



ELECTRICITY DISTRIBUTION SERVICES

Customised Price-Quality Path

Annual Price-setting Compliance Statement

Assessment Period: 01 April 2021 – 31 March 2022

Published: 31 March 2021

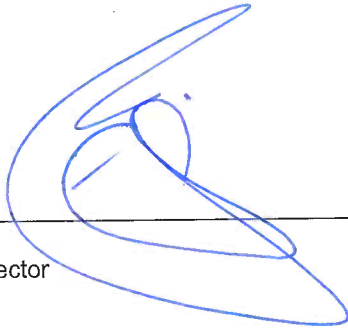
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1. Director's certificate

Director's certificate for the annual price-setting compliance statement

For the year 1 April 2021 – 31 March 2022

I, John Loughlin, being a director of Powerco Limited certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached annual price-setting compliance statement of Powerco, and related information, prepared for the purposes of the *Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018* has been prepared in accordance with all the relevant requirements, and all forecasts used in the calculations for forecast revenue from prices and forecast allowable revenue are reasonable.



Director

26 March 2021

Date

Note: Section 103(2) of the Commerce Act 1986 provides that no person shall attempt to deceive or knowingly mislead the Commission in relation to any matter before it. It is an offence to contravene section 103(2) and any person who does so is liable on summary conviction to a fine not exceeding \$100,000 in the case of an individual or \$300,000 in the case of a body corporate.

Powerco is required to report annually on compliance with its forecast price path

Powerco Limited's electricity distribution business (Powerco) is subject to regulation under the Commerce Act 1986. As the Regulator, the Commerce Commission (Commission) has set a customised price-quality path (CPP) which applies to Powerco for five years from 1 April 2018 to 31 March 2023. The CPP requirements are set in the Powerco Limited Electricity Distribution Customised Price-Quality Path Determination 2018¹ (Determination), and any subsequent amendments.

The Determination requires Powerco to disclose an annual price-setting compliance statement (Statement) to demonstrate that forecast revenue from prices is less than forecast allowable revenue.

This is the fourth assessment of forecast pricing compliance under the current CPP.

Powerco complies with its price path for the year 1 April 2021 – 31 March 2022

Appendix A provides the Determination's compliance requirements and references the relevant information included in this Statement.

Powerco published this Statement on 31 March 2022 on Powerco's website, www.Powerco.co.nz. A copy is available on request or at Powerco's principal office: Level 2, 84 Liardet Street New Plymouth.

¹ <https://comcom.govt.nz/regulated-industries/electricity-lines/electricity-lines-price-quality-paths/electricity-lines-customised-price-quality-path/powercos-20182023-c>

This section demonstrates compliance with the price path requirements of clause 8 of the Determination.

For presentation purposes, the tables set out in this report are aggregates of the price and quantity information for each price group. While the dollar balances are rounded to the nearest thousand dollars, the underlying compliance calculations apply the whole number.

3.1 Price path compliance

Compliance with the forecast price path is demonstrated when **forecast revenue from prices (FR_t)** does not exceed **forecast allowable revenue (FAR_t)** for the **assessment period**.

Table 1: Price path results for this assessment period

CPP requirement	FR ₂₀₂₂	≤	FAR ₂₀₂₂
Powerco's result (\$000)	358,763	≤	358,764
Compliance test	Complies		

3.2 Forecast revenue from prices

Forecast revenue from prices is calculated in accordance with schedule 1.2 of the Determination as the sum of each **price** multiplied by each corresponding forecast **quantity**.

A summary of Powerco's forecast revenue from prices is provided in Table 2. Appendix B includes the full table of prices and forecast quantities for the 2022 pricing year.

Table 2: Calculating Powerco's forecast revenue from prices (FR_t)

$$FR_{2022} = \sum (P_{2022} \times Q_{\text{forecast } 2022})$$

Region	Transmission ² (\$000)	Distribution (\$000)	Total (\$000)
Western	49,710	131,995	181,705
Eastern	56,949	120,109	177,058
FR₂₀₂₂	106,659	252,104	358,763

The Determination requires that forecast revenue from prices are demonstrably reasonable.

To ensure this, Powerco considered the impact the 2020 COVID-19 lockdowns had on electricity usage for the purposes of this forecast. The lockdowns appeared to drive a surge in usage by smaller consumer groups across all regions, but with varying effect, due to a mix of other factors compounding the issue.

Table 3 illustrates that forecast growth in the factors that determine quantity continue to align with historical growth data at a regional level. The methodology and outputs are provided in more detail at Appendix C.

Table 3: 2022 regional forecasts align with historical growth

Region	Connections		Volume (GWh)	
	2022 forecast % change from 2021	2018-2021 % growth range	2022 forecast % change from 2021	2018-2021 % growth range
Western	0.90%	0.79% – 0.93%	1.05%	-1.05% – 3.26%
Eastern	1.47%	1.39% – 1.83%	1.27%	-1.40% – 4.41%

² Powerco's forecast transmission revenue includes all pass-through and recoverable costs (refer Table 5) and the opening wash-up account balance (refer Table 7).

3.3 Forecast allowable revenue

Forecast allowable revenue is calculated in accordance with schedule 1.4 of the Determination as the sum of **forecast net allowable revenue, forecast pass-through and recoverable costs, and the opening wash-up account balance.**

The calculation of Powerco's forecast allowable revenue for this 2022 assessment period is provided in Table 4.

Table 4: Calculating Powerco's forecast allowable revenue (FAR)

$FAR_{2022} = \text{forecast net allowable revenue} + \text{forecast pass-through and recoverable costs} + \text{opening wash-up account balance}$

Calculation components	Total (\$000)
Forecast net allowable revenue is specified in schedule 1.3 of the Determination ³	245,981
Forecast pass-through and recoverable costs includes, but is not limited to, rates and levies, IRIS or other incentive adjustment and Transpower charges (see Section 3.4 for more detail)	107,945
Opening wash-up account balance represents any under or over recoveries resulting from differences between actual and forecast values in the prior year, adjusted for the time value of money (see Section 3.5 for more detail)	4,838
FAR₂₀₂₂	358,764

³ This value comes from the [Amendments Determination](#) made in May 2020.

3.4 Forecasts of pass-through and recoverable costs

The Determination allows for the inclusion of pass-through and recoverable costs in pricing if they are known at the time prices are set and have not been previously recovered or will not be able to be recovered other than through prices. Pass-through and recoverable costs are defined in clauses 3.1.2 and 3.1.3 of the Electricity Distribution Services Input Methodologies Determination 2012.

Pass-through costs include:

- Local government rates on system fixed assets;
- Electricity Industry Act levies; and
- Electricity and Gas Complaints Commissioner Scheme (EGCC) levies.

Recoverable costs include:

- IRIS incentive adjustments;
- Transpower charges;
- Distributed generation allowance;
- Claw back applied by the Commission;
- Costs relating to a CPP application;
- Auditor or verifier fees;
- Catastrophic event allowance;
- Extended reserves allowance; and
- Quality incentive adjustment.

Table 5: Pass-through and recoverable costs included in the 2022 forecast

Pass-through and recoverable costs	Total (\$000)
Council rates	2,121
Commission levies	769
Electricity Authority levies	998
Utilities Disputes levies	200
Capex IRIS incentive adjustment	1,008
Opex IRIS incentive adjustment	(2,590)
Transpower connection charges	16,020
Transpower interconnection charges	76,188
Transpower new investment charges	7,176
Distributed generation allowance (Avoided Costs of Transmission))	4,981
Quality incentive adjustment	479
Capex wash-up adjustment	595
Pass-through and recoverable costs₂₀₂₂	107,945

The Determination requires that forecast pass-through and recoverable costs are demonstrably reasonable.

Table 6 summarises the methodology Powerco has applied to determine its forecasts of pass-through and recoverable costs. It is Powerco’s opinion that all these methods deliver acceptable forecasts in the context they are used.

Table 6: Methodology to forecast pass-through and recoverable costs

Pass-through and recoverable costs	Forecasting methodology
Council rates	Forecast is a combination of current and proposed levy rates
Commission levies	Forecast is a combination of current and projected levy amounts
Electricity Authority levies	Forecast is based on historical costs
Utilities Dispute levies	Forecast is based on historical costs
IRIS incentive adjustments	Forecast using the Input Methodologies formula
Transpower connection charges	As notified by Transpower
Transpower interconnection charges	As notified by Transpower
Transpower new investment charges	As notified by Transpower
Distributed generation allowance (Avoided Costs of Transmission)	Based on demand levels and Transpower’s interconnection charge for 2021/22 pricing year
Quality incentive adjustment	Determined for 2020/21 regulatory year (adjusted for time value of money)
Capex wash-up adjustment	Forecast using the Input Methodologies formula

3.5 Opening wash-up account balance

Powerco moved to a revenue cap form of control under a CPP. This means variances between actual and forecast allowable revenue now also result in a wash-up balance in addition to variances between actual and forecast pass-through and recoverable costs. Powerco must calculate the wash-up amount for each assessment period using the methodology specified in schedule 1.6 of the Determination where:

- The 'opening wash-up account balance' for the fourth **assessment period** is the *closing wash-up account balance* of the third **assessment period**.
- The closing wash-up account balance for the third assessment period is the **wash-up amount** for the previous **assessment period** $\times (1 + 67^{\text{th}}$ **percentile estimate of post-tax WACC)².**

Table 7: Calculating the closing wash-up account balance for the third assessment period

Description	Total (\$000)
Wash-up amount ₂₀₂₀	4,211
+ adjustment for 67 th percentile estimate of post-tax WACC	627
Opening wash-up balance₂₀₂₂	4,838

4. Appendices

The following list of appendices provides further information supporting this Statement.

Appendix reference	Information provided
A – Compliance references	References the compliance requirements of the Determination and where they are evidenced in this Statement.
B – Prices and forecast quantities for pricing year 2022	Detailed schedules specifying prices and forecast quantities
C – Quantity forecasting	Calculating forecast revenue from prices requires a forecast of quantities

Appendix A – Compliance statement references

Determination clause	Determination requirement	Compliance statement reference
Price path		
8.4	The forecast revenue from prices for each assessment period must not exceed the forecast allowable revenue for the assessment period	Section 3.1
Annual price-setting compliance statement		
11.2 (a)	State whether Powerco has complied with the price path in clause 8 for the assessment period	Section 2
11.2 (b)	State the date on which the Statement was prepared	Cover
11.2 (c)	Include a certificate in the form set out in Schedule 6, signed by at least one director of Powerco	Section 1
11.3 (a)	Include Powerco's calculation of its forecast revenue from prices together with supporting information for all components of the calculation	Section 3.2, Appendix B & C
11.3 (b)	Include Powerco's calculation of its forecast allowable revenue together with supporting information for all components of the calculation	Sections 3.3-3.5
11.3 (c)	Include any reasons for non-compliance with the price path	N/a
11.3 (d)	Include actions taken to mitigate any non-compliance and to prevent similar non-compliance in future assessment periods	N/a

Appendix B – Prices and forecast quantities for pricing year 2022

The tables in this attachment contain our prices and forecast quantities.

Western network - distribution prices

Western Network					Distribution Prices FY22 (Period 1 April 2021 to 31 March 2022)									
					Fixed				Variable					Individually Priced
					Network Asset Charge				Volume Charge		Demand Charge			
Lookup	Tariff Group	GXP Group	GXP	Short GXP code	ICP \$/Month	ICP cents/day	Installed Capacity \$/kVA/Month	CT/VT Charge (\$/day)	On Peak c/kWh	Off Peak c/kWh	Dist-\$/kW /Month	Trans-\$/kW /Month	\$/kVAr /Month	Indirect Fixed (\$/ICP)
Residential+Small Commercial														
E1A	E1	A	Brunswick	BRK	14				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Brunswick	BRK	15	15.0000			7.0400	5.4200				
E1A	E1	A	Bunnythorpe	BPE	16				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Bunnythorpe	BPE	17	15.0000			7.0400	5.4200				
E1A	E1	A	Carrington	CST	18				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Carrington	CST	19	15.0000			7.0400	5.4200				
E1A	E1	A	Huirangi	HUI	20				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Huirangi	HUI	21	15.0000			7.0400	5.4200				
E1A	E1	A	Linton	LTN	22				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Linton	LTN	23	15.0000			7.0400	5.4200				
E1A	E1	A	Moturoa / New Plymouth	NPL	24				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Moturoa / New Plymouth	NPL	25	15.0000			7.0400	5.4200				
E1A	E1	A	Stratford	SFD	26				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Stratford	SFD	27	15.0000			7.0400	5.4200				
E1A	E1	A	Wanganui	WGN	28				7.0400	5.4200				
E1 - UCA	E1 - UC	A	Wanganui	WGN	29	15.0000			7.0400	5.4200				
Medium/Large Commercial														
E1B	E1	B	Greytown	GYT	31				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Greytown	GYT	32	15.0000			8.9100	7.2000				
E1B	E1	B	Hawera	HWA	33				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Hawera	HWA	34	15.0000			8.9100	7.2000				
E1B	E1	B	Mangamaire	MGM	35				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Mangamaire	MGM	36	15.0000			8.9100	7.2000				
E1B	E1	B	Marion	MTN	37				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Marion	MTN	38	15.0000			8.9100	7.2000				
E1B	E1	B	Masterton	MST	39				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Masterton	MST	40	15.0000			8.9100	7.2000				
E1B	E1	B	Mataroa	MTR	41				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Mataroa	MTR	42	15.0000			8.9100	7.2000				
E1B	E1	B	Ohakune	OKN	43				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Ohakune	OKN	44	15.0000			8.9100	7.2000				
E1B	E1	B	Opunake	OPK	45				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Opunake	OPK	46	15.0000			8.9100	7.2000				
E1B	E1	B	Waverley	WVY	47				8.9100	7.2000				
E1 - UCB	E1 - UC	B	Waverley	WVY	48	15.0000			8.9100	7.2000				
Special														
SPECIAL	SPECIAL		Asset Based										7.0000	138,997.93
SPECIAL	SPECIAL		Hau Nui Generation											115,902.75
SPECIAL	SPECIAL		Tararua Generation											253,647.67

Western network - transmission prices

Western Network					Transmission Prices FY22 (Period 1 April 2021 to 31 March 2022)									
					Fixed				Variable					Individually Priced
					Network Asset Charge				Volume Charge		Demand Charge			
Lookup	Tariff Group	GXP Group	GXP	Short GXP code	ICP \$/Month	ICP cents/day	Installed Capacity \$/kVA/Month	CT/VT Charge (\$/day)	On Peak c/kWh	Off Peak c/kWh	Dist-\$/kW /Month	Trans-\$/kW /Month	\$/kVAr /Month	Indirect Fixed (\$/ICP)
Residential+Small Commercial														
E1A	E1	A	Brunswick	BRK	105				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Brunswick	BRK	106				5.4800	1.0000				
E1A	E1	A	Bunnythorpe	BPE	107				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Bunnythorpe	BPE	108				5.4800	1.0000				
E1A	E1	A	Carrington	CST	109				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Carrington	CST	110				5.4800	1.0000				
E1A	E1	A	Huirangi	HUI	111				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Huirangi	HUI	112				5.4800	1.0000				
E1A	E1	A	Linton	LTN	113				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Linton	LTN	114				5.4800	1.0000				
E1A	E1	A	Moturoa / New Plymouth	NPL	115				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Moturoa / New Plymouth	NPL	116				5.4800	1.0000				
E1A	E1	A	Stratford	SFD	117				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Stratford	SFD	118				5.4800	1.0000				
E1A	E1	A	Wanganui	WGN	119				5.4800	1.0000				
E1 - UCA	E1 - UC	A	Wanganui	WGN	120				5.4800	1.0000				
Medium/Large Commercial														
E1B	E1	B	Greytown	GYT	122				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Greytown	GYT	123				5.0900	1.0000				
E1B	E1	B	Hawera	HWA	124				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Hawera	HWA	125				5.0900	1.0000				
E1B	E1	B	Mangamaire	MGM	126				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Mangamaire	MGM	127				5.0900	1.0000				
E1B	E1	B	Marion	MTN	128				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Marion	MTN	129				5.0900	1.0000				
E1B	E1	B	Masterton	MST	130				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Masterton	MST	131				5.0900	1.0000				
E1B	E1	B	Mataroa	MTR	132				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Mataroa	MTR	133				5.0900	1.0000				
E1B	E1	B	Ohakune	OKN	134				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Ohakune	OKN	135				5.0900	1.0000				
E1B	E1	B	Opunake	OPK	136				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Opunake	OPK	137				5.0900	1.0000				
E1B	E1	B	Waverley	WVY	138				5.0900	1.0000				
E1 - UCB	E1 - UC	B	Waverley	WVY	139				5.0900	1.0000				
Medium/Large Commercial														
E100A	E100	A	Carrington	CST	142							0.3865		
E100A	E100	A	Huirangi	HUI	143							0.3865		
E100A	E100	A	Moturoa / New Plymouth	NPL	144							0.3865		
E100A	E100	A	Stratford	SFD	145							0.3865		
E100B	E100	B	Hawera	HWA	146							0.4095		
E100C	E100	C	Waverley	WVY	147							0.4095		
E100D	E100	D	Opunake	OPK	148							0.4095		
E100E	E100	E	Brunswick	BRK	149							0.3325		
E100E	E100	E	Wanganui	WGN	150							0.3325		
E100F	E100	F	Marion	MTN	151							0.3125		
E100G	E100	G	Mataroa	MTR	152							0.4095		
E100G	E100	G	Ohakune	OKN	153							0.4095		
E100H	E100	H	Masterton	MST	154							0.4215		
E100H	E100	H	Greytown	GYT	155							0.4215		
E100I	E100	I	Bunnythorpe	BPE	156							0.3295		
E100I	E100	I	Linton	LTN	157							0.3295		
E100J	E100	J	Mangamaire	MGM	158							0.4215		
Medium/Large Commercial														
E300A	E300	A	Carrington	CST	160							0.3865		
E300A	E300	A	Huirangi	HUI	161							0.3865		
E300A	E300	A	Moturoa / New Plymouth	NPL	162							0.3865		
E300A	E300	A	Stratford	SFD	163							0.3865		
E300B	E300	B	Hawera	HWA	164							0.4095		
E300C	E300	C	Waverley	WVY	165							0.4095		
E300D	E300	D	Opunake	OPK	166							0.4095		
E300E	E300	E	Brunswick	BRK	167							0.3325		
E300E	E300	E	Wanganui	WGN	168							0.3325		
E300F	E300	F	Marion	MTN	169							0.3125		
E300G	E300	G	Mataroa	MTR	170							0.4095		
E300G	E300	G	Ohakune	OKN	171							0.4095		
E300H	E300	H	Masterton	MST	172							0.4215		
E300H	E300	H	Greytown	GYT	173							0.4215		
E300I	E300	I	Bunnythorpe	BPE	174							0.3295		
E300I	E300	I	Linton	LTN	175							0.3295		
E300J	E300	J	Mangamaire	MGM	176							0.4215		
SPECIAL	SPECIAL		Asset Based											154,320.33
SPECIAL	SPECIAL		Hau Nui Generation											
SPECIAL	SPECIAL		Tararua Generation											

Western network - quantities

Western Network					Quantities FY22 (1 April 2021 to 31 March 2022)										
Lookup	Tariff Group	GXP Group	GXP	Short GXP code	ICP No.'s (Average)	ICP Days	ICP Months	kVA Installed	CT/VTs	kWh On peak	kWh Off Peak	kW Demand (AMD for E100/E300)	OPD (kW)	kVA Demand	
Residential+Small Commercial															
E1A	E1	A	Brunswick	BRK	14	5,927	2,163,527	-	-	13,619,800	31,314,469	114,554	-	-	
E1 - UCA	E1 - UC	A	Brunswick	BRK	15	6,633	2,420,959	-	-	15,240,377	35,040,481	128,184	-	-	
E1A	E1	A	Bunnythorpe	BPE	16	14,704	5,367,078	-	-	43,667,521	99,824,005	326,172	-	-	
E1 - UCA	E1 - UC	A	Bunnythorpe	BPE	17	19,350	7,062,815	-	-	57,464,351	131,363,575	429,227	-	-	
E1A	E1	A	Carrington	CST	18	11,172	4,077,714	-	-	27,644,234	62,134,524	211,014	-	-	
E1 - UCA	E1 - UC	A	Carrington	CST	19	17,561	6,409,675	-	-	43,453,405	97,667,985	331,689	-	-	
E1A	E1	A	Huirangi	HUI	20	4,287	1,564,815	-	-	9,295,261	23,501,728	81,863	-	-	
E1 - UCA	E1 - UC	A	Huirangi	HUI	21	5,876	2,144,772	-	-	12,740,297	32,212,004	112,203	-	-	
E1A	E1	A	Linton	LTN	22	7,349	2,682,436	-	-	18,884,565	44,475,097	162,627	-	-	
E1 - UCA	E1 - UC	A	Linton	LTN	23	10,952	3,997,542	-	-	28,143,024	66,279,724	242,357	-	-	
E1A	E1	A	Moturoa / New Plymouth	NPL	24	-	-	-	-	-	-	-	-	-	
E1 - UCA	E1 - UC	A	Moturoa / New Plymouth	NPL	25	-	-	-	-	-	-	-	-	-	
E1A	E1	A	Stratford	SFD	26	3,772	1,376,890	-	-	15,072,214	34,139,294	118,732	-	-	
E1 - UCA	E1 - UC	A	Stratford	SFD	27	4,601	1,679,188	-	-	18,381,337	41,634,620	144,799	-	-	
E1A	E1	A	Wanganui	WGN	28	4,569	1,667,788	-	-	11,078,924	25,608,210	99,986	-	-	
E1 - UCA	E1 - UC	A	Wanganui	WGN	29	5,375	1,961,995	-	-	13,033,310	30,125,645	117,624	-	-	
E1B	E1	B	Greytown	GYT	31	3,047	1,112,104	-	-	8,669,193	22,756,836	63,482	-	-	
E1 - UCB	E1 - UC	B	Greytown	GYT	32	4,259	1,554,518	-	-	12,117,949	31,809,903	89,737	-	-	
E1B	E1	B	Hawera	HWA	33	2,785	1,016,486	-	-	7,888,283	19,588,800	60,837	-	-	
E1 - UCB	E1 - UC	B	Hawera	HWA	34	6,560	2,394,480	-	-	18,582,009	46,144,240	142,840	-	-	
E1B	E1	B	Mangamaire	MGM	35	1,909	696,904	-	-	5,341,505	12,572,370	39,082	-	-	
E1 - UCB	E1 - UC	B	Mangamaire	MGM	36	2,410	879,680	-	-	6,742,417	15,869,715	49,332	-	-	
E1B	E1	B	Marton	MTN	37	3,834	1,399,324	-	-	11,056,989	27,286,370	80,167	-	-	
E1 - UCB	E1 - UC	B	Marton	MTN	38	2,434	888,506	-	-	7,020,680	17,325,590	50,902	-	-	
E1B	E1	B	Masterton	MST	39	9,634	3,516,513	-	-	25,382,684	61,238,245	180,115	-	-	
E1 - UCB	E1 - UC	B	Masterton	MST	40	9,060	3,306,891	-	-	23,869,598	57,587,775	169,378	-	-	
E1B	E1	B	Mataroa	MTR	41	1,655	604,228	-	-	4,160,399	10,131,315	32,639	-	-	
E1 - UCB	E1 - UC	B	Mataroa	MTR	42	1,118	408,213	-	-	2,810,738	6,844,650	21,983	-	-	
E1B	E1	B	Ohakune	OKN	43	609	222,127	-	-	1,464,222	3,614,135	11,332	-	-	
E1 - UCB	E1 - UC	B	Ohakune	OKN	44	595	217,346	-	-	1,432,707	3,536,347	11,088	-	-	
E1B	E1	B	Opunake	OPK	45	984	359,301	-	-	3,617,164	9,603,272	35,882	-	-	
E1 - UCB	E1 - UC	B	Opunake	OPK	46	2,092	763,468	-	-	7,686,011	20,405,725	76,244	-	-	
E1B	E1	B	Waverley	WVY	47	-	-	-	-	-	-	-	-	-	
E1 - UCB	E1 - UC	B	Waverley	WVY	48	1,360	496,475	-	-	4,438,600	11,773,524	38,407	-	-	
Medium/Large Commercial															
E100A	E100	A	Carrington	CST	51	-	14,707	458	-	-	-	-	-	-	-
E100A	E100	A	Huirangi	HUI	52	9	3,677	108	-	1	-	1,651,992	792,353	3,769	
E100A	E100	A	Moturoa / New Plymouth	NPL	53	-	-	-	-	-	-	426,143	98,906	2,654	
E100A	E100	A	Stratford	SFD	54	8	3,309	96	-	-	-	409,229	169,133	1,563	
E100B	E100	B	Hawera	HWA	55	10	3,677	120	-	-	-	422,098	196,709	1,672	
E100C	E100	C	Waverley	WVY	56	-	735	-	-	-	-	33,827	9,927	3	
E100D	E100	D	Opunake	OPK	57	1	368	12	-	-	-	55,888	9,192	351	
E100E	E100	E	Brunswick	BRK	58	10	3,677	120	-	-	-	500,046	265,834	918	
E100E	E100	E	Wanganui	WGN	59	9	3,309	108	-	-	-	302,602	154,794	971	
E100F	E100	F	Marton	MTN	60	5	2,206	60	-	-	-	281,276	142,660	689	
E100G	E100	G	Mataroa	MTR	61	4	1,471	48	-	-	-	258,480	129,791	824	
E100G	E100	G	Ohakune	OKN	62	-	-	-	-	-	-	-	-	-	
E100H	E100	H	Masterton	MST	63	23	8,457	277	-	-	-	1,030,978	484,971	3,357	
E100H	E100	H	Greytown	GYT	64	5	1,838	60	-	-	-	236,419	134,204	1,354	
E100I	E100	I	Bunnythorpe	BPE	65	62	21,326	747	-	1	-	2,644,731	1,394,982	6,633	
E100J	E100	I	Linton	LTN	66	33	13,604	398	-	-	-	1,464,474	655,576	4,941	
E100J	E100	J	Mangamaire	MGM	67	2	735	24	-	-	-	102,215	35,297	894	
E300A	E300	A	Carrington	CST	69	-	-	37,320	11	-	-	5,904,535	2,435,808	9,696	
E300A	E300	A	Huirangi	HUI	70	-	-	13,110	3	-	-	2,602,645	1,464,492	3,222	
E300A	E300	A	Moturoa / New Plymouth	NPL	71	-	-	-	-	-	-	-	-	-	
E300A	E300	A	Stratford	SFD	72	-	-	7,133	-	-	-	1,400,324	313,139	5,665	
E300B	E300	B	Hawera	HWA	73	-	-	5,877	1	-	-	1,168,220	566,143	1,372	
E300C	E300	C	Waverley	WVY	74	-	-	1,507	-	-	-	423,141	260,338	-	
E300D	E300	D	Opunake	OPK	75	-	-	3,014	2	-	-	539,743	219,637	4,223	
E300E	E300	E	Brunswick	BRK	76	-	-	10,146	2	-	-	1,814,298	1,032,918	3,956	
E300E	E300	E	Wanganui	WGN	77	-	-	21,347	5	-	-	3,514,194	1,769,930	7,965	
E300F	E300	F	Marton	MTN	78	-	-	7,484	1	-	-	1,334,323	512,609	3,980	
E300G	E300	G	Mataroa	MTR	79	-	-	3,014	-	-	-	556,976	401,874	316	
E300G	E300	G	Ohakune	OKN	80	-	-	-	-	-	-	-	-	-	
E300H	E300	H	Masterton	MST	81	-	-	14,265	1	-	-	2,655,812	1,348,256	4,688	
E300H	E300	H	Greytown	GYT	82	-	-	1,155	-	-	-	202,037	35,567	957	
E300I	E300	I	Bunnythorpe	BPE	83	-	-	49,405	13	-	-	8,723,516	4,346,908	13,956	
E300I	E300	I	Linton	LTN	84	-	-	23,146	4	-	-	4,105,270	2,072,069	6,144	
E300J	E300	J	Mangamaire	MGM	85	-	-	753	1	-	-	37,074	13,567	533	
SPECIAL	SPECIAL		Asset Based			32	-	-	-	-	-	-	-	22,275	
SPECIAL	SPECIAL		Hau Nui Generation			1	-	-	-	-	-	-	-	-	
SPECIAL	SPECIAL		Taranua Generation			1	-	-	-	-	-	-	-	-	
Western Region Total						176,730	64,496,853	2,639	198,676	46	479,999,778	1,133,410,175	48,575,644	21,467,586	119,540

Western network - transmission revenue

Western Network						Transmission Revenue (FY22 Prices)					
Lookup	Tariff Group	GXP Group	GXP	Short GXP code		Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
Residential+Small Commercial											
E1A	E1	A	Brunswick	BRK	105	-	-	1,059,510	-	-	1,059,510
E1 - UCA	E1 - UC	A	Brunswick	BRK	106	-	-	1,185,577	-	-	1,185,577
E1A	E1	A	Bunnythorpe	BPE	107	-	-	3,391,220	-	-	3,391,220
E1 - UCA	E1 - UC	A	Bunnythorpe	BPE	108	-	-	4,462,682	-	-	4,462,682
E1A	E1	A	Carrington	CST	109	-	-	2,136,249	-	-	2,136,249
E1 - UCA	E1 - UC	A	Carrington	CST	110	-	-	3,357,926	-	-	3,357,926
E1A	E1	A	Huirangi	HUI	111	-	-	744,398	-	-	744,398
E1 - UCA	E1 - UC	A	Huirangi	HUI	112	-	-	1,020,288	-	-	1,020,288
E1A	E1	A	Linton	LTN	113	-	-	1,479,625	-	-	1,479,625
E1 - UCA	E1 - UC	A	Linton	LTN	114	-	-	2,205,035	-	-	2,205,035
E1A	E1	A	Moturoa / New Plymouth	NPL	115	-	-	-	-	-	-
E1 - UCA	E1 - UC	A	Moturoa / New Plymouth	NPL	116	-	-	-	-	-	-
E1A	E1	A	Stratford	SFD	117	-	-	1,167,350	-	-	1,167,350
E1 - UCA	E1 - UC	A	Stratford	SFD	118	-	-	1,423,643	-	-	1,423,643
E1A	E1	A	Wanganui	WGN	119	-	-	863,207	-	-	863,207
E1 - UCA	E1 - UC	A	Wanganui	WGN	120	-	-	1,015,482	-	-	1,015,482
Medium/Large Commercial											
E1B	E1	B	Greytown	GYT	122	-	-	668,830	-	-	668,830
E1 - UCB	E1 - UC	B	Greytown	GYT	123	-	-	934,903	-	-	934,903
E1B	E1	B	Hawera	HWA	124	-	-	597,402	-	-	597,402
E1 - UCB	E1 - UC	B	Hawera	HWA	125	-	-	1,407,267	-	-	1,407,267
E1B	E1	B	Mangamaire	MGM	126	-	-	397,606	-	-	397,606
E1 - UCB	E1 - UC	B	Mangamaire	MGM	127	-	-	501,886	-	-	501,886
E1B	E1	B	Marton	MTN	128	-	-	835,664	-	-	835,664
E1 - UCB	E1 - UC	B	Marton	MTN	129	-	-	530,608	-	-	530,608
E1B	E1	B	Masterton	MST	130	-	-	1,904,361	-	-	1,904,361
E1 - UCB	E1 - UC	B	Masterton	MST	131	-	-	1,790,840	-	-	1,790,840
E1B	E1	B	Mataroa	MTR	132	-	-	313,077	-	-	313,077
E1 - UCB	E1 - UC	B	Mataroa	MTR	133	-	-	211,513	-	-	211,513
E1B	E1	B	Ohakune	OKN	134	-	-	110,670	-	-	110,670
E1 - UCB	E1 - UC	B	Ohakune	OKN	135	-	-	108,288	-	-	108,288
E1B	E1	B	Opunake	OPK	136	-	-	280,146	-	-	280,146
E1 - UCB	E1 - UC	B	Opunake	OPK	137	-	-	595,275	-	-	595,275
E1B	E1	B	Waverley	WVY	138	-	-	-	-	-	-
E1 - UCB	E1 - UC	B	Waverley	WVY	139	-	-	343,660	-	-	343,660
E100A	E100	A	Carrington	CST	142	-	-	-	306,244	-	306,244
E100A	E100	A	Huirangi	HUI	143	-	-	-	38,227	-	38,227
E100A	E100	A	Moturoa / New Plymouth	NPL	144	-	-	-	-	-	-
E100A	E100	A	Stratford	SFD	145	-	-	-	65,370	-	65,370
E100B	E100	B	Hawera	HWA	146	-	-	-	80,553	-	80,553
E100C	E100	C	Waverley	WVY	147	-	-	-	4,065	-	4,065
E100D	E100	D	Opunake	OPK	148	-	-	-	3,764	-	3,764
E100E	E100	E	Brunswick	BRK	149	-	-	-	88,390	-	88,390
E100E	E100	E	Wanganui	WGN	150	-	-	-	51,469	-	51,469
E100F	E100	F	Marton	MTN	151	-	-	-	44,581	-	44,581
E100G	E100	G	Mataroa	MTR	152	-	-	-	53,150	-	53,150
E100G	E100	G	Ohakune	OKN	153	-	-	-	-	-	-
E100H	E100	H	Masterton	MST	154	-	-	-	204,415	-	204,415
E100H	E100	H	Greytown	GYT	155	-	-	-	56,567	-	56,567
E100I	E100	I	Bunnythorpe	BPE	156	-	-	-	459,647	-	459,647
E100I	E100	I	Linton	LTN	157	-	-	-	216,012	-	216,012
E100J	E100	J	Mangamaire	MGM	158	-	-	-	14,878	-	14,878
E300A	E300	A	Carrington	CST	160	-	-	-	941,440	-	941,440
E300A	E300	A	Huirangi	HUI	161	-	-	-	566,026	-	566,026
E300A	E300	A	Moturoa / New Plymouth	NPL	162	-	-	-	-	-	-
E300A	E300	A	Stratford	SFD	163	-	-	-	121,028	-	121,028
E300B	E300	B	Hawera	HWA	164	-	-	-	231,836	-	231,836
E300C	E300	C	Waverley	WVY	165	-	-	-	106,608	-	106,608
E300D	E300	D	Opunake	OPK	166	-	-	-	89,941	-	89,941
E300E	E300	E	Brunswick	BRK	167	-	-	-	343,445	-	343,445
E300E	E300	E	Wanganui	WGN	168	-	-	-	588,502	-	588,502
E300F	E300	F	Marton	MTN	169	-	-	-	160,190	-	160,190
E300G	E300	G	Mataroa	MTR	170	-	-	-	164,567	-	164,567
E300G	E300	G	Ohakune	OKN	171	-	-	-	-	-	-
E300H	E300	H	Masterton	MST	172	-	-	-	568,290	-	568,290
E300H	E300	H	Greytown	GYT	173	-	-	-	14,992	-	14,992
E300I	E300	I	Bunnythorpe	BPE	174	-	-	-	1,432,306	-	1,432,306
E300I	E300	I	Linton	LTN	175	-	-	-	682,747	-	682,747
E300J	E300	J	Mangamaire	MGM	176	-	-	-	5,718	-	5,718
SPECIAL	SPECIAL		Asset Based			-	-	-	-	4,960,885	4,960,885
SPECIAL	SPECIAL		Hau Nui Generation			-	-	-	-	-	-
SPECIAL	SPECIAL		Tararua Generation			-	-	-	-	-	-
Western Region Total						-	-	37,044,193	7,704,969	4,960,885	49,710,047

Eastern network - distribution prices

Eastern Network				Distribution Prices FY22 (Period 1 April 2021 to 31 March 2022)																				Individually Priced	
				Fixed		Variable														Demand Charge					
				Network Asset Charge		Volume Charge																			
				ICP \$/Month	ICP cents/day	Uncontrolled c/kWh	All Inclusive c/kWh	Controlled c/kWh	Night Only c/kWh	Night Rate c/kWh	On Peak Uncontrolled c/kWh	Off Peak Uncontrolled c/kWh	On Peak All Inclusive c/kWh	Off Peak All Inclusive c/kWh	Summer Day c/kWh	Summer Night c/kWh	Winter Day c/kWh	Winter Night c/kWh	Winter AM Peak c/kWh	Winter PM Peak c/kWh	\$/kW /Month	\$/kVA /Month	ABP (\$/AMD, value)		
Residential+Small Commercial						24UC	AICO	CTRL	NITE	CTUN	PEAK	OFFPK	PKCN	OPCN	TS/1	TS/2	TW/1/3/5	TW/6	TW/2	TW/4					
V05	V05	Valley	Low Usage - Controlled	15.0000		7.5700	7.5400	5.7800	5.6000	7.1500															
V05S	V05S	Valley	Low Usage - TOU	15.0000		7.5700	7.5400	5.7800	5.6000	7.1500	7.5700	7.0700	7.8100	6.9600											
V06	V06	Valley	Residential - Standard Controlled	85.0000		4.3800	4.3500	2.5900	2.4100	7.1500															
V06S	V06S	Valley	Residential - Standard TOU	85.0000		4.3800	4.3500	2.5900	2.4100	7.1500	4.3800	3.8800	4.6200	3.7700											
Tauranga																									
T05	T05	Tauranga	Low Usage - Controlled	15.0000		6.6400	6.8600	5.4400	5.2200	6.9300															
T05S	T05S	Tauranga	Low Usage - TOU	15.0000		6.6400	6.8600	5.4400	5.2200	6.9300	6.6400	6.1400	7.0600	6.0500											
T06	T06	Tauranga	Standard Residential & Commercial - Controlled	85.0000		3.4500	3.6700	2.2500	2.0300	6.9300															
T06S	T06S	Tauranga	Standard Residential & Commercial - TOU	85.0000		3.4500	3.6700	2.2500	2.0300	6.9300	3.4500	2.9500	3.8700	2.8600											
Unmetered Supply																									
V01	V01	Valley	Unmetered/Streetlighting			7.1500																			
V02	V02	Valley	Unmetered/Streetlighting			9.7400																			
Tauranga																									
T01	T01	Tauranga	Unmetered/Streetlighting			6.9300																			
T02	T02	Tauranga	Unmetered/Streetlighting			9.8200																			
Medium Commercial																									
V24	V24	Valley	Commercial three phase 100A	991.0000		3.7100																7.0000			
V28	V28	Valley	> 200 Amp up to 299 kVA	2,600.0000		3.0400																7.0000			
Tauranga																									
T22	T22	Tauranga	Capacity 100 – 199kVA	999.0000		4.3000		2.2400	2.3300													7.0000			
T24	T24	Tauranga	Capacity 200 -299kVA	2,500.0000		3.1600																7.0000			
T41	T41	Tauranga	capacity 200 kVA unitised	2,500.0000		3.1600								3.1600	3.1600	3.1600	3.1600	3.1600	3.1600			7.0000			
Large Commercial / Industrial																									
V40	V40	Valley	Individual ICP prices																			7.0000			
V60	V60	Valley	Individual ICP prices																			7.0000			
V601	V601	Kinleith	Individual ICP prices																			7.0000			
Tauranga																									
T50	T50	Tauranga	Individual ICP prices																			7.0000			
T60	T601	Tauranga	Individual ICP prices																			7.0000			

Eastern network - transmission prices

Eastern Network				Transmission Prices FY22 (Period 1 April 2021 to 31 March 2022)																		Individually Priced		
				Fixed		Variable														Demand Charge				
				Network Asset Charge		Volume Charge																		
Tariff Group	Network Group	Tariff Description	ICP \$/Month	ICP cents/day	Uncontrolled c/kWh	All Inclusive c/kWh	Controlled c/kWh	Night Only c/kWh	Night Rate c/kWh	On Peak Uncontrolled c/kWh	Off Peak Uncontrolled c/kWh	On Peak All Inclusive c/kWh	Off Peak All Inclusive c/kWh	Summer Day c/kWh	Summer Night c/kWh	Winter Day c/kWh	Winter Night c/kWh	Winter AM Peak c/kWh	Winter PM Peak c/kWh	\$/kW /Month	\$/kVA /Month	ABP (\$/AMD, value)	Indirect Fixed (\$/ICP)	
Residential+Small Commercial						24UC	AICO	CTRL	NITE	CTUN	PEAK	OFFPK	PKCN	OPCN	TS/1	TS/2	TW/1/3/5	TW/6	TW/2	TW/4				
V05	V05	Valley	Low Usage - Controlled			2.9000	2.6200	1.8700	0.5000	3.8600														
V05S	V05S	Valley	Low Usage - TOU			2.9000	2.6200	1.8700	0.5000	3.8600	9.1700	0.5000	8.4800	0.5000										
V06	V06	Valley	Residential - Standard Controlled			2.9000	2.6200	1.8700	0.5000	3.8600														
V06S	V06S	Valley	Residential - Standard TOU			2.9000	2.6200	1.8700	0.5000	3.8600	9.1700	0.5000	8.4800	0.5000										
T05	T05	Tauranga	Low Usage - Controlled			3.2600	2.6400	1.2500	0.5000	3.5700														
T05S	T05S	Tauranga	Low Usage - TOU			3.2600	2.6400	1.2500	0.5000	3.5700	9.3300	0.5000	8.4500	0.5000										
T06	T06	Tauranga	Standard Residential & Commercial - Controlled			3.2600	2.6400	1.2500	0.5000	3.5700														
T06S	T06S	Tauranga	Standard Residential & Commercial - TOU			3.2600	2.6400	1.2500	0.5000	3.5700	9.3300	0.5000	8.4500	0.5000										
Unmetered Supply																								
V01	V01	Valley	Unmetered/Streetlighting			3.8600																		
V02	V02	Valley	Unmetered/Streetlighting		5.5700																			
T01	T01	Tauranga	Unmetered/Streetlighting			3.5700																		
T02	T02	Tauranga	Unmetered/Streetlighting		5.4800																			
Medium Commercial																								
V24	V24	Valley	Commercial three phase 100A			2.3400																		
V28	V28	Valley	> 200 Amp up to 299 kVA			1.7100																		
T22	T22	Tauranga	Capacity 100 – 199kVA			2.0800		1.2500	0.5000															
T24	T24	Tauranga	Capacity 200 -299kVA			1.5000																		
T41	T41	Tauranga	capacity 200 kVA utilised			1.5000								1.5000	1.5000	1.5000	1.5000	1.5000	1.5000					
Large Commercial / Industrial																								
V40	V40	Valley	Individual ICP prices																					14,817.48
V60	V60	Valley	Individual ICP prices																					189,733.53
V601	V601	Kinleith	Individual ICP prices																					4,395,455.32
T50	T50	Tauranga	Individual ICP prices																					15,376.51
T60	T601	Tauranga	Individual ICP prices																					118,006.22

Eastern network - quantities

				Quantities FY22 (1 April 2021 to 31 March 2022)																				
Eastern Network				ICP No.'s (Average)	ICP Days	kWh Uncontrolled	kWh All Inclusive	kWh Controlled	kWh Nite Only	kWh Day	kWh Night	kWh Uncontrolled On peak	kWh Uncontrolled Off Peak	kWh All Inclusive On Peak	kWh All Inclusive Off Peak	Distributed Generation	kWh Summer Day	kWh Summer Night	kWh Winter Day	kWh Winter Night	kWh Winter AM Peak	kWh Winter PM Peak	kVAr Demand pa	
Tariff Group	Network Group	Tariff Description				24UC	AICO	CTRL	NITE	CTUD	CTUN	PEAK	OFFPK	PKCN	OPCN	24DG	TS/1	TS/2	TW/1/3/5	TW/6	TW/2	TW/4		
Residential+Small Commercial																								
V05	V05	Valley	Low Usage - Controlled	2,834	1,034,483	9,992,810	1,102,872	2,348,687	103,081	-	-	-	-	-	-	81,957	-	-	-	-	-	-	-	-
V05S	V05S	Valley	Low Usage - TOU	34,180	12,475,604	22,562,999	1,269,081	32,286,411	310,536	-	-	29,751,074	69,562,658	1,432,442	3,294,420	825,050	-	-	-	-	-	-	-	-
V06	V06	Valley	Residential - Standard Controlled	4,792	1,748,910	43,456,309	6,698,931	3,324,310	415,445	-	154	-	-	-	-	-	-	-	-	-	-	-	-	-
V06S	V06S	Valley	Residential - Standard TOU	30,803	11,243,201	102,636,372	6,008,612	33,948,626	2,667,476	-	-	57,615,148	136,872,249	2,761,475	6,368,494	715,161	-	-	-	-	-	-	-	-
Tauranga																								
T05	T05	Tauranga	Low Usage - Controlled	7,483	2,731,170	20,656,314	8,720,609	6,478,605	1,251,506	-	-	-	-	-	-	407,797	-	-	-	-	-	-	-	-
T05S	T05S	Tauranga	Low Usage - TOU	25,250	9,216,259	15,540,905	3,744,690	27,672,354	2,768,445	-	-	21,780,542	47,044,690	4,793,101	9,777,203	1,231,467	-	-	-	-	-	-	-	-
T06	T06	Tauranga	Standard Residential & Commercial - Controlled	18,315	6,684,813	125,913,339	19,650,895	20,184,607	1,973,501	-	39,304	-	-	-	-	568,156	-	-	-	-	-	-	-	-
T06S	T06S	Tauranga	Standard Residential & Commercial - TOU	37,655	13,744,202	62,883,638	7,975,724	58,647,361	3,410,942	-	10,549	51,624,680	116,119,437	8,257,797	17,205,917	1,461,728	-	-	-	-	-	-	-	-
Unmetered Supply																								
V01	V01	Valley	Unmetered/Streetlighting	-	-	344,981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
V02	V02	Valley	Unmetered/Streetlighting	11,846	4,323,677	488,732	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tauranga																								
T01	T01	Tauranga	Unmetered/Streetlighting	-	-	2,115,857	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T02	T02	Tauranga	Unmetered/Streetlighting	13,941	5,088,491	5,336,257	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Medium Commercial																								
V24	V24	Valley	Commercial three phase 100A	535	195,293	67,092,063	-	-	-	-	-	-	-	-	-	10,663	-	-	-	-	-	-	-	-
V28	V28	Valley	> 200 Amp up to 299 kVA	46	16,653	11,536,814	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,094
Tauranga																								
T22	T22	Tauranga	Capacity 100 – 199kVA	649	236,973	61,523,946	-	308,109	341,174	-	-	-	-	-	7,679	-	-	-	-	-	-	-	-	-
T24	T24	Tauranga	Capacity 200 -299kVA	58	21,272	9,306,345	-	-	-	-	-	-	-	-	1,348	-	-	-	-	-	-	-	-	-
T41	T41	Tauranga	capacity 200 kVA unitised	85	30,974	-	-	-	-	-	-	-	-	-	-	-	11,426,861	3,746,885	5,094,428	2,791,147	1,753,307	1,464,023	9,615	
Large Commercial / Industrial																								
V40	V40	Valley	Individual ICP prices	88	-	62,149,132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,005
V60	V60	Valley	Individual ICP prices	24	-	282,151,071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34,407
V601	V601	Kinleith	Individual ICP prices	1	-	315,201,572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tauranga																								
T50	T50	Tauranga	Individual ICP prices	220	-	177,496,454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37,716
T60	T601	Tauranga	Individual ICP prices	33	-	186,330,060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,299

Eastern network - distribution revenue

Eastern Network				Distribution Revenue (FY22 Prices)					
				Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
Tariff Group	Network Group	Tariff Description							
Residential+Small Commercial									
V05	V05	Valley	Low Usage - Controlled	-	155,173	981,139	-	-	1,136,311
V05S	V05S	Valley	Low Usage - TOU	-	1,871,341	11,198,654	-	-	13,069,995
V06	V06	Valley	Residential - Standard Controlled	-	1,486,573	2,290,913	-	-	3,777,486
V06S	V06S	Valley	Residential - Standard TOU	-	9,556,721	13,902,260	-	-	23,458,980
Unmetered Supply									
V01	V01	Valley	Unmetered/Streetlighting	-	-	24,666	-	-	24,666
V02	V02	Valley	Unmetered/Streetlighting	-	421,126	-	-	-	421,126
Medium Commercial									
T01	T01	Tauranga	Unmetered/Streetlighting	-	-	146,629	-	-	146,629
T02	T02	Tauranga	Unmetered/Streetlighting	-	499,690	-	-	-	499,690
V24	V24	Valley	Commercial three phase 100A	-	1,935,351	2,489,116	-	-	4,424,467
V28	V28	Valley	> 200 Amp up to 299 kVA	-	432,975	350,719	7,661	-	791,355
T22	T22	Tauranga	Capacity 100 – 199kVA	-	2,367,360	2,660,381	-	-	5,027,741
T24	T24	Tauranga	Capacity 200 -299kVA	-	531,790	294,081	-	-	825,870
T41	T41	Tauranga	capacity 200 kVA unitised	-	774,361	830,342	67,307	-	1,672,010
Large Commercial / Industrial									
V40	V40	Valley	Individual ICP prices	-	-	-	133,033	2,389,492	2,522,524
V60	V60	Valley	Individual ICP prices	-	-	-	240,850	3,244,303	3,485,152
V601	V601	Kinleith		-	-	-	-	3,397,610	3,397,610
T50	T50	Tauranga	Individual ICP prices	-	-	-	264,014	5,723,614	5,987,629
T60	T601	Tauranga	Individual ICP prices	-	-	-	219,090	4,040,320	4,259,411
Eastern Region Total				-	39,189,237	61,191,964	931,956	18,795,339	120,108,496

Eastern network - transmission revenue

Eastern Network				Transmission Revenue (FY22 Prices)					
				Fixed (Monthly)	Fixed (Daily)	Variable	Demand	Non-standard	Total
Tariff Group	Network Group	Tariff Description							
Residential+Small Commercial									
V05	V05	Valley	Low Usage - Controlled	-	-	363,123	-	-	363,123
V05S	V05S	Valley	Low Usage - TOU	-	-	4,506,815	-	-	4,506,815
V06	V06	Valley	Residential - Standard Controlled	-	-	1,499,993	-	-	1,499,993
V06S	V06S	Valley	Residential - Standard TOU	-	-	10,015,741	-	-	10,015,741
Tauranga									
T05	T05	Tauranga	Low Usage - Controlled	-	-	990,860	-	-	990,860
T05S	T05S	Tauranga	Low Usage - TOU	-	-	3,686,491	-	-	3,686,491
T06	T06	Tauranga	Standard Residential & Commercial - Controlled	-	-	4,887,137	-	-	4,887,137
T06S	T06S	Tauranga	Standard Residential & Commercial - TOU	-	-	9,192,082	-	-	9,192,082
Unmetered Supply									
V01	V01	Valley	Unmetered/Streetlighting	-	-	13,316	-	-	13,316
V02	V02	Valley	Unmetered/Streetlighting	-	240,829	-	-	-	240,829
				-	-	-	-	-	-
T01	T01	Tauranga	Unmetered/Streetlighting	-	-	75,536	-	-	75,536
T02	T02	Tauranga	Unmetered/Streetlighting	-	278,849	-	-	-	278,849
Medium Commercial									
V24	V24	Valley	Commercial three phase 100A	-	-	1,569,954	-	-	1,569,954
V28	V28	Valley	> 200 Amp up to 299 kVA	-	-	197,280	-	-	197,280
Tauranga									
T22	T22	Tauranga	Capacity 100 – 199kVA	-	-	1,285,255	-	-	1,285,255
T24	T24	Tauranga	Capacity 200 -299kVA	-	-	139,595	-	-	139,595
T41	T41	Tauranga	capacity 200 kVA unitised	-	-	394,150	-	-	394,150
Large Commercial / Industrial									
V40	V40	Valley	Individual ICP prices	-	-	-	-	1,303,356	1,303,356
V60	V60	Valley	Individual ICP prices	-	-	-	-	4,603,891	4,603,891
V601	V601	Kinleith	Individual ICP prices	-	-	-	-	4,395,455	4,395,455
Tauranga									
T50	T50	Tauranga	Individual ICP prices	-	-	-	-	3,381,344	3,381,344
T60	T601	Tauranga	Individual ICP prices	-	-	-	-	3,928,203	3,928,203
Eastern Region Total				-	519,678	38,817,329	-	17,612,249	56,949,256

Appendix C – Quantity forecasting

Quantity forecasting underpins the calculation of forecast revenue from prices. Because prices have fixed and variable components revenue forecasts require Powerco to forecast the underlying number of connections as well as volumes (kW and kWh).

Forecast connections and volumes for each tariff group largely relies on the levels and trends of recent actual data.

- Forecasts of regional connections are determined using current connections and applying an estimated growth rate for the region using the average growth rates over the previous three years as a guide.
- Volume and demand forecasts are calculated by determining the average volume (demand) per connection for each price category (and tariff code) over the previous five years and multiplying it by the relevant connection forecast.
- In situations where we determine that the average volume over the previous five years is not appropriate to use as a forecast (such as in the case of closed price categories or “one-off” events), Powerco uses the average volumes over the previous one, two, three or four years, whichever is deemed appropriate.
- Further adjustments were made for the varying effect of Covid-19 impacts in 2020. For example, the T05S and T06S price categories were adjusted down by 1%. This was determined following assessment of the reasonableness of total MWh of the Tauranga ‘Small’ group, average kWh per ICP, and the sensitivity to, and overall revenue impact of that -1% adjustment.

Tables C.1 to C.8 demonstrate that our connection and volume forecasts are consistent with actual historical growth rates.

Table C.9 outlines our forecasting methodology in instances where the average volume over the previous five years is not appropriate to use as a forecast.

Table C.1: Connection growth – Western region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Total ICPs	
Small	0.80%	0.84%	0.87%	0.93%	0.90%	177,207	Forecast is consistent with historical growth
Medium	-0.91%	-0.92%	2.78%	3.01%	0.29%	229	Forecast is consistent with recent historical growth
Large	0.00%	3.65%	-1.06%	0.50%	-3.87%	271	Based on specific ICPs and assumed growth
Total	0.79%	0.84%	0.86%	0.93%	0.90%	177,707	

Table C.2: Connection Growth – Eastern region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Total ICPs	
Small	1.81%	1.50%	1.45%	1.37%	1.46%	162,881	Forecast is consistent with historical growth
Medium	4.40%	4.97%	4.90%	3.22%	3.31%	1,394	Forecast is consistent with historical growth
Large	0.87%	3.46%	0.00%	2.81%	0.48%	371	Based on specific ICPs and assumed growth
Total	1.83%	1.53%	1.47%	1.39%	1.47%	164,645	

Table C.3: Average volume (kWh) per connection – Western region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	9,065	9,111	9,131	9,133	9,105	-0.31%	Reflects a trend of declining average household usage
Medium	440,416	428,205	411,791	387,177	401,826	3.78%	No impact to revenue due to fixed charges
Large	2,592,646	2,455,983	2,458,477	2,339,646	2,476,384	5.84%	No impact to revenue due to fixed charges

Table C.4: Total volume (GWh) – Western region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	1,551	1,572	1,589	1,604	1,613	0.59%	Higher connection growth offsets declining average usage
Medium	96	92	91	89	92	4.08%	Reflects growth in connection numbers
Large	710	697	691	661	672	1.75%	No impact to revenue due to fixed charges
Total	2,357	2,362	2,371	2,353	2,378	1.05%	

Table C.5: Average volume (kWh) per connection – Eastern region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	7,792	7,812	7,741	7,781	7,703	-1.00%	Reflects a trend of declining average household usage
Medium	131,824	130,708	127,460	121,816	126,573	3.91%	Reflects historical trends
Large	2,848,757	2,958,166	2,845,531	2,736,762	2,759,242	0.82%	No impact to revenue due to fixed charges

Table C.6: Total volume (GWh) – Eastern region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	1,198	1,219	1,226	1,249	1,255	0.44%	Higher connection growth offsets declining average usage
Medium	156	163	167	164	176	7.34%	Reflects growth in connection numbers
Large	989	1,062	1,022	1,010	1,023	1.31%	No impact to revenue due to fixed charges
Total	2,343	2,444	2,414	2,424	2,454	1.27%	

Table C.7: Average chargeable demand⁴ (kW) per connection – Western region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	21	22	22	22	22	-1.14%	Consistent with historical data
Medium	74,780	73,946	72,109	69,504	63,203	-9.07%	Reflects a change in minimum chargeable demands
Large	260,228	231,644	217,487	202,903	190,718	-6.01%	Reflects a change in minimum chargeable demands

Table C.8: Total chargeable demand⁶ (GW) – Western region

Customer group	Actual			Projected FY21	Forecast		Comment
	FY18	FY19	FY20		FY22	Growth	
Small	3,658	3,788	3,809	3,874	3,864	-0.25%	Reflects connection growth
Medium	16,302	15,972	16,008	15,894	14,495	-8.81%	Reflects a change in minimum chargeable demands
Large	71,303	65,787	61,114	57,301	51,775	-9.64%	Reflects a change in minimum chargeable demands
Total	91,262	85,547	80,931	77,070	70,134	-9.00%	

⁴ The figures in tables C.7 and C.8 are the sum of the relevant chargeable demands used for pricing – they are not peak demand values or forecasts. The tables have a step change in the kW/GW values for the medium and large customers. This is because the pricing methodology for those customers changed in 2016, moving from maximum monthly demands (12 values) to maximum daily demands (365 values). The values in the tables reflect the demand we use for revenue calculations and have a step change as a result for the medium and large customer groups.

Table C.9: Forecast exceptions

Region	Customer Group	Price Category	Charge Type	Forecast methodology / comment
Western	Small	E1	Variable Charges	Four years of historical data only used to align to data set for peak period consumption
Western	Medium	E100	Variable Charge	Two years of historical data used, including FY21 to recognise COVID impact
Western	Medium	E100	Power Factor Charge	Use prior year
Western	Large	E300	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Western	Large	E300	Power Factor Charge	Existing daily average used due to no change expected or able to be forecast
Western	Large	SPECIAL	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Western	Large	SPECIAL	Power Factor Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Small	T01	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Eastern	Small	T02	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Eastern	Small	T05S	Variable Charge	Prior year data used, due to ICP volatility, and with growth adjustment for COVID impact
Eastern	Small	T06S	Variable Charge	Prior year data used, due to ICP volatility, and with growth adjustment for COVID impact
Eastern	Medium	T22	Variable Charge	Uses FY19-FY20 average, excluding FY21 due to large negative COVID impact
Eastern	Medium	T41	Variable Charge	Two years of historical data, excluding FY21 due to COVID impact
Eastern	Medium	T41	Power Factor Charge	Two years of historical data, excluding FY21 due to COVID impact
Eastern	Large	T50	Variable Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	T50	Power Factor Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Eastern	Large	T60	Variable Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	T60	Power Factor Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Small	V01	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Eastern	Small	V02	Variable Charge	Prior year data used to estimate FY21 quantities due to volatility of data
Eastern	Small	V05S	Variable Charge	Two years of historical data used, including FY21 to recognise COVID impact
Eastern	Small	V06S	Variable Charge	Two years of historical data used, including FY21 to recognise COVID impact
Eastern	Medium	V24	Variable Charge	Uses FY19-FY20 average, excluding FY21 due to large negative COVID impact
Eastern	Medium	V28	Variable Charge	Uses FY20-FY21, to reflect a limited level of ongoing COVID impact
Eastern	Medium	V28	Power Factor Charge	Uses FY20-FY21, to reflect a limited level of ongoing COVID impact
Eastern	Large	V40	Variable Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	V40	Power Factor Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	V60	Variable Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	V60	Power Factor Charge	Two years of historical data only used to align to data set for peak period consumption
Eastern	Large	V601	Variable Charge	Two years of historical data only used to align to data set for peak period consumption

Approach to forecasting kWh quantities for small customers

Over recent years, the structure and level of distribution pricing has received attention from regulators, retailers, and other stakeholders. In the past, our prices for residential and small commercial customers had a time-of-use (TOU) component of their total distribution charge. A day/night structure applied, where prices were lower overnight than in the day. From 1 April 2019 we modified this structure to distinguish between peak and off-peak hours, requiring forecasts of volumes in those periods. The approach taken to forecasting volumes is summarised below:

Forecast	Comment
Annual volumes	Annual volumes are based on growth of ICPs and the historical trend of average kWh per annum - no adjustment has been made to reflect an impact of the pricing change.
Within-year peak/off-peak volumes	<p>Eastern region. We have observed peak volumes of 29%-30% compared to off-peak volumes of 71% - 70%.</p> <p>Western region: Forecasts reflect a historical split between peak/off-peak of 30%/70% +/- 1%.</p>

We update our forecasting models to reflect available data. This is because price structures and levels have the potential to affect consumption in aggregate, as well as at points in time when different prices might apply. Consumption is also affected by how retailers bundle distribution prices with other prices, as well as external factors such as temperature and a consumer's individual circumstances.

Approach to forecasting revenues for large commercial/ industrial customers

Powerco has made changes to its approach to forecasting revenue in relation its large commercial and industrial customers on asset-based pricing categories of V40, V60, T50, T60 and SPECIAL.

Historically Powerco would simply forecast revenue from these price categories using the expected revenue from known customers prior to the start of the pricing year. We identified that this approach had the tendency to underestimate the actual revenue from these price categories as the forecasted revenue did not include subsequent revenue that resulted from new connections or demand growth from existing customers within the pricing year.

We have revised the forecasting approach to include an estimate for revenue growth from new connections and revenue growth from existing customers based on historical growth in order to improve the alignment between forecasted and actual revenue from these price categories (as per the Table below).

Table C.10: Revenue forecast for large commercial / industrial customers

Price category	Baseline assumptions		FY22 growth		FY22 forecast	
	ICPs	Revenue	ICPs	Revenue	ICPs	Revenue
SPECIAL	34	9,755,735	0	44,715	34	9,800,450
Western	34	9,755,735	0	44,715	34	9,800,450
T50	218	9,026,157	4	78,801	222	9,104,958
T60	33	7,889,558	1	78,965	34	7,968,523
	251	16,915,715	4	157,766	255	17,073,481
V40	87	3,652,513	2	40,335	89	3,692,848
V60	24	7,762,471	1	85,722	25	7,848,193
V601	2	7,793,066	-	-	2	7,793,066
	113	19,208,050	2	126,057	115	19,334,107
Eastern	364	36,123,765	7	283,823	371	36,407,588
Total	398	45,879,500	7	328,538	405	46,208,038