



Electricity Invercargill limited

Default Price-Quality Path

Annual Price Setting Compliance Statement

1 April 2021 – 31 March 2022 Assessment Period

25 March 2021

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1. Introduction

Electricity Invercargill limited is subject to price-quality regulation under Part 4 of the Commerce Act 1986. The Commerce Commission has set a Default Price-Quality Path (DPP) which applies to Electricity Invercargill limited from 1 April 2020.

This price-setting compliance statement is published in accordance with clause 11.1 of the 2020 DPP Determination, and applies to the second assessment period, commencing 1 April 2021 and ending 31 March 2022.

2. Date prepared

This statement was prepared on 25 March 2021.

3. Statement of compliance

As demonstrated in Table 1 below, and consistent with clause 8.4 of the 2020 DPP Determination Electricity Invercargill limited has complied with the price path for the second assessment period.

Table 1

Compliance with price path RY22		
Forecast revenue from prices must not exceed the lesser of:		
(a) The forecast allowable revenue for that assessment period, and		
(b) The amount determined in accordance with the following formula:		
the forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices)		
Term	Description	Value (\$000)
Forecast revenue from prices (\$000)	Forecast prices between 1 April 2021 and 31 March 2022 multiplied by forecast quantities for the period ending 31 March 2022	17,884
Forecast allowable revenue (\$000)	The sum of forecast net allowable revenue, forecast pass-through and recoverable costs, opening wash-up account balance and the pass-through balance allowance	17,889
Maximum allowable forecast revenue from prices (\$000)	Forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices)	21,403
Maximum allowable forecast revenue (\$000)	The lesser of the forecast allowable revenue and maximum allowable forecast revenue from prices	17,889
Compliance Result	Forecast revenue from prices ≤ forecast allowable revenue and maximum allowable forecast revenue from prices	Compliant

Further information supporting forecast allowable revenue is included in Section 5 and Appendix A.

Further information supporting forecast revenue from prices is included in Section 6 and Appendix B.

4. Director's certification

A Director's certificate in the form set out in Schedule 6 of the 2020 DPP Determination is included as Appendix C.

5. Forecast allowable revenue

Table 2 shows the derivation of forecast allowable revenue, consistent with the requirements of Schedule 1.5 of the 2020 DPP Determination.

Table 2

Forecast allowable revenue RY22		
Term	Description	Value (\$000)
Forecast net allowable revenue	<i>Forecast net allowable revenue as set out in Table 1.4.1 in Schedule 1.4 for the period ending 31 March 2022</i>	12,497
Forecast pass through costs	<i>Forecast pass-through costs and forecast recoverable costs</i>	256
Forecast recoverable costs	<i>Forecast recoverable costs, excluding any recoverable cost that is a revenue wash-up drawn down amount</i>	5,113
Opening wash-up account balance	<i>The opening wash-up account balance for the first assessment period of the DPP regulatory period is nil as set out in Schedule 1.7 (1)(a)</i>	-
Pass-through balance allowance	<i>(ePTB – pass-through balance) x (1+ 67th percentile post-tax WACC)²</i>	23
Total		17,889

Appendix A shows the components of the forecast pass-through and recoverable costs, and the pass-through balance allowance.

The methodology to derive the forecasts of the pass-through and recoverable costs is documented in Appendix A.

6. Forecast revenue from prices

Table 3 shows forecast revenue from prices.

Table 3

Forecast revenue from prices RY22		
Term	Description	Value (\$000)
$\Sigma P_{2021/22} * Q_{2021/22}$	<i>Forecast prices between 1 April 2021 and 31 March 2022 multiplied by forecast quantities for the period ending 31 March 2022</i>	17,884

Appendix B shows the components of forecast revenue from prices. The methodology to forecast the quantities associated with each price is documented in Appendix B.

7. Maximum Allowable Forecast Revenue from Prices

Summary Table 4 shows the maximum allowable forecast revenue from prices, consistent with the requirements of clause 8.4 of the 2020 DPP Determination.

Table 4

Maximum Allowable Forecast revenue from Prices RY22		
Term	Description	Value (\$000)
Forecast revenue from prices from previous assessment period	Forecast prices between 1 April 2020 and 31 March 2021 multiplied by forecast quantities for the period ending 31 March 2021	19,457
Limit on annual percentage increase in forecast revenue from prices		10%
Maximum allowable forecast revenue from prices	Forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices)	21,403

Appendix A – Pass-through and recoverable costs

Forecast pass-through costs

Table 5

Forecast Pass-through Costs RY22		
Forecast pass-through costs	\$000	Forecasting methodology
Rates on system fixed assets	138	EIL Three Year Business Plan 2020-2023
Commerce Act levies	53	EIL Three Year Business Plan 2020-2023
Electricity Authority levies	54	EIL Three Year Business Plan 2020-2023
Utilities Disputes levies	11	EIL Three Year Business Plan 2020-2023
Total forecast pass-through costs	256	

The forecasting method used to determine the pass-through costs for RY22 is to use the amounts published for 2021 -22 in the 2020 – 2023 EIL three year business plan.

Forecast recoverable costs

Table 6

Forecast Recoverable Costs RY22		
Forecast recoverable costs	\$000	Forecasting methodology
IRIS incentive adjustment	(110)	Commerce Commission calculation of IRIS spreadsheet
Transpower transmission charges	5,166	Transpower pricing notification for 2021-22
New investment contract charges	320	Transpower pricing notification for 2021-22
Capex wash-up adjustment	(130)	Commerce Commission calculation of Capex wash-up spreadsheet
System operator services charges	-	
Avoided transmission charges - purchased assets	-	
Distributed generation allowance	-	
Claw-back	-	
Catastrophic event allowance	-	
Extended reserves allowance	-	
Quality incentive adjustment	(153)	2020 DPP Compliance statement
Transmission asset wash-up adjustment	-	
Reconsideration event allowance	-	
Quality standard variation engineers fee	-	
Urgent project allowance	-	
Fire and emergency NZ levies	20	18 month insurance levy annualised
Innovation project allowance	-	
Total forecast recoverable costs	5,113	

The IRIS incentive adjustment is forecast using the value determined by the Commerce Commission in its “calculation of IRIS recoverable costs for DPP3” spreadsheet.

Transpower transmission and new investment contract charges are forecast from Transpower’s 2021-22 pricing notification to EIL.

The Quality incentive adjustment is forecast using the amount calculated in the EIL 2020 DPP compliance statement and adjusted for time value of money.

The Capex wash-up adjustment is forecast using the value determined by the Commerce Commission in its “capex wash-up guidance calculation spreadsheet for the 2020–2025 EDB DPP”.

Fire and emergency NZ levies are forecast by annualising the current 18-month levy.

Pass-through balance allowance

Table 7

Pass-through balance allowance RY22		
Term	Description	Value (\$000)
ePTB 31 March 2020	<i>An estimate of the pass-through balance as at 31 March 2020 - the actual pass-through balance at 31 March 2020</i>	(186)
pass-through balance 31 March 2020	<i>Actual pass-through balance at 31 March 2020</i>	(207)
67th percentile estimate of post-tax WACC	<i>As per Clause 4.2</i>	4.23%
Pass-through balance allowance	<i>(ePTB - pass-through balance) x (1 + WACC)²</i>	23

The pass-through balance allowance has been calculated by taking the estimated pass-through balance as at 31 March 2020 and deducting the actual pass-through balance as calculated in the 31 March 2020 DPP compliance statement and multiplying this by one plus the WACC rate squared.

Appendix B – Forecast prices and quantities

Table 8 shows the forecast prices and quantities for the forecast revenue from prices for the second assessment period.

Table 8

Forecast revenue from prices RY22				
Price Category Residential and General	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
ND08P	\$/day	\$0.5977	31	\$ 7
ND08Q	\$/day	\$0.4158	93	\$ 14
ND20P	\$/day	\$1.1045	1146	\$ 462
ND20Q	\$/day	\$0.7670	7646	\$ 2,141
NDL20P	\$/day	\$0.1500	1062	\$ 58
NDL20Q	\$/day	\$0.1000	5275	\$ 193
NDL08P	\$/day	\$0.1500	23	\$ 1
NDL08Q	\$/day	\$0.1000	99	\$ 4
NS001L	\$/day	\$0.0916	5523	\$ 185
NS001P	\$/day	\$0.4288	46	\$ 7
NS008P	\$/day	\$0.5977	177	\$ 39
NS008Q	\$/day	\$0.4158	11	\$ 2
NS020P	\$/day	\$1.1045	265	\$ 107
NS020Q	\$/day	\$0.7670	85	\$ 24
NT015P	\$/day	\$0.9234	66	\$ 22
NT015Q	\$/day	\$0.5977	9	\$ 2
NT030P	\$/day	\$1.5466	545	\$ 308
NT030Q	\$/day	\$1.0526	114	\$ 44
NT050P	\$/day	\$3.1579	318	\$ 367
NT050Q	\$/day	\$2.1443	66	\$ 52
NT075P	\$/day	\$6.4847	117	\$ 276
NT075Q	\$/day	\$4.7175	15	\$ 26
NT100P	\$/day	\$7.8881	68	\$ 194
NT100Q	\$/day	\$5.7181	7	\$ 15
Residential & General	\$/MWh	\$ 63.67	110716	\$ 7,049
EIL 20 KVA Low	\$/MWh	\$ 98.27	32747	\$ 3,218
EIL 8 KVA Low	\$/MWh	\$ 80.05	603	\$ 48
Total				\$ 14,861

Price Category Individual line charges	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)	Forecast Total revenue (\$000)
7227954NV-421	\$/day	\$ 3.2299	1	\$ 1.18	\$/MWh	\$ 63.67	60.55	\$ 3.86	\$ 5.03400
724187NV-3BD	\$/day	\$ (7.9248)	1	\$ (2.89)	\$/MWh	\$ 63.67	214.77	\$ 13.67	\$ 10.782
7302304NV-CA2	\$/day	\$ 1.3533	1	\$ 0.49	\$/MWh	\$ 63.67	79.79	\$ 5.08	\$ 5.574
730262NV-92A	\$/day	\$ (2.4234)	1	\$ (0.88)	\$/MWh	\$ 63.67	123.04	\$ 7.83	\$ 6.949
731881NV-4FA	\$/day	\$ 12.3825	1	\$ 4.52	\$/MWh	\$ 63.67	76.23	\$ 4.85	\$ 9.373
733395NV-F13	\$/day	\$ 1.4668	1	\$ 0.54	\$/MWh	\$ 63.67	91.97	\$ 5.86	\$ 6.391
734325NV-9C1	\$/day	\$ 6.1752	1	\$ 2.25	\$/MWh	\$ 63.67	44.92	\$ 2.86	\$ 5.114
734326NV-501	\$/day	\$ 3.1925	1	\$ 1.17	\$/MWh	\$ 63.67	72.79	\$ 4.63	\$ 5.800
734355NV-C9C	\$/day	\$ 13.6957	1	\$ 5.00	\$/MWh	\$ 63.67	42.72	\$ 2.72	\$ 7.719
734360NV-62B	\$/day	\$ (5.6594)	1	\$ (2.07)	\$/MWh	\$ 63.67	114.45	\$ 7.29	\$ 5.221
7344583NV-CV71	\$/day	\$ 3.9596	1	\$ 1.45	\$/MWh	\$ 63.67	92.01	\$ 5.86	\$ 7.303
734470NV-384	\$/day	\$ 29.6249	1	\$ 10.81	\$/MWh	\$ 63.67	69.90	\$ 4.45	\$ 15.264
734846NV-9FF	\$/day	\$ 4.2851	1	\$ 1.56	\$/MWh	\$ 63.67	6.28	\$ 0.40	\$ 1.964
7350005NV-3Do	\$/day	\$ 2.0407	1	\$ 0.74	\$/MWh	\$ 63.67	63.36	\$ 4.03	\$ 4.779
7350693NV-BBE	\$/day	\$ 3.2732	1	\$ 1.19	\$/MWh	\$ 63.67	50.96	\$ 3.24	\$ 4.439
735249NV-D8B	\$/day	\$ 8.2959	1	\$ 3.03	\$/MWh	\$ 63.67	93.25	\$ 5.94	\$ 8.965
740340NV-747	\$/day	\$ (6.9431)	1	\$ (2.53)	\$/MWh	\$ 63.67	175.63	\$ 11.18	\$ 8.648
740394NV-BoF	\$/day	\$ 7.4380	1	\$ 2.71	\$/MWh	\$ 63.67	144.70	\$ 9.21	\$ 11.928
7433294NV-FC6	\$/day	\$ 14.1965	1	\$ 5.18	\$/MWh	\$ 63.67	41.75	\$ 2.66	\$ 7.840
743331NV-CBF	\$/day	\$ 3.7211	1	\$ 1.36	\$/MWh	\$ 63.67	92.36	\$ 5.88	\$ 7.239
7433753NV-oE6	\$/day	\$ (9.1034)	1	\$ (3.32)	\$/MWh	\$ 63.67	206.20	\$ 13.13	\$ 9.806
744592NV-A06	\$/day	\$ 5.8988	1	\$ 2.15	\$/MWh	\$ 63.67	49.60	\$ 3.16	\$ 5.311
7447592NV-D72	\$/day	\$ 3.6236	1	\$ 1.32	\$/MWh	\$ 63.67	37.55	\$ 2.39	\$ 3.713
7501257NV-2E9	\$/day	\$ 5.9026	1	\$ 2.15	\$/MWh	\$ 63.67	46.23	\$ 2.94	\$ 5.098
750191NV-4A6	\$/day	\$ 0.4799	1	\$ 0.18	\$/MWh	\$ 63.67	119.12	\$ 7.58	\$ 7.759
7501996NV-A4D	\$/day	\$ (2.2745)	1	\$ (0.83)	\$/MWh	\$ 63.67	93.25	\$ 5.94	\$ 5.107
755825NV-937	\$/day	\$ 18.6211	1	\$ 6.80	\$/MWh	\$ 63.67	25.05	\$ 1.59	\$ 8.391
800449NV-3FB	\$/day	\$ 0.1473	1	\$ 0.05	\$/MWh	\$ 63.67	78.86	\$ 5.02	\$ 5.075
82029943NV-B5B	\$/day	\$ 10.4153	1	\$ 3.80	\$/MWh	\$ 63.67	19.82	\$ 1.26	\$ 5.063
8305375NV-D2C	\$/day	\$ 0.2400	1	\$ 0.09	\$/MWh	\$ 63.67	48.21	\$ 3.07	\$ 3.157
836598NV-F14	\$/day	\$ (16.3830)	1	\$ (5.98)	\$/MWh	\$ 63.67	251.68	\$ 16.02	\$ 10.045
8541431NV-DF3	\$/day	\$ 12.9575	1	\$ 4.73	\$/MWh	\$ 63.67	49.38	\$ 3.14	\$ 7.873
8665382NV-F7A	\$/day	\$ 0.6400	1	\$ 0.23	\$/MWh	\$ 63.67	231.50	\$ 14.74	\$ 14.973
8665408NV-7A3	\$/day	\$ 7.9611	1	\$ 2.91	\$/MWh	\$ 63.67	88.80	\$ 5.65	\$ 8.560
880344NV-C87	\$/day	\$ (31.6501)	1	\$ (11.55)	\$/MWh	\$ 63.67	430.83	\$ 27.43	\$ 15.879
8803601NV-E7B	\$/day	\$ 7.5064	1	\$ 2.74	\$/MWh	\$ 63.67	95.92	\$ 6.11	\$ 8.847
880375NV-73A	\$/day	\$ 5.3903	1	\$ 1.97	\$/MWh	\$ 63.67	180.80	\$ 11.51	\$ 13.479
8803767NV-900	\$/day	\$ (1.7518)	1	\$ (0.64)	\$/MWh	\$ 63.67	54.88	\$ 3.49	\$ 2.855
900319NV-09D	\$/day	\$ 5.6619	1	\$ 2.07	\$/MWh	\$ 63.67	96.80	\$ 6.16	\$ 8.230
900356NV-DE6	\$/day	\$ 5.5155	1	\$ 2.01	\$/MWh	\$ 63.67	122.31	\$ 7.79	\$ 9.801
9003573NV-568	\$/day	\$ 1.4373	1	\$ 0.52	\$/MWh	\$ 63.67	226.17	\$ 14.40	\$ 14.925
900390NV-B86	\$/day	\$ 21.2101	1	\$ 7.74	\$/MWh	\$ 63.67	125.59	\$ 8.00	\$ 15.738
930505NV-E04	\$/day	\$ 9.1891	1	\$ 3.35	\$/MWh	\$ 63.67	91.39	\$ 5.82	\$ 9.173
930921NV-E57	\$/day	\$ 22.9478	1	\$ 8.38	\$/MWh	\$ 63.67	117.68	\$ 7.49	\$ 15.868
931326NV-837	\$/day	\$ 17.1821	1	\$ 6.27	\$/MWh	\$ 63.67	69.08	\$ 4.40	\$ 10.670

931746NV-BC6	\$/day	\$ 17.9733	1	\$ 6.56	\$/MWh	\$ 63.67	178.33	\$ 11.35	\$ 17.915
931760NV-71C	\$/day	\$ 4.9615	1	\$ 1.81	\$/MWh	\$ 63.67	56.56	\$ 3.60	\$ 5.412
931776NV-C3E	\$/day	\$ 23.0146	1	\$ 8.40	\$/MWh	\$ 63.67	46.80	\$ 2.98	\$ 11.380
934525NV-5D1	\$/day	\$ 5.5316	1	\$ 2.02	\$/MWh	\$ 63.67	69.33	\$ 4.41	\$ 6.433
7205085NV-6A2	\$/day	\$ 9.1176	1	\$ 3.33	\$/MWh	\$ 21.60	154.09	\$ 3.33	\$ 6.656
721862NV-A61	\$/day	\$ 3.6001	1	\$ 1.31	\$/MWh	\$ 30.58	42.97	\$ 1.31	\$ 2.628
721876NV-1C6	\$/day	\$ 10.1555	1	\$ 3.71	\$/MWh	\$ 41.74	88.80	\$ 3.71	\$ 7.413
7227011NV-2C2	\$/day	\$ 12.1297	1	\$ 4.43	\$/MWh	\$ 55.56	79.69	\$ 4.43	\$ 8.855
722703NV-43B	\$/day	\$ 16.3543	1	\$ 5.97	\$/MWh	\$ 23.52	253.78	\$ 5.97	\$ 11.938
7229001NV-0AF	\$/day	\$ 9.0519	1	\$ 3.30	\$/MWh	\$ 32.09	102.95	\$ 3.30	\$ 6.608
724179NV-031	\$/day	\$ 4.4650	1	\$ 1.63	\$/MWh	\$ 47.49	34.32	\$ 1.63	\$ 3.259
724111NV-DD5	\$/day	\$ 12.4153	1	\$ 4.53	\$/MWh	\$ 64.74	70.00	\$ 4.53	\$ 9.063
73015753NV-AoE	\$/day	\$ 11.2505	1	\$ 4.11	\$/MWh	\$ 23.36	175.77	\$ 4.11	\$ 8.212
7301908NV-756	\$/day	\$ 8.9079	1	\$ 3.25	\$/MWh	\$ 20.05	162.16	\$ 3.25	\$ 6.503
7301973NV-CDF	\$/day	\$ 9.9713	1	\$ 3.64	\$/MWh	\$ 21.45	169.69	\$ 3.64	\$ 7.279
7302313NV-BC5	\$/day	\$ 4.7669	1	\$ 1.74	\$/MWh	\$ 55.49	31.35	\$ 1.74	\$ 3.480
7302953NV-36A	\$/day	\$ 14.5215	1	\$ 5.30	\$/MWh	\$ 30.58	173.30	\$ 5.30	\$ 10.600
7317032NV-617	\$/day	\$ 21.2971	1	\$ 7.77	\$/MWh	\$ 32.60	238.43	\$ 7.77	\$ 15.546
733399NV-CoD	\$/day	\$ 7.9082	1	\$ 2.89	\$/MWh	\$ 27.09	106.55	\$ 2.89	\$ 5.773
734110NV-971	\$/day	\$ 15.9485	1	\$ 5.82	\$/MWh	\$ 38.61	150.78	\$ 5.82	\$ 11.643
7341272NV-801	\$/day	\$ 7.5264	1	\$ 2.75	\$/MWh	\$ 41.04	66.93	\$ 2.75	\$ 5.494
7341276NV-90B	\$/day	\$ 11.5749	1	\$ 4.22	\$/MWh	\$ 27.47	153.82	\$ 4.23	\$ 8.450
734165NV-163	\$/day	\$ 41.4843	1	\$ 15.14	\$/MWh	\$ 32.74	462.50	\$ 15.14	\$ 30.284
7341792NV-7BE	\$/day	\$ 15.4350	1	\$ 5.63	\$/MWh	\$ 25.61	219.96	\$ 5.63	\$ 11.267
7341793NV-BFB	\$/day	\$ 11.0362	1	\$ 4.03	\$/MWh	\$ 28.36	142.05	\$ 4.03	\$ 8.057
734188NV-482	\$/day	\$ 44.1637	1	\$ 16.12	\$/MWh	\$ 20.14	800.24	\$ 16.12	\$ 32.237
734318NV-162	\$/day	\$ 15.2460	1	\$ 5.56	\$/MWh	\$ 35.37	157.35	\$ 5.57	\$ 11.130
734424NV-A86	\$/day	\$ 6.1038	1	\$ 2.23	\$/MWh	\$ 35.61	62.56	\$ 2.23	\$ 4.456
734460NV-929	\$/day	\$ 8.6249	1	\$ 3.15	\$/MWh	\$ 62.54	50.34	\$ 3.15	\$ 6.296
734802NV-A50	\$/day	\$ 15.7253	1	\$ 5.74	\$/MWh	\$ 31.04	184.90	\$ 5.74	\$ 11.479
7403555NV-A42	\$/day	\$ 17.9858	1	\$ 6.56	\$/MWh	\$ 29.70	221.03	\$ 6.56	\$ 13.129
740373NV-C7F	\$/day	\$ 15.8882	1	\$ 5.80	\$/MWh	\$ 46.45	124.86	\$ 5.80	\$ 11.599
740385NV-DE7	\$/day	\$ 19.4481	1	\$ 7.10	\$/MWh	\$ 22.45	316.23	\$ 7.10	\$ 14.198
740630NV-71F	\$/day	\$ 17.3382	1	\$ 6.33	\$/MWh	\$ 29.35	215.62	\$ 6.33	\$ 12.657
740649NV-C13	\$/day	\$ 5.3281	1	\$ 1.94	\$/MWh	\$ 38.87	50.04	\$ 1.94	\$ 3.890
7433014NV-08B	\$/day	\$ 40.6612	1	\$ 14.84	\$/MWh	\$ 29.36	505.55	\$ 14.84	\$ 29.684
7433292NV-E49	\$/day	\$ 32.2285	1	\$ 11.76	\$/MWh	\$ 38.41	306.22	\$ 11.76	\$ 23.525
744103NV-5A5	\$/day	\$ 48.7698	1	\$ 17.80	\$/MWh	\$ 22.36	795.94	\$ 17.80	\$ 35.598
744608NV-473	\$/day	\$ 21.9658	1	\$ 8.02	\$/MWh	\$ 28.22	284.09	\$ 8.02	\$ 16.034
744611NV-08F	\$/day	\$ 23.5471	1	\$ 8.59	\$/MWh	\$ 31.30	274.58	\$ 8.59	\$ 17.189
744655NV-320	\$/day	\$ 13.9210	1	\$ 5.08	\$/MWh	\$ 26.17	194.17	\$ 5.08	\$ 10.163
7447142NV-C31	\$/day	\$ 13.6394	1	\$ 4.98	\$/MWh	\$ 27.49	181.09	\$ 4.98	\$ 9.956
754696NV-oEE	\$/day	\$ 24.4027	1	\$ 8.91	\$/MWh	\$ 30.45	292.53	\$ 8.91	\$ 17.815
7551948NV-7Eo	\$/day	\$ 25.4213	1	\$ 9.28	\$/MWh	\$ 30.37	305.52	\$ 9.28	\$ 18.557
755884NV-D6D	\$/day	\$ 11.2960	1	\$ 4.12	\$/MWh	\$ 59.34	69.49	\$ 4.12	\$ 8.246
760735NV-A99	\$/day	\$ 11.7546	1	\$ 4.29	\$/MWh	\$ 39.37	108.99	\$ 4.29	\$ 8.581
760737NV-A1C	\$/day	\$ 35.9371	1	\$ 13.12	\$/MWh	\$ 41.62	315.16	\$ 13.12	\$ 26.234

7757907NV-783	\$/day	\$ 38.3445	1	\$ 14.00	\$/MWh	\$ 36.77	380.68	\$ 14.00	\$ 27.993
7757994NV-4A4	\$/day	\$ 16.8222	1	\$ 6.14	\$/MWh	\$ 40.44	151.83	\$ 6.14	\$ 12.280
810201NV-DAD	\$/day	\$ 8.7085	1	\$ 3.18	\$/MWh	\$ 40.32	78.84	\$ 3.18	\$ 6.357
8102959NV-5D5	\$/day	\$ 31.8045	1	\$ 11.61	\$/MWh	\$ 33.87	342.77	\$ 11.61	\$ 23.218
8144266NV-0A8	\$/day	\$ 20.1964	1	\$ 7.37	\$/MWh	\$ 24.06	306.44	\$ 7.37	\$ 14.745
825292NV-886	\$/day	\$ 49.0396	1	\$ 17.90	\$/MWh	\$ 26.91	665.15	\$ 17.90	\$ 35.799
8305967NV-DoE	\$/day	\$ 16.7030	1	\$ 6.10	\$/MWh	\$ 115.66	52.71	\$ 6.10	\$ 12.193
8305981NV-63B	\$/day	\$ 46.0664	1	\$ 16.81	\$/MWh	\$ 38.82	433.17	\$ 16.82	\$ 33.630
831121NV-B96	\$/day	\$ 12.4745	1	\$ 4.55	\$/MWh	\$ 41.55	109.59	\$ 4.55	\$ 9.107
832431NV-6DE	\$/day	\$ 38.7990	1	\$ 14.16	\$/MWh	\$ 54.65	259.12	\$ 14.16	\$ 28.322
835083NV-C88	\$/day	\$ 10.1335	1	\$ 3.70	\$/MWh	\$ 187.30	19.75	\$ 3.70	\$ 7.397
835871NV-C17	\$/day	\$ 26.6216	1	\$ 9.72	\$/MWh	\$ 36.00	269.89	\$ 9.72	\$ 19.433
8365737NV-155	\$/day	\$ 36.9393	1	\$ 13.48	\$/MWh	\$ 35.37	381.19	\$ 13.48	\$ 26.966
8425758NV-FE5	\$/day	\$ 10.9913	1	\$ 4.01	\$/MWh	\$ 20.43	196.41	\$ 4.01	\$ 8.024
8509006NV-D55	\$/day	\$ 13.5025	1	\$ 4.93	\$/MWh	\$ 20.93	235.45	\$ 4.93	\$ 9.857
8509025NV-CCo	\$/day	\$ 28.2870	1	\$ 10.32	\$/MWh	\$ 23.74	434.95	\$ 10.33	\$ 20.650
8509026NV-000	\$/day	\$ 27.3947	1	\$ 10.00	\$/MWh	\$ 29.90	334.41	\$ 10.00	\$ 19.998
850908NV-B67	\$/day	\$ 76.6202	1	\$ 27.97	\$/MWh	\$ 20.69	1,351.56	\$ 27.96	\$ 55.930
8509245NV-937	\$/day	\$ 20.5034	1	\$ 7.48	\$/MWh	\$ 20.02	373.73	\$ 7.48	\$ 14.966
850948NV-9C2	\$/day	\$ 2.8610	1	\$ 1.04	\$/MWh	\$ 24.16	43.22	\$ 1.04	\$ 2.088
8509962NV-AA6	\$/day	\$ 3.9490	1	\$ 1.44	\$/MWh	\$ 30.95	46.57	\$ 1.44	\$ 2.883
8665558NV-6AF	\$/day	\$ 11.3677	1	\$ 4.15	\$/MWh	\$ 49.79	83.33	\$ 4.15	\$ 8.298
880302NV-FAD	\$/day	\$ 10.1186	1	\$ 3.69	\$/MWh	\$ 16.38	225.51	\$ 3.69	\$ 7.387
8803031NV-F85	\$/day	\$ 18.3968	1	\$ 6.71	\$/MWh	\$ 20.70	324.38	\$ 6.71	\$ 13.429
8803032NV-345	\$/day	\$ 11.9171	1	\$ 4.35	\$/MWh	\$ 31.53	137.95	\$ 4.35	\$ 8.699
8803047NV-B57	\$/day	\$ 7.4854	1	\$ 2.73	\$/MWh	\$ 35.09	77.86	\$ 2.73	\$ 5.464
880308NV-D3C	\$/day	\$ 10.7594	1	\$ 3.93	\$/MWh	\$ 21.72	180.77	\$ 3.93	\$ 7.853
880309NV-179	\$/day	\$ 21.2650	1	\$ 7.76	\$/MWh	\$ 23.84	325.59	\$ 7.76	\$ 15.524
8803164NV-3C6	\$/day	\$ 9.5652	1	\$ 3.49	\$/MWh	\$ 27.07	128.99	\$ 3.49	\$ 6.983
8803165NV-F83	\$/day	\$ 6.6032	1	\$ 2.41	\$/MWh	\$ 28.21	85.43	\$ 2.41	\$ 4.820
880317NV-84F	\$/day	\$ 9.1185	1	\$ 3.33	\$/MWh	\$ 93.70	35.52	\$ 3.33	\$ 6.657
880321NV-E38	\$/day	\$ 17.6780	1	\$ 6.45	\$/MWh	\$ 20.38	316.63	\$ 6.45	\$ 12.905
880323NV-EBD	\$/day	\$ 23.5703	1	\$ 8.60	\$/MWh	\$ 23.12	372.05	\$ 8.60	\$ 17.205
880327NV-FB7	\$/day	\$ 42.2167	1	\$ 15.41	\$/MWh	\$ 19.32	797.40	\$ 15.41	\$ 30.815
8803283NV-7B5	\$/day	\$ 21.9374	1	\$ 8.01	\$/MWh	\$ 23.60	339.28	\$ 8.01	\$ 16.014
8803298NV-3CC	\$/day	\$ 47.9306	1	\$ 17.49	\$/MWh	\$ 32.38	540.34	\$ 17.50	\$ 34.991
880329NV-C2C	\$/day	\$ 127.6245	1	\$ 46.58	\$/MWh	\$ 25.41	1,833.14	\$ 46.58	\$ 93.163
880336NV-95F	\$/day	\$ 56.1563	1	\$ 20.50	\$/MWh	\$ 27.30	750.77	\$ 20.50	\$ 40.993
880361NV-C9D	\$/day	\$ 72.8411	1	\$ 26.59	\$/MWh	\$ 19.76	1,345.18	\$ 26.58	\$ 53.168
8803625NV-224	\$/day	\$ 19.0091	1	\$ 6.94	\$/MWh	\$ 19.84	349.78	\$ 6.94	\$ 13.878
880363NV-C18	\$/day	\$ 10.7993	1	\$ 3.94	\$/MWh	\$ 30.73	128.27	\$ 3.94	\$ 7.884
880397NV-Do5	\$/day	\$ 45.1407	1	\$ 16.48	\$/MWh	\$ 31.89	516.74	\$ 16.48	\$ 32.955
9003051NV-DBD	\$/day	\$ 29.4718	1	\$ 10.76	\$/MWh	\$ 25.58	420.49	\$ 10.76	\$ 21.513
900305NV-92E	\$/day	\$ 36.3377	1	\$ 13.26	\$/MWh	\$ 43.31	306.25	\$ 13.26	\$ 26.527
900306NV-5EE	\$/day	\$ 30.1790	1	\$ 11.02	\$/MWh	\$ 61.02	180.53	\$ 11.02	\$ 22.031
9003071NV-oE8	\$/day	\$ 59.2024	1	\$ 21.61	\$/MWh	\$ 22.93	942.21	\$ 21.60	\$ 43.214
90030815NV-060	\$/day	\$ 32.5472	1	\$ 11.88	\$/MWh	\$ 27.18	437.00	\$ 11.88	\$ 23.757

9003081NV-oFF	\$/day	\$ 12.6868	1	\$ 4.63	\$/MWh	\$ 45.32	102.18	\$ 4.63	\$ 9.261
900358NV-E7D	\$/day	\$ 27.9936	1	\$ 10.22	\$/MWh	\$ 83.07	123.00	\$ 10.22	\$ 20.435
9003083NV-o7A	\$/day	\$ 35.2272	1	\$ 12.86	\$/MWh	\$ 20.43	629.27	\$ 12.86	\$ 25.714
900308NV-675	\$/day	\$ 52.6376	1	\$ 19.21	\$/MWh	\$ 29.74	646.04	\$ 19.21	\$ 38.426
9003117NV-793	\$/day	\$ 46.5796	1	\$ 17.00	\$/MWh	\$ 25.89	656.58	\$ 17.00	\$ 34.000
900313NV-20C	\$/day	\$ 15.2393	1	\$ 5.56	\$/MWh	\$ 32.93	168.91	\$ 5.56	\$ 11.125
9003212NV-9DF	\$/day	\$ 7.3707	1	\$ 2.69	\$/MWh	\$ 21.99	122.36	\$ 2.69	\$ 5.381
9003235NV-940	\$/day	\$ 65.4693	1	\$ 23.90	\$/MWh	\$ 23.40	1,021.26	\$ 23.90	\$ 47.794
9003243NV-D92	\$/day	\$ 18.3311	1	\$ 6.69	\$/MWh	\$ 25.01	267.51	\$ 6.69	\$ 13.381
9003244NV-o58	\$/day	\$ 26.8719	1	\$ 9.81	\$/MWh	\$ 20.64	475.25	\$ 9.81	\$ 19.617
900325NV-47B	\$/day	\$ 83.0662	1	\$ 30.32	\$/MWh	\$ 18.45	1,643.04	\$ 30.31	\$ 60.633
900327NV-4FE	\$/day	\$ 6.8718	1	\$ 2.51	\$/MWh	\$ 20.92	119.87	\$ 2.51	\$ 5.016
900330NV-399	\$/day	\$ 79.2653	1	\$ 28.93	\$/MWh	\$ 19.57	1,478.10	\$ 28.93	\$ 57.858
9003385NV-2F6	\$/day	\$ 13.6131	1	\$ 4.97	\$/MWh	\$ 24.92	199.43	\$ 4.97	\$ 9.938
900342NV-641	\$/day	\$ 11.2227	1	\$ 4.10	\$/MWh	\$ 27.11	151.09	\$ 4.10	\$ 8.192
9003503NV-o35	\$/day	\$ 15.9548	1	\$ 5.82	\$/MWh	\$ 36.58	159.19	\$ 5.82	\$ 11.647
900350NV-C69	\$/day	\$ 8.7887	1	\$ 3.21	\$/MWh	\$ 35.67	89.92	\$ 3.21	\$ 6.415
900351NV-o2C	\$/day	\$ 26.0143	1	\$ 9.50	\$/MWh	\$ 16.93	560.91	\$ 9.50	\$ 18.991
9003603NV-336	\$/day	\$ 52.9791	1	\$ 19.34	\$/MWh	\$ 24.42	791.99	\$ 19.34	\$ 38.678
900383NV-DEB	\$/day	\$ 24.9636	1	\$ 9.11	\$/MWh	\$ 43.07	211.58	\$ 9.11	\$ 18.224
900384NV-o21	\$/day	\$ 67.7332	1	\$ 24.72	\$/MWh	\$ 28.65	862.99	\$ 24.72	\$ 49.447
9003995NV-251	\$/day	\$ 22.8639	1	\$ 8.35	\$/MWh	\$ 30.67	272.06	\$ 8.34	\$ 16.690
920755NV-4EA	\$/day	\$ 20.4714	1	\$ 7.47	\$/MWh	\$ 26.88	277.99	\$ 7.47	\$ 14.944
930503NV-F8B	\$/day	\$ 7.2120	1	\$ 2.63	\$/MWh	\$ 59.66	44.13	\$ 2.63	\$ 5.265
931704NV-9E6	\$/day	\$ 12.1376	1	\$ 4.43	\$/MWh	\$ 35.03	126.47	\$ 4.43	\$ 8.861
931741NV-60C	\$/day	\$ 47.3117	1	\$ 17.27	\$/MWh	\$ 27.67	624.20	\$ 17.27	\$ 34.540
931749NV-418	\$/day	\$ 23.8324	1	\$ 8.70	\$/MWh	\$ 34.41	252.80	\$ 8.70	\$ 17.398
933534NV-759	\$/day	\$ 19.4614	1	\$ 7.10	\$/MWh	\$ 33.42	212.54	\$ 7.10	\$ 14.207
9406011NV-187	\$/day	\$ 69.9167	1	\$ 25.52	\$/MWh	\$ 28.53	894.62	\$ 25.52	\$ 51.043
9406013NV-102	\$/day	\$ 30.4569	1	\$ 11.12	\$/MWh	\$ 47.59	233.61	\$ 11.12	\$ 22.234
9408016NV-48D	\$/day	\$ 425.6827	1	\$ 155.37	\$/MWh	\$ 29.80	5,214.57	\$ 155.39	\$ 310.768
880395NV-D8o	\$/day	\$ 46.0703	1	\$ 16.82	\$/MWh	\$ 42.33	397.23	\$ 16.81	\$ 33.630
900392NV-B03	\$/day	\$ 65.1821	1	\$ 23.79	\$/MWh	\$ 23.21	1,025.22	\$ 23.80	\$ 47.587
7302939NV-EoB	\$/day	\$ 11.5879	1	\$ 4.23	\$/MWh	\$ 29.37	144.02	\$ 4.23	\$ 8.459
7301152NV-DC2	\$/day	\$ 19.3589	1	\$ 7.07	\$/MWh	\$ 321.18	22.00	\$ 7.07	\$ 14.132
Total									\$ 3,022
ΣP_{2020/21}*Q_{2020/21}									\$ 17,884

The following quantity forecasts methods have been used for the setting of the forecast revenue from prices for the second assessment period:

- **Fixed charges for residential and general-** residential quantities are calculated by taking the November 2020 actual quantities and adjusting these by a change factor. The change factor is based on the change in the number of ICP's from April 2020 – November 2020 for each price code. The change factor is then multiplied to the Nov

2020 actual numbers, this total figure is then taken away from the November 2020 figure to find the difference between the actual November 2020 number and the total figure, which is then averaged and added to the November 2020 starting figure to represent the average number of connections for the forecast year.

- **Volume energy quantities for residential and general** – the combined consumption for the residential and general customers including the low user consumption is averaged based on the last 3-years consumption. The current year low user consumption is used as the forecast quantity for low users. The low user forecast quantity is then deducted from the combined averaged consumption to establish the forecast quantities for the remaining residential and general customer groups.
- **Volume energy quantities for individual line charge customers** – actual day energy volumes recorded from December 2019 to November 2020, which are used in the individual line charge review for each ICP are used as the forecast quantity for the 2021 - 2022 forecast period.

Appendix C – Director’s certificate

I, Thomas Campbell, being a director of Electricity Invercargill Limited certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached annual price-setting compliance statement of Electricity Invercargill Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2020* has been prepared in accordance with all relevant requirements, and all forecasts used in the calculations for forecast revenue from prices and forecast allowable revenue are reasonable.



Thomas Campbell

25 March 2021