



**unison**

**DS5004**  
**Unison Default Price-Quality Path**  
**Annual Price-Setting Compliance**  
**Statement**  
**2022-2023**

**For the Assessment Period Ending 31 March 2023**

Pursuant to Electricity Distribution Services Default Price-Quality Path Determination 2020

Data Classification: Public

Published Date: 31/03/2022

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# DS5004 Unison Default Price-Quality Path Annual Price-Setting Compliance Statement 2022-2023

## Overview

### Document status

Draft In Service Under Review Archived 

### Document

Regulatory disclosure demonstrating Unison's compliance with the Default Price-Quality Path in respect of price setting for the 2022-2023 assessment period.

### Intended audience

Publicly disclosed.

### Document contributors

Contributors	Name and Position Title	Approval Date
Owner/Creator	Grant Sargison Pricing Manager	18/03/2022
Authoriser	Nathan Strong General Manager Commercial	21/03/2022
Approver	Nathan Strong General Manager Commercial	31/03/2022

### Disclaimer

The information presented in this annual Price-Setting Compliance Statement has been prepared solely for the purpose of complying with the requirements of the Electricity Distribution Services Default Price-Quality Path Determination 2020. This statement has not been prepared for any other purpose. Unison Networks Limited expressly disclaims any liability to any other party who may rely on this Statement for any other purpose.

## Certification of Annual Compliance Statement



### CERTIFICATION FOR ANNUAL PRICE-SETTING COMPLIANCE STATEMENT

Pursuant to Schedule 6

We, Philip Hocquard and Robert Wheeler, being Directors of Unison Networks Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached annual price-setting compliance statement of Unison Networks 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 the relevant requirements, and all forecasts used in the calculations for forecast revenue from prices and forecast allowable revenue are reasonable.

Director

30/03/2022 5:25 PM

Date: 29 March 2022

Director

30/03/2022 12:39 PM

Date: 29 March 2022

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## Key dates

### Published Date

31/03/2022

## Related references

### Legislation

- Electricity Distribution Services Default Price-Quality Path Determination 2020
- Electricity Distribution Services Default Price-Quality Path (Unison unforeseeable major capex project) Amendment Determination 2022
- Commerce Act 1986

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## 1. Introduction

### 1.1 Introduction

Unison Networks Limited (Unison) 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 Unison from 1 April 2020.

In addition, Unison Networks allowable revenue has been amended to provide for an unforeseeable major capex project.

This price-setting compliance statement is published in accordance with clause 11.1 of the 2020 DPP Determination. The statement applies to the third assessment period, commencing 1 April 2022 and ending 31 March 2023.

## 2. Statement of Compliance

### 2.1 Compliance with 11.2(a)

Unison has complied with the price path for the second assessment period as demonstrated in the table below and consistent with clause 8.4 of the 2020 DPP Determination.

Compliance with Price Path RY23		
<i>Forecast revenue from prices must not exceed the lesser of:</i>		
<i>(a) The forecast allowable revenue for that assessment period, and</i>		
<i>(b) The amount determined in accordance with the following formula:</i>		
<i>the forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices).</i>		
Term	Description	Value (\$000)
Forecast revenue from prices (\$000)	Forecast prices between 1 April 2022 and 31 March 2023 multiplied by forecast quantities for the period ending 31 March 2023.	141,649
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.	141,671
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).	151,610
Maximum allowable forecast revenue (\$000)	The lesser of the forecast allowable revenue and maximum allowable forecast revenue from prices.	141,671
<b>Compliance Result</b>	Forecast revenue from prices ≤ forecast allowable revenue and maximum allowable forecast revenue from prices.	<b>Compliant</b>

**Table 1 – Compliance with Price Path RY23**

## 2.2 Supporting information

Further information supporting forecast allowable revenue is included in *Section 3* and *Section 6*.

Further information supporting forecast revenue from prices is included in *Section 4* and *Appendices C and D*.

Further information supporting maximum allowable forecast revenue is included in *Section 5*.

## 3. Forecast Allowable Revenue

**3.1 Summary** The table below shows the derivation of forecast allowable revenue, consistent with the requirements of Schedule 1.5 of the 2020 DPP Determination and the 2021 Amendment Determination.

Forecast Allowable Revenue RY23		
Term	Description	Value (\$000)
Forecast net allowable revenue	Forecast net allowable revenue as set out in section 4.2.2 of the Amendment Determination 2021.	104,301
Forecast pass through costs	Forecast pass-through costs	1,502
Forecast recoverable costs	Forecast recoverable costs, excluding any recoverable cost that is a revenue wash-up drawn down amount	39,125
Opening wash-up account balance	The opening wash-up account balance for the third assessment period of the DPP regulatory period as set out in Schedule 1.7 (1)(b)	(3,258)
Pass-through allowance balance	For the third assessment period is nil.	0
<b>Total</b>		<b>141,671</b>

**Table 2 – Forecast Allowable Revenue RY23**

## 3.2 Supporting information

*Section 6* 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 *Section 6*.

## 4. Forecast Revenue from Prices

**4.1 Summary** Unison’s forecast revenue from prices is equal to the total of each of its prices multiplied by the forecast quantities they will apply to. The 2020 DPP Determination requires that these forecasts are demonstrably reasonable.

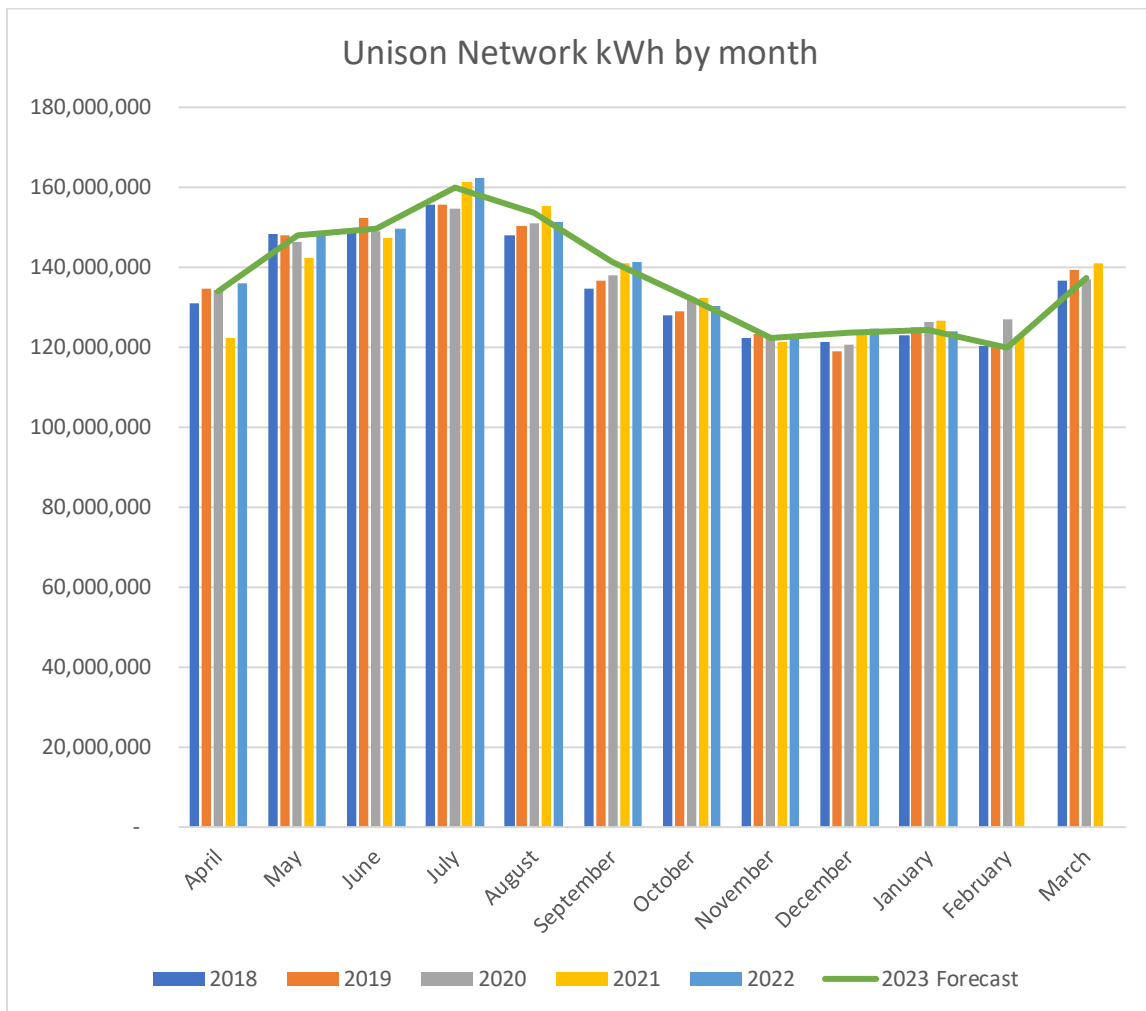
**4.2 Demonstrating compliance**

The forecasts are prepared for the next financial year using:

- information from recent billing data, and
- the number of ‘Active’ connections from the Electricity Authority’s Registry.

The forecasts are developed from the specific price options.

The forecast electricity consumption is also compared to recent retailer submissions to the wholesale electricity market. This ensures consistency with historical electricity usage as seen in the graph below.



**Graph 1 – Forecast Consumption Compared to Recent Years**

### 4.3 Historical data

The tables below summarise how the forecasts align with historic data for Unison's network areas. They indicate that the forecasts align within the expected network consumption.

GWh		Average	Forecast
		2019 - 2021	2023
Rotorua/Taupo	Commercial	261	258
	General	25	25
	Industrial	85	85
	Residential	290	293
Hawke's Bay	Commercial	356	351
	General	46	47
	Industrial	184	198
	Residential	398	395
<b>Network Total</b>		<b>1,646</b>	<b>1,651</b>

**Table 3 – Consumption Forecast Compared to 3 Year Average**

Forecast Revenue from Prices RY23	
$\Sigma P_{2022/23} * Q_{2022/23}$	<b>Value (\$000)</b>
Forecast prices between 1 April 2022 and 31 March 2023 multiplied by forecast quantities for the period ending 31 March 2023.	
Hawke's Bay	82,661
Central Region	58,987
<b>Total</b>	<b>141,649</b>

**Table 4 – Forecast Revenue from Prices RY23**

### 4.4 Supporting information

*Appendices C and D* show the components of forecast revenue from prices.

The methodology to forecast the quantities associated with each price is documented in *Appendix B*.



## 5. Maximum Allowable Forecast Revenue from Prices

### Summary

The table below shows the maximum allowable forecast revenue from prices, consistent with the requirements of clause 8.4 of the 2020 DPP Determination.

<b>Maximum Allowable Forecast Revenue from Prices RY23</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Forecast revenue from prices from previous assessment period	Forecast prices between 1 April 2021 and 31 March 2022 multiplied by forecast quantities for the period ending 31 March 2022	137,827
Limit on annual percentage increase in forecast revenue from prices		10%
<b>Maximum allowable forecast revenue from prices</b>	Forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices)	<b>151,610</b>

**Table 5 – Maximum Allowable Forecast Revenue from Prices RY23**

## 6. Analysis of the Components and Calculation of Forecast Allowable Revenue

**6.1 Summary** This section provides a breakdown of the following components of forecast allowable revenue:

- forecast pass-through and recoverable costs, and
- opening wash-up account balance.

**6.2 Forecast pass-through and recoverable costs** The 2020 DPP Determination requires forecasts of pass-through and recoverable costs.

These costs have been determined in accordance with Part 3.1.2-3 of the Electricity Distribution Services Input Methodologies Determination 2012 (consolidated 20 May 2020) which defines pass-through costs and recoverable costs.

Tables 6 and 7 below provide a breakdown of Unison's forecast pass-through and recoverable cost forecasts for the year ending 31 March 2023. The costs total \$40,628. All other pass-through and recoverable costs not included in Tables 6 and 7 are not applicable to Unison for the 2023 assessment period. When calculating the forecast allowable revenue any recoverable cost that is a revenue wash-up drawn down amount is excluded.

Forecast Pass-through Costs RY23			
Forecast pass-through Costs	Hawke's Bay \$000	Rotorua/ Taupo \$000	Unison Network \$000
Rates on system fixed assets	134	580	714
Commerce Act levies	215	149	364
Electricity Authority levies	211	144	355
Utilities Disputes levies	42	28	70
<b>Total Forecast pass-through Costs</b>	<b>601</b>	<b>901</b>	<b>1,502</b>

**Table 6 – Forecast Pass-through Costs RY23**

<b>Forecast Recoverable Costs RY23</b>			
<b>Forecast Recoverable Costs</b>	<b>Hawke's Bay \$000</b>	<b>Rotorua/ Taupo \$000</b>	<b>Unison Network \$000</b>
IRIS incentive adjustment	1,762	1,224	2,986
Transpower transmission charges	20,253	10,716	30,969
New investment contract charges	926	240	1,165
System operator services charges	0	0	0
Avoided transmission charges - purchased assets	0	0	0
Distributed generation allowance	192	3,519	3,711
Claw-back	0	0	0
Catastrophic event allowance	0	0	0
Extended reserves allowance	0	0	0
Quality incentive adjustment	110	76	186
Capex wash-up adjustment	13	9	22
Transmission asset wash-up adjustment	0	0	0
Reconsideration event allowance	0	0	0
Quality standard variation engineers fee	0	0	0
Urgent project allowance	0	0	0
Revenue wash-up draw down amount	0	0	0
Fire and emergency NZ levies	50	35	85
Innovation project allowance	0	0	0
<b>Total Forecast Recoverable Costs</b>	<b>23,306</b>	<b>15,819</b>	<b>39,125</b>

**Table 7 – Forecast Recoverable Costs RY23**

<b>Total Forecast Pass-through and Recoverable Costs RY23</b>			
<b>Component</b>	<b>Hawke's Bay \$000</b>	<b>Rotorua/ Taupo \$000</b>	<b>Unison Network \$000</b>
Forecast Pass-through Costs	601	901	1,502
Forecast Recoverable Costs	23,306	15,819	39,125
<b>Total Forecast Pass-through and Recoverable Costs</b>	<b>23,907</b>	<b>16,721</b>	<b>40,628</b>

**Table 8 – Total Forecast Pass-through and Recoverable Costs RY23**

### 6.3 Demonstrating forecast pass-through and recoverable costs

Schedule 1.5(3) of the 2020 DPP Determination requires that all forecasts of pass-through costs and recoverable costs used to calculate 'forecast allowable revenue' must be 'demonstrably reasonable'.

Table 9 summarises the methodology Unison has applied to determine its forecasts of pass-through and recoverable costs. In Unison's opinion all of these methods deliver acceptable forecasts in the context they are used. Note, pass-through costs make up 1% of revenues, so any forecast errors are likely to have immaterial impact on overall forecast accuracy.

Pass-through Cost Component	Forecasting Methodology
Electricity Authority Levies	Quantities are forecast for the period using historical behaviour. The most recent levy rates are used as the best forecast of future levy rates.
Commerce Commission Levies	The most recent invoice is used as the best approximation for future levies.
Utilities Disputes Levies	Based on historical costs plus CPI.
Local Authority Rates	A forecast % change is used for each Local Authority based on historical rate movements.
Recoverable Cost Component	Forecasting Methodology
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	Based on generation during the Transmission measurement period and Transpower's interconnection rates for the 2023 pricing year.
Quality Incentive Adjustment	Determined for 2020/2021 regulatory year (adjusted for time value of money).
Capex Wash-up Adjustment	Adjustment forecast using the Input Methodologies formula.
Fire and Emergency New Zealand Levies	Forecast is based on historical costs plus CPI.

**Table 9 – Method Unison Applies to Determine its Pass-through and Recoverable Costs Forecast**

**6.4 Opening Wash-up Account Balance**

For the third assessment period calculated in accordance with Schedule 1.7 of the 2020 DPP Determination.

**Note**

The closing wash-up balance of \$2,998k differs from the disclosed wash-up balance from Unison's 2021 DPP Compliance Statement due to Unison's major capex re-opener.

<b>Opening Wash-up Account Balance RY23</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Closing Wash-up Account Balance 2 <sup>nd</sup> period	Wash-up amount for the assessment period ending 31 March 2022	(2,999)
less Voluntary Undercharging Amount forgone		0
67th percentile estimate of post-tax WACC		4.23%
<b>Opening Wash-up Account Balance 3<sup>rd</sup> period</b>	(wash-up amount of previous assessment period – Voluntary undercharging amount foregone) x (67th percentile estimate of post-tax WACC) <sup>2</sup>	(3,258)

**Table 10 – Opening Wash-up Account Balance RY23**

## Appendix A – Compliance References

**References** The following tables describe the 2020 DPP Determination requirements and the section of this Statement that addresses them.

Determination Clause	Requirement	Section of this Document
8.4	<p>The forecast revenue from prices for the third assessment period must not exceed the lesser of:</p> <ul style="list-style-type: none"> <li>the forecast allowable revenue for that assessment period; and</li> <li>the amount determined in accordance with the following formula:</li> </ul> <p><i>the forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices).</i></p>	2.1

**Table 11 – Price Path Summary**

Determination Clause	Requirement	Section of this Document
An annual price-setting compliance statement must be provided to the Commission consisting of:		
11.2(a)(ii)	A statement indicating whether or not Unison has complied with the price path in clause 8.4 for the assessment period.	2.1
11.2(b)	The date on which the statement was prepared.	Cover
11.2(c)	A certificate in the form set out in Schedule 6, signed by at least one Director of Unison.	Overview
11.3(a)	Unison's calculation of its forecast revenue from prices together with supporting information for all components of the calculation.	4
11.3(b)	Unison's calculation of its forecast allowable revenue together with supporting information for all components of the calculation.	3
11.3(c)	Any reasons for non-compliance.	N/A
11.3(d)	Actions taken to mitigate any non-compliance and to prevent similar non-compliance in future assessment periods.	N/A

**Table 12 – Annual Price-Setting Compliance Statement**

# Appendix B – Revenue Forecasting

## General

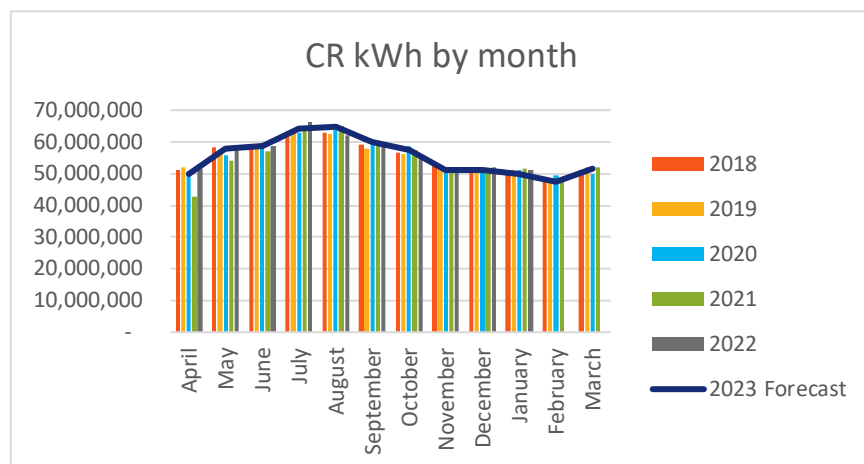
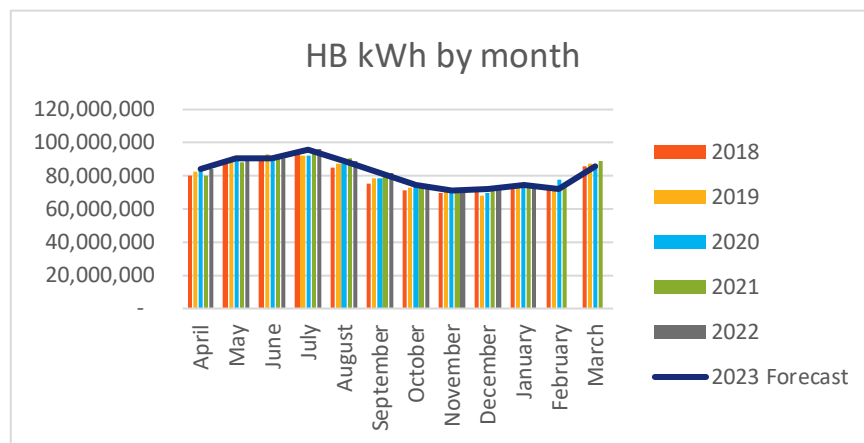
Unison’s prices contain fixed daily charges and volume charges. The forecasts are developed from the specific price options for each price category.

The forecasts are prepared for the next financial year using a range of available information including the following:

- recent billing data submitted by retailers – this includes volume data across the various price options, and
- the number of ‘Active’ connections billed through the Unison billing package, Gentrack.

## Recent billing data

The forecast electricity consumption is also compared to recent retailer submissions to the wholesale electricity market. This ensures consistency with historical electricity usage across both network regions. Both regions have a consistent electricity consumption trend and pattern over the last five financial years. The two graphs below demonstrate the consistency.



**Active billed connections**

This process assists in capturing changes that occur as a result of new connections, upgrades, downgrades and price category changes. Daily charges are only applicable to connections that are 'Active' in Unison's network. The figures for each period use the December total for consistency.

'Active' Connections		Financial Year					
Region	Customer Type	2018	2019	2020	2021	2022	Forecast 2023
Rotorua/Taupo	Commercial	4,355	4,347	4,345	4,359	4,384	4,438
	General	2,838	2,904	2,906	2,965	2,911	3,006
	Industrial	40	40	38	39	40	40
	Residential	40,958	41,316	41,626	42,042	42,314	42,667
Hawke's Bay	Commercial	3,580	3,643	3,711	3,773	3,798	3,847
	General	6,228	6,249	6,203	6,161	6,105	6,137
	Industrial	41	42	43	47	47	55
	Residential	53,738	54,076	54,549	55,127	55,479	56,061
<b>Grand Total</b>		<b>111,778</b>	<b>112,617</b>	<b>113,421</b>	<b>114,513</b>	<b>115,078</b>	<b>116,251</b>

**Assumptions**

Unison recognises that the future economic and health environment has significantly changed as a result of Covid-19. The forecasts have operated under the assumption that significant changes in behaviour as a result of Government enforced lockdowns are unlikely to occur and that a normalised pattern of consumption behaviour has resumed. Therefore, the forecasts used are the '*Most likely scenario*' (which is consistent with the Revenue cap).

Forecast adjustments are applied for:

- changes in the number of days (e.g. leap years)
- changes to price categories (removal of residential generation categories)
- weather/volume normalisation
- observable trends (if applicable)
- forecast growth in industrial connections and volumes in Hawke's Bay mainly associated with the Horticulture/Primary sector, and
- growth in the number of 'Active' connections and associated volumes.



## Appendix C – Prices and Forecast Quantities for Pricing Year 2023 – Hawke’s Bay

### Forecast revenue from prices

The below table sets out the prices and forecast quantities for the ‘forecast revenue from prices’ for the second assessment period. The ‘forecast revenue from prices’ is determined by Schedule 1.3 of 2020 DPP Determination.

Forecast Revenue from Hawkes Bay Prices RY23				
Price Code	Unit	Unit Price	Forecast Quantity	Forecast Revenue (\$000)
F-H-M11	\$/day	0.3000	5,721,204.00	1,716
E-H-M11-24UC	\$/kWh	0.1100	42,489,972.00	4,674
E-H-M11-AICO	\$/kWh	0.0910	22,686,291.00	2,064
E-H-M11-CTRL	\$/kWh	0.0625	11,934,541.00	746
E-H-M11-NITE	\$/kWh	0.0360	194,573.00	7
E-H-M11-CTUD	\$/kWh	0.1420	33,219.00	5
E-H-M11-PROJ	\$/kWh	0.1100	313,502.38	34
E-H-M11-DGEN	\$/kWh	0.0000	981,777.00	0
F-H-M12	\$/day	1.1500	4,292,237.00	4,936
E-H-M12-24UC	\$/kWh	0.0715	63,727,533.00	4,557
E-H-M12-AICO	\$/kWh	0.0525	39,767,603.00	2,088
E-H-M12-CTRL	\$/kWh	0.0240	16,059,171.00	385
E-H-M12-NITE	\$/kWh	0.0240	358,237.00	9
E-H-M12-CTUD	\$/kWh	0.0920	122,380.00	11
E-H-M12-PROJ	\$/kWh	0.0715	636,738.84	46
E-H-M12-DGEN	\$/kWh	0.0000	1,165,204.00	0
F-H-DNR	\$/day	1.5000	225,729.00	339
E-H-DNR-24UC	\$/kWh	0.0715	1,555,615.78	111
E-H-DNR-AICO	\$/kWh	0.0525	643,192.35	34
E-H-DNR-CTRL	\$/kWh	0.0240	169,414.15	4
E-H-DNR-NITE	\$/kWh	0.0240	364.34	0
E-H-DNR-CTUD	\$/kWh	0.0920	171.22	0
E-H-DNR-PROJ	\$/kWh	0.0715	5,346.00	0
E-H-DNR-DGEN	\$/kWh	0.0000	4,563.10	0
F-H-TLU	\$/day	0.3000	5,148,755.14	1,545
E-H-TLU-ONPK	\$/kWh	0.1490	20,346,011.63	3,032
E-H-TLU-PKIN	\$/kWh	0.1230	9,456,143.33	1,163
E-H-TLU-SHDR	\$/kWh	0.1050	16,044,353.95	1,685
E-H-TLU-SHIN	\$/kWh	0.0850	7,354,778.15	625
E-H-TLU-OFPK	\$/kWh	0.0360	14,248,026.89	513

Forecast Revenue from Hawkes Bay Prices RY23				
Price Code	Unit	Unit Price	Forecast Quantity	Forecast Revenue (\$000)
E-H-TLU-CTRL	\$/kWh	0.0625	9,500,838.00	594
E-H-TLU-NITE	\$/kWh	0.0360	42,552.03	2
E-H-TLU-PROJ	\$/kWh	0.1100	33,100.00	4
E-H-TLU-DGEN	\$/kWh	0.0000	330,333.25	0
F-H-THU	\$/day	1.1500	4,669,234.13	5,370
E-H-THU-ONPK	\$/kWh	0.0970	33,176,519.58	3,218
E-H-THU-PKIN	\$/kWh	0.0710	13,917,518.83	988
E-H-THU-SHDR	\$/kWh	0.0680	25,873,257.82	1,759
E-H-THU-SHIN	\$/kWh	0.0480	10,824,736.86	520
E-H-THU-OFPK	\$/kWh	0.0240	21,775,031.21	523
E-H-THU-CTRL	\$/kWh	0.0240	11,439,194.00	275
E-H-THU-NITE	\$/kWh	0.0240	72,508.74	2
E-H-THU-DGEN	\$/kWh	0.0000	308,447.82	0
E-H-THU-PROJ	\$/kWh	0.0715	40,049.00	3
F-H-NDL	\$/day	1.5500	1,203,518.00	1,865
E-H-NDL-24UC	\$/kWh	0.0740	7,521,547.32	557
E-H-NDL-CTRL	\$/kWh	0.0410	179,118.43	7
E-H-NDL-NITE	\$/kWh	0.0260	41,118.37	1
E-H-NDL-CTUD	\$/kWh	0.1000	104,204.79	10
E-H-NDL-PROJ	\$/kWh	0.0740	126,451.94	9
E-H-NDL-DGEN	\$/kWh	0.0000	5,636.21	0
F-H-NDH	\$/day	1.1500	755,281.00	869
E-H-NDH-24UC	\$/kWh	0.0980	29,528,984.64	2,894
E-H-NDH-CTRL	\$/kWh	0.0540	666,877.81	36
E-H-NDH-NITE	\$/kWh	0.0340	179,131.25	6
E-H-NDH-CTUD	\$/kWh	0.1320	344,001.81	45
E-H-NDH-PROJ	\$/kWh	0.0980	493,441.82	48
E-H-NDH-DGEN	\$/kWh	0.0000	30,859.46	0
F-H-TCU	\$/day	1.1500	5,122.00	6
E-H-TCU-ONPK	\$/kWh	0.1320	176,599.04	23
E-H-TCU-SHDR	\$/kWh	0.0880	184,691.28	16
E-H-TCU-OFPK	\$/kWh	0.0320	98,083.36	3
E-H-TCU-CTRL	\$/kWh	0.0540	4,347.92	0
E-H-TCU-DGEN	\$/kWh	0.0000	0.00	0
E-H-TCU-PROJ	\$/kWh	0.0980	825.00	0
F-H-T1P	\$/day	1.2700	68,848.00	87

Forecast Revenue from Hawkes Bay Prices RY23				
Price Code	Unit	Unit Price	Forecast Quantity	Forecast Revenue (\$000)
E-H-T1P-24UC	\$/kWh	0.1040	219,714.68	23
E-H-T1P-PROJ	\$/kWh	0.1040	7,499.00	1
F-H-T3P	\$/day	6.3250	4,254.00	27
E-H-T3P-24UC	\$/kWh	0.0540	109,793.84	6
E-H-T3P-PROJ	\$/kWh	0.0540	0.00	0
E-H-U01-UNMT	\$/kWh	0.2100	490,015.82	103
E-H-U02-UNMT	\$/kWh	0.2100	546,079.85	115
F-H-U03	\$/fitting	0.1750	6,202,411.00	1,085
E-H-U03-UNMT	\$/kWh	0.0160	5,601,103.00	90
E-H-U03-TAIC	\$/kWh	0.0160	0.00	0
F-H-MC1	\$/day	5.7500	1,133,139.00	6,516
F-H-MC2	\$/day	11.8000	120,379.00	1,420
F-H-MC1T	\$/day	5.7500	0.00	0
F-H-MC2T	\$/day	11.8000	0.00	0
F-H-MC3	\$/day	23.5000	81,363.00	1,912
F-H-MC5	\$/day	30.0000	20,209.00	606
F-H-MC6	\$/day	35.0000	12,595.00	441
F-H-MC7	\$/day	40.0000	8,975.00	359
F-H-MC8	\$/day	45.0000	5,170.00	233
F-H-MC9	\$/day	50.0000	4,709.00	235
E-H-MC-24UC	\$/kWh	0.0480	115,191,855.46	5,529
E-H-MC-24UCHH	\$/kWh	0.0480	146,574.00	7
E-H-MC-CTRL	\$/kWh	0.0260	643,434.29	17
E-H-MC-NITE	\$/kWh	0.0160	1,869,945.06	30
E-H-MC-CTUD	\$/kWh	0.0620	4,326,223.13	268
E-H-MC-PROJ	\$/kWh	0.0480	547,888.06	26
E-H-MC-DEFT	\$/kWh	0.0580	4,639,178.35	269
E-H-MC-SOPD	\$/kW/mth	3.5000	379,165.42	1,327
E-H-MC-WOPD	\$/kW/mth	5.5000	285,573.70	1,571
E-H-MC-DMND	\$/kW/mth	3.2500	702,142.06	2,282
E-H-MC-KVAR	kVAR	7.5500	56,734.80	428
E-H-MC-RKVAR	kVAR	(7.5500)	0.00	0
E-H-MC-TAIC	\$/kWh	0.0000	223,753,371.00	0
F-H-MC-T020	\$/day	5.2000	20,530.00	107
F-H-MC-T030	\$/day	6.8600	16,712.00	115
F-H-MC-T050	\$/day	9.0000	18,419.00	166

Forecast Revenue from Hawkes Bay Prices RY23				
Price Code	Unit	Unit Price	Forecast Quantity	Forecast Revenue (\$000)
F-H-MC-T075	\$/day	11.1800	13,140.00	147
F-H-MC-T100	\$/day	13.2600	6,022.00	80
F-H-MC-T150	\$/day	14.5600	1,095.00	16
F-H-MC-COAD	\$/day	(1.9000)	365.00	(1)
E-H-MC-DGEN	\$/kWh	0.0000	350,775.10	0
E-H-I60-DMND	\$/kW/mth	0.0000	473,256.12	0
E-H-I60-KVAR	kVAR	7.5500	28,008.00	211
E-H-I60-RKVAR	kVAR	(7.5500)	-1,189.60	9
E-H-I60-PROJ	\$/kWh	0.0000	0.00	0
E-H-I60-TAIC	\$/kWh	0.0000	198,259,972.00	0
F-H-I60-007	\$/day	508.68	365.00	186
F-H-I60-008	\$/day	437.13	365.00	160
F-H-I60-009	\$/day	572.28	365.00	209
F-H-I60-010	\$/day	514.16	365.00	188
F-H-I60-011	\$/day	376.29	365.00	137
F-H-I60-012	\$/day	539.23	365.00	197
F-H-I60-013	\$/day	1,803.80	365.00	658
F-H-I60-014	\$/day	1,034.47	365.00	378
F-H-I60-015	\$/day	556.48	365.00	203
F-H-I60-016	\$/day	573.79	365.00	209
F-H-I60-017	\$/day	1,431.21	365.00	522
F-H-I60-021	\$/day	381.01	365.00	139
F-H-I60-022	\$/day	394.13	365.00	144
F-H-I60-023	\$/day	328.54	365.00	120
F-H-I60-024	\$/day	352.43	365.00	129
F-H-I60-025	\$/day	69.68	365.00	25
F-H-I60-026	\$/day	205.07	365.00	75
F-H-I60-028	\$/day	723.74	0.00	0
F-H-I60-031	\$/day	6.09	0.00	0
F-H-I60-033	\$/day	248.94	365.00	91
F-H-I60-034	\$/day	126.10	365.00	46
F-H-I60-035	\$/day	125.41	365.00	46
F-H-I60-036	\$/day	184.62	365.00	67
F-H-I60-037	\$/day	71.95	365.00	26
F-H-I60-038	\$/day	161.02	365.00	59
F-H-I60-039	\$/day	203.07	365.00	74

<b>Forecast Revenue from Hawkes Bay Prices RY23</b>				
<b>Price Code</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Forecast Quantity</b>	<b>Forecast Revenue (\$000)</b>
F-H-I60-040	\$/day	179.63	365.00	66
F-H-I60-041	\$/day	36.83	365.00	13
F-H-I60-042	\$/day	235.78	365.00	86
F-H-I60-043	\$/day	164.20	365.00	60
F-H-I60-044	\$/day	92.42	365.00	34
F-H-I60-045	\$/day	86.86	365.00	32
F-H-I60-047	\$/day	84.15	365.00	31
F-H-I60-048	\$/day	98.15	365.00	36
F-H-I60-049	\$/day	160.40	365.00	59
F-H-I60-050	\$/day	523.88	365.00	191
F-H-I60-051	\$/day	523.88	365.00	191
F-H-I60-052	\$/day	60.44	365.00	22
F-H-I60-053	\$/day	36.76	365.00	13
F-H-I60-054	\$/day	241.34	365.00	88
F-H-I60-055	\$/day	154.49	0.00	0
F-H-I60-056	\$/day	26.59	365.00	10
F-H-I60-057	\$/day	25.43	365.00	9
F-H-I60-058	\$/day	29.45	365.00	11
F-H-I60-059	\$/day	69.78	365.00	25
F-H-I60-060	\$/day	25.43	365.00	9
F-H-I60-061	\$/day	91.46	365.00	33
F-H-I60-062	\$/day	100.69	365.00	37
F-H-I60-063	\$/day	52.33	365.00	19
F-H-I60-064	\$/day	499.53	365.00	182
F-H-I60-065	\$/day	271.91	365.00	99
F-H-I60-066	\$/day	337.21	365.00	123
F-H-I60-067	\$/day	102.60	365.00	37
F-H-I60-068	\$/day	56.64	365.00	21
F-H-I60-069	\$/day	36.35	365.00	13
F-H-I60-070	\$/day	92.42	365.00	34
F-H-I60-071	\$/day	175.01	365.00	64
F-H-I60-072	\$/day	42.81	365.00	16
F-H-I60-073	\$/day	146.46	365.00	53
F-H-I60-074	\$/day	68.86	365.00	25
F-H-I60-075	\$/day	13.72	365.00	5
F-H-I60-076	\$/day	268.61	365.00	98

<b>Forecast Revenue from Hawkes Bay Prices RY23</b>				
<b>Price Code</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Forecast Quantity</b>	<b>Forecast Revenue (\$000)</b>
F-H-I60-077	\$/day	18.44	365.00	7
F-H-I60-078	\$/day	382.77	365.00	140
F-H-I60-079	\$/day	274.76	365.00	100
F-H-I60-080	\$/day	191.53	365.00	70
F-H-I60-081	\$/day	44.58	365.00	16
F-H-I60-082	\$/day	73.53	365.00	27
F-H-I60-083	\$/day	299.78	365.00	109
F-H-I60-ZIW1	\$/day	329.06	365.00	120
F-H-I60-ZIW2	\$/day	156.85	365.00	57
F-H-I60-WSH1	\$/day	121.09	365.00	44
F-H-I60-WSH2	\$/day	34.65	365.00	13
F-H-I60-FRM1	\$/day	102.76	365.00	38
F-H-I60-FRM2	\$/day	94.07	365.00	34
F-H-I60-099	\$/day	0.0000	0.00	0
F-H-I60-BOS1	\$/day	131.90	90.00	12
F-H-I60-BOS2	\$/day	69.75	90.00	6
F-H-I60-STH1	\$/day	94.07	243.00	23
F-H-I60-STH2	\$/day	33.15	243.00	8
F-H-I60-TPC1	\$/day	157.01	274.00	43
F-H-I60-TPC2	\$/day	57.60	274.00	16
<b>ΣP<sub>2022/23</sub>*Q<sub>2022/23</sub></b>				<b>82,661</b>

## Appendix D – Prices and Forecast Quantities for Pricing Year 2023 – Rotorua/Taupo

### Forecast revenue from prices

The below table sets out the prices and forecast quantities for the 'forecast revenue from prices' for the second assessment period. The 'forecast revenue from prices' is determined by Schedule 1.3 of 2020 DPP Determination.

Forecast Revenue from Rotorua/Taupo prices RY23				
Price Code	Unit	Unit price	Forecast Quantity	Forecast revenue (\$000)
F-R-M11	\$/day	0.3000	4,952,346.00	1,486
E-R-M11-24UC	\$/kWh	0.1000	28,148,558.00	2,815
E-R-M11-AICO	\$/kWh	0.0830	34,998,235.00	2,905
E-R-M11-CTRL	\$/kWh	0.0580	5,389,897.00	313
E-R-M11-NITE	\$/kWh	0.0330	975,346.00	32
E-R-M11-CTUD	\$/kWh	0.1290	821,000.00	106
E-R-M11-PROJ	\$/kWh	0.1000	-1,813.69	(0)
E-R-M11-DGEN	\$/kWh	0.0000	354,013.00	0
F-R-M12	\$/day	1.1500	3,957,032.00	4,551
E-R-M12-24UC	\$/kWh	0.0615	48,133,862.00	2,960
E-R-M12-AICO	\$/kWh	0.0445	42,593,144.00	1,895
E-R-M12-CTRL	\$/kWh	0.0190	10,218,083.00	194
E-R-M12-NITE	\$/kWh	0.0190	1,964,288.00	37
E-R-M12-CTUD	\$/kWh	0.0800	2,745,669.00	220
E-R-M12-PROJ	\$/kWh	0.0615	-46,335.50	(3)
E-R-M12-DGEN	\$/kWh	0.0000	341,305.00	0
F-R-DNR	\$/day	1.5000	1,107,961.00	1,662
E-R-DNR-24UC	\$/kWh	0.0615	5,512,765.23	339
E-R-DNR-AICO	\$/kWh	0.0445	4,101,551.40	183
E-R-DNR-CTRL	\$/kWh	0.0190	967,733.06	18
E-R-DNR-NITE	\$/kWh	0.0190	210,981.22	4
E-R-DNR-CTUD	\$/kWh	0.0800	341,604.33	27
E-R-DNR-PROJ	\$/kWh	0.0615	10,424.51	1
E-R-DNR-DGEN	\$/kWh	0.0000	4,357.27	0
F-R-TLU	\$/day	0.3000	2,759,229.00	828
E-R-TLU-ONPK	\$/kWh	0.1355	10,790,153.00	1,462
E-R-TLU-PKIN	\$/kWh	0.1100	7,649,312.00	841
E-R-TLU-SHDR	\$/kWh	0.0950	8,272,603.00	786
E-R-TLU-SHIN	\$/kWh	0.0790	5,949,465.00	470

Forecast Revenue from Rotorua/Taupo prices RY23				
Price Code	Unit	Unit price	Forecast Quantity	Forecast revenue (\$000)
E-R-TLU-OFPK	\$/kWh	0.0330	8,848,403.00	292
E-R-TLU-CTRL	\$/kWh	0.0580	2,292,065.00	133
E-R-TLU-NITE	\$/kWh	0.0330	232,845.00	8
E-R-TLU-PROJ	\$/kWh	0.1000	285,210.00	29
E-R-TLU-DGEN	\$/kWh	0.0000	185,489.95	0
F-R-THU	\$/day	1.1500	2,378,788.00	2,736
E-R-THU-ONPK	\$/kWh	0.0840	9,755,871.00	819
E-R-THU-PKIN	\$/kWh	0.0600	15,303,883.00	918
E-R-THU-SHDR	\$/kWh	0.0580	7,778,090.00	451
E-R-THU-SHIN	\$/kWh	0.0420	11,850,159.00	498
E-R-THU-OFPK	\$/kWh	0.0190	11,859,768.00	225
E-R-THU-CTRL	\$/kWh	0.0190	4,329,368.00	82
E-R-THU-NITE	\$/kWh	0.0190	352,389.00	7
E-R-THU-DGEN	\$/kWh	0.0000	109,754.00	0
E-R-THU-PROJ	\$/kWh	0.0615	565,583.00	35
F-R-NDL	\$/day	1.5500	565,696.00	877
E-R-NDL-24UC	\$/kWh	0.0600	3,615,847.17	217
E-R-NDL-CTRL	\$/kWh	0.0330	47,924.90	2
E-R-NDL-NITE	\$/kWh	0.0200	11,369.63	0
E-R-NDL-CTUD	\$/kWh	0.0820	10,533.02	1
E-R-NDL-PROJ	\$/kWh	0.0600	18,512.98	1
E-R-NDL-DGEN	\$/kWh	0.0000	0.00	0
F-R-NDH	\$/day	1.1500	371,869.00	428
E-R-NDH-24UC	\$/kWh	0.0880	14,798,231.90	1,302
E-R-NDH-CTRL	\$/kWh	0.0460	420,677.85	19
E-R-NDH-NITE	\$/kWh	0.0290	382,799.04	11
E-R-NDH-CTUD	\$/kWh	0.1200	481,552.13	58
E-R-NDH-PROJ	\$/kWh	0.0880	96,812.54	9
E-R-NDH-DGEN	\$/kWh	0.0000	6,237.25	0
F-R-TCU	\$/day	1.1500	5,865.00	7
E-R-TCU-ONPK	\$/kWh	0.1190	87,354.20	10
E-R-TCU-SHDR	\$/kWh	0.0790	101,473.24	8
E-R-TCU-OFPK	\$/kWh	0.0290	37,084.10	1
E-R-TCU-CTRL	\$/kWh	0.0460	11,960.96	1
E-R-TCU-DGEN	\$/kWh	0.0000	0.00	0



Forecast Revenue from Rotorua/Taupo prices RY23				
Price Code	Unit	Unit price	Forecast Quantity	Forecast revenue (\$000)
E-R-TCU-PROJ	\$/kWh	0.0880	728.61	0
F-R-T1P	\$/day	1.3000	50,287.00	65
E-R-T1P-24UC	\$/kWh	0.0680	193,095.73	13
E-R-T1P-PROJ	\$/kWh	0.0680	3,915.00	0
F-R-T3P	\$/day	6.0500	1,571.00	10
E-R-T3P-24UC	\$/kWh	0.0510	147,465.41	8
E-R-T3P-PROJ	\$/kWh	0.0510	0.00	0
E-R-U01-UNMT	\$/kWh	0.2100	321,266.64	67
E-R-U02-UNMT	\$/kWh	0.2100	114,077.25	24
F-R-U03	\$/fitting	0.1750	3,869,293.00	677
E-R-U03-UNMT	\$/kWh	0.0160	3,547,776.17	57
E-R-U03-TAIC	\$/kWh	0.0160	0.00	0
E-R-UNISON	\$/kWh	0.0000	119,918.82	0
F-R-MC1	\$/day	5.5000	1,413,777.00	7,776
F-R-MC2	\$/day	11.2000	106,320.00	1,191
F-R-MC3	\$/day	22.0000	44,449.00	978
F-R-MC5	\$/day	28.0000	22,023.00	617
F-R-MC6	\$/day	34.0000	6,115.00	208
F-R-MC7	\$/day	40.0000	1,582.00	63
F-R-MC8	\$/day	46.0000	3,650.00	168
F-R-MC9	\$/day	52.0000	1,825.00	95
E-R-MC-24UC	\$/kWh	0.0460	115,210,161.79	5,300
E-R-MC-24UCHH	\$/kWh	0.0460	164,017.00	8
E-R-MC-CTRL	\$/kWh	0.0250	1,862,978.03	47
E-R-MC-NITE	\$/kWh	0.0150	7,078,986.70	106
E-R-MC-CTUD	\$/kWh	0.0590	14,528,593.06	857
E-R-MC-PROJ	\$/kWh	0.0460	77,964.75	4
E-R-MC-DEFT	\$/kWh	0.0550	5,900,408.25	325
E-R-MC-SOPD	\$/kW/mth	3.5000	199,661.30	699
E-R-MC-WOPD	\$/kW/mth	5.5000	145,509.08	800
E-R-MC-DMND	\$/kW/mth	3.2500	365,173.78	1,187
E-R-MC-KVAR	kVAR	7.5500	25,632.09	194
E-R-MC-RKVAR	kVAR	(7.5500)	-6,065.00	46
E-R-MC-TAIC	\$/kWh	0.0000	118,647,881.00	0
F-R-MC-T020	\$/day	5.2000	10,067.00	52

Forecast Revenue from Rotorua/Taupo prices RY23				
Price Code	Unit	Unit price	Forecast Quantity	Forecast revenue (\$000)
F-R-MC-T030	\$/day	6.8600	11,112.00	76
F-R-MC-T050	\$/day	9.0000	18,040.00	162
F-R-MC-T075	\$/day	11.1800	6,171.00	69
F-R-MC-T100	\$/day	13.2600	1,007.00	13
F-R-MC-T150	\$/day	14.5600	365.00	5
F-R-MC-COAD	\$/day	(1.9000)	365.00	(1)
E-R-MC-DGEN	\$/kWh	0.0000	140,552.76	0
E-R-I60-DMND	\$/kW/mth	0.0000	228,456.90	0
E-R-I60-KVAR	kVAR	7.5500	18,626.93	141
E-R-I60-RKVAR	kVAR	(7.5500)	10,921.28	(82)
E-R-I60-PROJ	\$/kWh	0.0000	0.00	0
E-R-I60-TAIC	\$/kWh	0.0000	84,580,906.00	0
F-R-I60-001	\$/day	912.52	365.00	333
F-R-I60-002	\$/day	1,160.26	365.00	423
F-R-I60-003	\$/day	796.51	365.00	291
F-R-I60-005	\$/day	44.50	0.00	0
F-R-I60-006	\$/day	97.64	365.00	36
F-R-I60-007	\$/day	59.22	365.00	22
F-R-I60-008	\$/day	167.85	365.00	61
F-R-I60-009	\$/day	217.87	365.00	80
F-R-I60-011	\$/day	322.47	365.00	118
F-R-I60-012	\$/day	552.07	365.00	202
F-R-I60-013	\$/day	408.17	365.00	149
F-R-I60-014	\$/day	1.00	365.00	0
F-R-I60-015	\$/day	233.84	365.00	85
F-R-I60-016	\$/day	225.13	0.00	0
F-R-I60-017	\$/day	176.65	365.00	64
F-R-I60-018	\$/day	57.66	365.00	21
F-R-I60-019	\$/day	23.09	365.00	8
F-R-I60-020	\$/day	7.46	365.00	3
F-R-I60-021	\$/day	6.54	365.00	2
F-R-I60-026	\$/day	1,585.47	365.00	579
F-R-I60-027	\$/day	137.07	365.00	50
F-R-I60-028	\$/day	85.03	365.00	31
F-R-I60-031	\$/day	0.0000	365.00	0

Forecast Revenue from Rotorua/Taupo prices RY23				
Price Code	Unit	Unit price	Forecast Quantity	Forecast revenue (\$000)
F-R-I60-034	\$/day	0.0000	365.00	0
F-R-I60-041	\$/day	127.10	365.00	46
F-R-I60-042	\$/day	142.29	365.00	52
F-R-I60-043	\$/day	140.67	365.00	51
F-R-I60-044	\$/day	120.85	365.00	44
F-R-I60-045	\$/day	136.82	365.00	50
F-R-I60-046	\$/day	118.01	365.00	43
F-R-I60-047	\$/day	126.08	365.00	46
F-R-I60-048	\$/day	139.39	365.00	51
F-R-I60-049	\$/day	136.55	365.00	50
F-R-I60-050	\$/day	118.72	365.00	43
F-R-I60-051	\$/day	138.13	365.00	50
F-R-I60-052	\$/day	122.81	365.00	45
F-R-I60-053	\$/day	137.60	365.00	50
F-R-I60-054	\$/day	137.74	365.00	50
F-R-I60-055	\$/day	120.42	365.00	44
F-R-I60-056	\$/day	119.65	365.00	44
F-R-I60-057	\$/day	119.83	365.00	44
F-R-I60-058	\$/day	138.01	365.00	50
F-R-I60-059	\$/day	168.25	365.00	61
F-R-I60-060	\$/day	263.30	365.00	96
F-R-I60-061	\$/day	34.25	365.00	13
F-R-I60-062	\$/day	79.66	365.00	29
F-R-I60-063	\$/day	692.00	0.00	0
F-R-I60-064	\$/day	136.78	0.00	0
F-R-I60-065	\$/day	32.18	0.00	0
F-R-I60-098	\$/day	0.00	365.00	0
F-R-I60-099	\$/day	0.00	0.00	0
F-R-I60-FRD1	\$/day	127.17	274.00	35
F-R-I60-FRD2	\$/day	12.66	274.00	3
<b>ΣP<sub>2022/23</sub>*Q<sub>2022/23</sub></b>				<b>58,987</b>