Partnership

EIL has 25% ownership interest in Southern Generation Limited Partnership, investing in wind and hydro electricity generation – clean, green renewable energies that fit with EIL's other strategies.

There were no related party transactions between SGLP and EIL during the reporting period.

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



INFORMATION DISCLOSURE

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 out 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

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 on the same internal rates as charged to the EDB customers;
- Large percentage of Works Programme costs charged to EIL (almost 50% 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.





Independent Assurance Report

To the Directors of Electricity Invercargill Limited and the Commerce Commission

Assurance Report Pursuant to Electricity Distribution Information Disclosure Determination 2012

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 ('the Information Disclosure Determination') for the disclosure year ended 31 March 2019, has been prepared, in all material respects, in accordance with the Information Disclosure Determination.
- The disclosure information required to be reported by the Company, and audited by the Auditor-General, under the Information Disclosure Determination is in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, the disclosure that shows the connection between the Company and the related parties with which it has had related party transactions in the disclosure year, the disclosures about related party transactions required under clause 2.3.12 of the Information Disclosure Determination, 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 2019, has been prepared, in all material respects, in accordance with clause 2.3.6 of the Information Disclosure Determination, 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 matters 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;
- 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 Company has complied, in all material respects, with the Information Disclosure Determination in preparing the Disclosure Information; and
- The basis for valuation of related-party transactions complies, in all material respects, with the Information Disclosure Determination and the Input Methodologies Determination.

PricewaterhouseCoopers

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Basis for Qualified Opinion

The information provided by the Company to support the arm's length valuation for certain related party expenditures could not be verified against independent objective measures. Sufficient appropriate audit evidence could therefore not be obtained to conclude on whether the basis for valuation of these related party expenditures complies, in all material respects, with the Information Disclosure Determination and Input Methodologies Determination. This limitation in evidence is in respect of the related party expenditure amounts included in schedule 5b of the Disclosure Information:

- Operating expenditure of \$187,000
- Capital expenditure of \$612,000

Consequently, we were unable to determine whether any adjustments to these amounts would be necessary to ensure compliance with the Information Disclosure Determination and Input Methodologies Determination.

We conducted our engagement in accordance with ISAE (NZ) 3000 (Revised), Assurance Engagements Other than Audits or Reviews of Historical Financial Information and SAE 3100 (Revised) *Compliance Engagements* to obtain reasonable assurance that the Company has complied in all material respects with the Information Disclosures Determination and Input Methodologies Determination in the preparation of the Schedules for the year ended 31 March 2019.

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 Related Party Transaction Information, whether due to fraud or error or non-compliance with the Information Disclosure Determination 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 Related Party Transaction Information 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.

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.

Scope and inherent limitations

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

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

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



Key Assurance Matters

Key assurance matters are those matters that, in our professional judgement, required significant attention when carrying out the assurance engagement during the current disclosure year. These matters were addressed in the context of our compliance engagement, and in forming our opinion. We do not provide a separate opinion on these matters. In addition to the matter described in the Basis of Qualified Opinion section of our report, we have determine the matters described below to be Key Assurance 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 Information Disclosure Determination. 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 property, plant and equipment 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 Information Disclosure Determination (ID Determination) 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 ID Determination, 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;
- For assets with no standard asset lives we assessed the reasonableness of the lives used by reference to the accounting depreciation rates;
- We tested the mathematical accuracy of the depreciation calculation on a sample basis and that it is performed 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.



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

The Directors of the Company are responsible for:

- the preparation of the Disclosure Information in accordance with the Information Disclosure Determination, and
- the Related Party Transaction Information in accordance with the Information Disclosure Determination 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 are free from material misstatement.

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

Our responsibility is to express an opinion that provides reasonable assurance on whether:

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

Independence and quality control

When carrying out the engagement, we complied with:

- the Auditor-General's independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board;
- the independence requirements specified in the Information Disclosure Determination; 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. In addition to this engagement, we have performed the annual audit, provided regulatory compliance advice and other advisory services to the Company. These assignments were compatible with the Auditor General's independence requirements. Other than the provision of these assignments, we have no relationship 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 Information Disclosure Determination and whether the Related Party Transaction Information has been prepared, in all material respects, in accordance with the Information Disclosure Determination 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 PricewaterhouseCoopers On behalf of the Auditor-General Christchurch, New Zealand 30 August 2019

5. 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

Sarah Jane Brown

30 August 2019