



**DS5004**

**Unison Default Price-Quality Path  
Annual Price-Setting Compliance  
Statement  
2023-2024**

**For the Assessment Period Ending 31 March 2024**

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

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## DS5004 Unison Default Price-Quality Path Annual Price-Setting Compliance Statement 2023-2024

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**Document purpose** Regulatory disclosure demonstrating Unison’s compliance with the Default Price-Quality Path in respect of price setting for the 2023-2024 assessment period.

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**Intended audience** Publicly disclosed.

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**Document contributors**

<b>Contributors</b>	<b>Name and Position Title</b>	<b>Approval Date</b>
Owner	Grant Sargison Pricing Manager	27/03/2023
Authoriser	Grant Sargison Pricing Manager	03/04/2023
Approver	Jason Larkin General Manager Commercial & Centralines	14/04/2023

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**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.

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**Certification  
of Annual  
Compliance  
Statement**



**CERTIFICATION FOR ANNUAL PRICE-SETTING COMPLIANCE  
STATEMENT**

Pursuant to Schedule 6

We, Philip Hocquard and Dan Druzianic, 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 except in the following respect:

- As a result of the timing of the catastrophic event of Cyclone Gabrielle and the regulatory timeframes relating to this statement, the impacts of the Cyclone have not been considered.

Director

Date: 29 March 2023

Director

Date: 29 March 2023

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**Key dates**

**Published Date**

14/04/2023

**Related references**

**Legislation**

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

**Clarification**

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**Content**

This document contains the following topics:

Topic	See Page
1. Introduction .....	5
2. Statement of Compliance .....	6
3. Forecast Allowable Revenue.....	7
4. Forecast Revenue from Prices .....	8
5. Maximum Allowable Forecast Revenue from Prices.....	10
6. Analysis of the Components and Calculation of Forecast Allowable Revenue .....	11
Appendix A – Compliance References.....	15
Appendix B – Revenue Forecasting.....	16
Appendix C – Prices and Forecast Quantities for Pricing Year 2024 – Hawke’s Bay.....	19
Appendix D – Prices and Forecast Quantities for Pricing Year 2024 – Rotorua/Taupō.....	24

# 1. Introduction

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## 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 was increased in the 2021/22 financial year 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 fourth assessment period, commencing 1 April 2023 and ending 31 March 2024.

The potential or actual impacts of Cyclone Gabrielle (which hit Unison's regions on 13 and 14 February 2023) have not been able to be considered or taken into account in order to meet the timing requirements of the DPP Determination. It is not yet known whether there will be a material impact on the electricity use of Hawke's Bays customers. A material impact is not expected for the Rotorua or Taupō regions.

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## 2. Statement of Compliance

**2.1 Compliance with 11.2(a)** Unison has complied with the price path for the fourth assessment period as demonstrated in the table below and consistent with clause 8.4 of the 2020 DPP Determination.

Compliance with Price Path RY24		
<p><i>Forecast revenue from prices must not exceed the lesser of:</i></p> <p>(a) <i>The forecast allowable revenue for that assessment period, and</i>                      (b) <i>The amount determined in accordance with the following formula:</i></p> <p style="text-align: center;"><i>the forecast revenue from prices for the previous assessment period x (1 + limit on annual percentage increase in forecast revenue from prices).<sup>1</sup></i></p>		
Term	Description	Value (\$000)
Forecast revenue from prices (\$000)	Forecast prices between 1 April 2023 and 31 March 2024 multiplied by forecast quantities for the period ending 31 March 2024.	149,775
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.	149,788
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).	155,813
Maximum allowable forecast revenue (\$000)	The lesser of the forecast allowable revenue and maximum allowable forecast revenue from prices.	149,788
<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 RY24**

**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*.

<sup>1</sup> The DPP Determination defines “limit on annual percentage increase in forecast revenue from prices” as “means for all non-exempt EDBs, 10%”.

### 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 2022 Amendment Determination.

Forecast Allowable Revenue RY24		
Term	Description	Value (\$000)
Forecast net allowable revenue	Forecast net allowable revenue as set out in section 4.2.3 of the Amendment Determination 2022.	106,388
Forecast pass through costs	Forecast pass-through costs	1,787
Forecast recoverable costs	Forecast recoverable costs, excluding any recoverable cost that is a revenue wash-up drawn down amount	33,723
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)	7,890
Pass-through allowance balance	For the fourth assessment period is nil.	0
<b>Total</b>		<b>149,788</b>

**Table 2 – Forecast Allowable Revenue RY24**

**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.

To meet regulatory requirements, the potential or actual implications from Cyclone Gabrielle, which severely impacted Hawke’s Bay on 13 and 14 February 2023, have not been able to be considered. The information described below represents pre-13 February 2023 data.

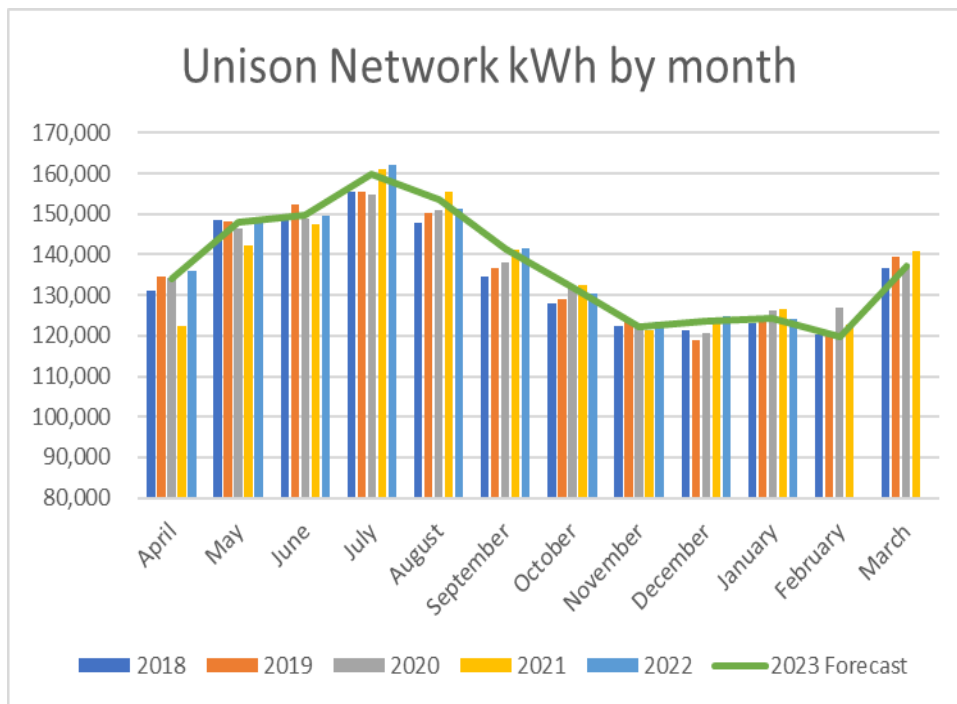
**4.2 Demonstrating compliance**

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/Taupō	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 RY24	
$\Sigma P_{2023/24} * Q_{2023/24}$	<b>Value (\$000)</b>
Forecast prices between 1 April 2023 and 31 March 2024 multiplied by forecast quantities for the period ending 31 March 2024.	
Hawke's Bay	88,011
Central Region	61,764
<b>Total</b>	<b>149,775</b>

**Table 4 – Forecast Revenue from Prices RY24**

### 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

**5.1 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 RY24</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Forecast revenue from prices from previous assessment period	Forecast prices between 1 April 2022 and 31 March 2023 multiplied by forecast quantities for the period ending 31 March 2023	141,648
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>155,813</b>

**Table 5 – Maximum Allowable Forecast Revenue from Prices RY24**

## 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 2024. The costs total \$35,510. All other pass-through and recoverable costs not included in Tables 6 and 7 are not applicable to Unison for the 2024 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 RY24			
Forecast pass-through Costs	Hawke's Bay \$000	Rotorua/ Taupō \$000	Unison Network \$000
Rates on system fixed assets	112	857	969
Commerce Act levies	215	150	365
Electricity Authority levies	225	153	378
Utilities Disputes levies	45	30	75
<b>Total Forecast pass-through Costs</b>	<b>597</b>	<b>1,190</b>	<b>1,787</b>

**Table 6 – Forecast Pass-through Costs RY24**

Forecast Recoverable Costs RY24			
Forecast Recoverable Costs	Hawke's Bay \$000	Rotorua/ Taupō \$000	Unison Network \$000
IRIS incentive adjustment	2,769	1,924	4,692
Transpower transmission charges	16,612	11,581	28,193
New investment contract charges	921	60	981
System operator services charges	0	0	0
Avoided transmission charges - purchased assets	0	0	0
Distributed generation allowance	0	0	0
Claw-back	0	0	0
Catastrophic event allowance	0	0	0
Extended reserves allowance	0	0	0
Quality incentive adjustment	-151	-105	-255
Capex wash-up adjustment	13	9	23
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	53	37	89
Innovation project allowance	0	0	0
<b>Total Forecast Recoverable Costs</b>	<b>20,217</b>	<b>13,506</b>	<b>33,723</b>

**Table 7 – Forecast Recoverable Costs RY24**

Total Forecast Pass-through and Recoverable Costs RY24			
Component	Hawke's Bay \$000	Rotorua/ Taupō \$000	Unison Network \$000
Forecast Pass-through Costs	597	1,190	1,787
Forecast Recoverable Costs	20,217	13,506	33,723
<b>Total Forecast Pass-through and Recoverable Costs</b>	<b>20,815</b>	<b>14,696</b>	<b>35,510</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’. As explained above, the data relied upon has, by necessity, been pre-Cyclone Gabrielle and its resulting impacts on Unison’s communities. It is therefore, ‘demonstrably reasonable’ without consideration of the impacts of Cyclone Gabrielle.

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 Benefit-based Charges	As notified by Transpower.
Transpower Residual Charges	As notified by Transpower.
Transpower Transition Charges	As notified by Transpower.
Transpower New Investment Charges	As notified by Transpower.
Distributed Generation Allowance	With the implementation of the new Transmission Pricing Methodology there are no Distributed Generation Allowance costs for the RY24 period.
Quality Incentive Adjustment	Determined for 2021/2022 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 fourth assessment period calculated in accordance with Schedule 1.7 of the 2020 DPP Determination.

<b>Opening Wash-up Account Balance RY24</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Closing Wash-up Account Balance 3 <sup>rd</sup> period	Wash-up amount for the assessment period ending 31 March 2023	7,263
less Voluntary Undercharging Amount forgone		0
67th percentile estimate of post-tax WACC		4.23%
<b>Opening Wash-up Account Balance 4<sup>th</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>	7,890

**Table 10 – Opening Wash-up Account Balance RY24**

## 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.

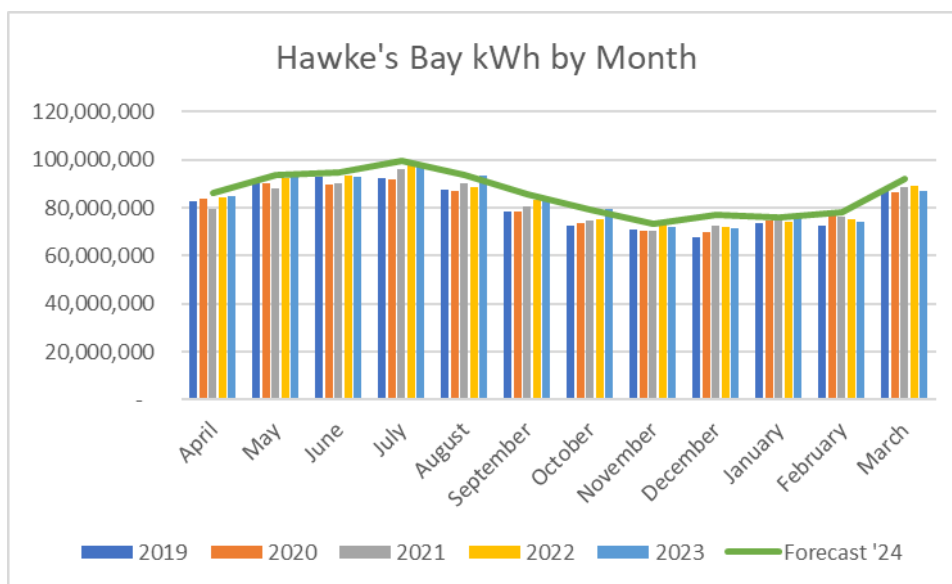
The forecasts are prepared for the next financial year using a range of available information including the following:

- 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 as at November 2022.

### Recent billing data

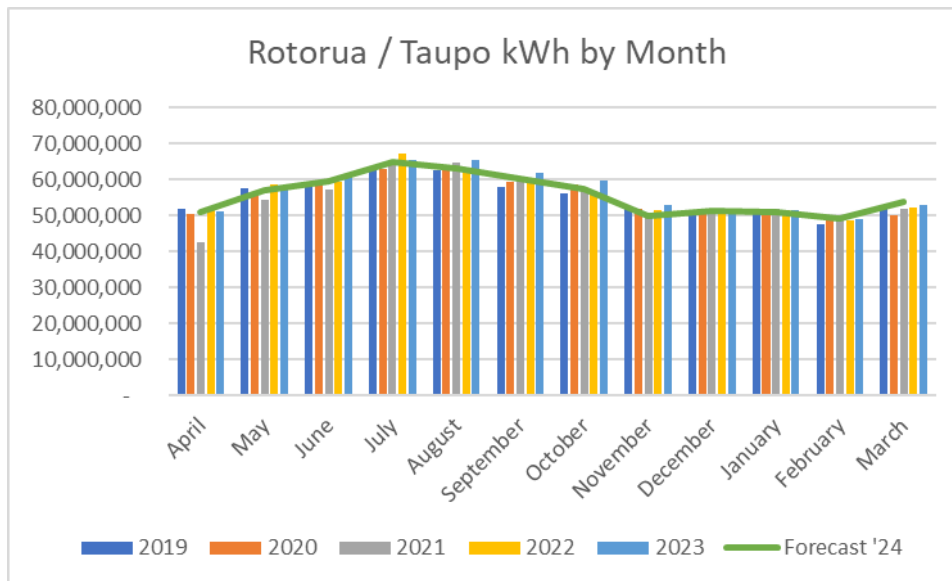
The forecast electricity consumption is also compared to recent retailer submissions to the wholesale electricity market. This ensures consistency with historical electricity usage across both network regions. Hawke’s Bay has shown growth in consumption month by month, particularly in the last two financial years. Forecast volumes reflects this by factoring in some consumption growth throughout the year. Included in Hawke’s Bay consumption growth is the increasing industrial load coming on stream in the coming year. The Rotorua/Taupō region is more stable in terms of consumption, with volumes forecast at similar levels to the previous two years.

The two charts below give a month-on-month pattern over the last five years. Actual values have been used up until December 2022 with forecasts used from that period.



**Graph 2 – Hawke’s Bay electricity consumption**





**Graph 3 – Rotorua/Taupō electricity consumption**

**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	2019	2020	2021	2022	2023	Forecast 2024
Rotorua/Taupō	Commercial	4,347	4,345	4,359	4,384	4,483	4,573
	General	2,904	2,906	2,965	2,911	3,161	3,054
	Industrial	40	38	39	40	42	46
	Residential	41,316	41,626	42,042	42,314	42,707	43,396
Hawke’s Bay	Commercial	3,643	3,711	3,773	3,798	3,868	4,188
	General	6,249	6,203	6,161	6,105	6,241	6,394
	Industrial	42	43	47	47	49	55
	Residential	54,076	54,549	55,127	55,479	56,139	56,707
<b>Grand Total</b>		<b>112,617</b>	<b>113,421</b>	<b>114,513</b>	<b>115,078</b>	<b>116,251</b>	<b>118,413</b>

**Table 13 – Active Billed Connections**

**Assumptions** Unison recognises that economic factors, such as an increased level of inflation and the legacy of Covid-19 disruption, will cause levels of change to individual consumers and businesses. The forecasts have been calculated using summated data across a large number of data points to identify any trends and impacts across broad customer groups. The potential and likely impacts of Cyclone Gabrielle have not been able to be considered. However, this should deliver a forecast that removes individual short-term behaviour in favour of recognised medium to long term patterns. With some forecast activity occurring over 12 months into the future this method is seen as being conservative and with a higher likelihood of accuracy than factoring in a wide range of more localised predictive factors.

Forecast adjustments are applied for:

- changes in the number of days (e.g. leap years)
- changes to price categories (rationalisation of General 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.

The impact of Cyclone Gabrielle was more severe in Hawke's Bay than in the Rotorua/Taupō region. Rotorua and Taupō are not expected to experience a material impact on electricity use in those communities. It is not yet known whether there will be a material impact on Hawke's Bay's electricity use over the 23/24 financial year, and that has not been able to be considered or factored into the forecast volumes.

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## Appendix C – Prices and Forecast Quantities for Pricing Year 2024 – 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 fourth assessment period. The ‘forecast revenue from prices’ is determined by Schedule 1.3 of 2020 DPP Determination.

Forecast revenue from Hawke’s Bay prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-H-M11	\$/day	0.4500	5,089,506	2,290
E-H-M11-24UC	\$/kWh	0.1040	43,919,563	4,568
E-H-M11-AICO	\$/kWh	0.0850	22,345,041	1,899
E-H-M11-CTRL	\$/kWh	0.0570	10,402,002	593
E-H-M11-NITE	\$/kWh	0.0340	231,156	8
E-H-M11-CTUD	\$/kWh	0.1340	77,052	10
E-H-M11-PROJ	\$/kWh	0.1040	77,052	8
E-H-M11-DGEN	\$/kWh	0.0000	1,552,218	0
F-H-M12	\$/day	1.2200	4,569,197	5,574
E-H-M12-24UC	\$/kWh	0.0690	73,230,163	5,053
E-H-M12-AICO	\$/kWh	0.0500	33,845,874	1,692
E-H-M12-CTRL	\$/kWh	0.0220	14,988,452	330
E-H-M12-NITE	\$/kWh	0.0230	243,715	6
E-H-M12-CTUD	\$/kWh	0.0890	121,857	11
E-H-M12-PROJ	\$/kWh	0.0690	487,429	34
E-H-M12-DGEN	\$/kWh	0.0000	2,225,674	0
F-H-DNR	\$/day	1.6000	218,564	350
E-H-DNR-24UC	\$/kWh	0.0690	1,283,233	89
E-H-DNR-AICO	\$/kWh	0.0500	530,567	27
E-H-DNR-CTRL	\$/kWh	0.0220	185,082	4
E-H-DNR-NITE	\$/kWh	0.0230	123,388	3
E-H-DNR-CTUD	\$/kWh	0.0890	345,486	31
E-H-DNR-PROJ	\$/kWh	0.0690	0	0
E-H-DNR-DGEN	\$/kWh	0.0000	9,165	0
F-H-TLU	\$/day	0.4500	5,759,615	2,592
E-H-TLU-ONPK	\$/kWh	0.1370	19,457,639	2,666
E-H-TLU-SHDR	\$/kWh	0.1010	16,034,135	1,619
E-H-TLU-OFPK	\$/kWh	0.0340	17,334,200	589
E-H-TLU-CTRL	\$/kWh	0.0570	5,200,260	296
E-H-TLU-NITE	\$/kWh	0.0340	43,335	1
E-H-TLU-PROJ	\$/kWh	0.1040	12,567,295	1,307
E-H-TLU-DGEN	\$/kWh	0.0000	1,786,387	0
E-H-TLU-PKIN	\$/kWh	0.1110	8,233,745	914
E-H-TLU-SHIN	\$/kWh	0.0820	7,800,390	640
F-H-THU	\$/day	1.2200	5,021,208	6,126

Forecast revenue from Hawke's Bay prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
E-H-THU-ONPK	\$/kWh	0.0930	29,909,662	2,782
E-H-THU-SHDR	\$/kWh	0.0640	25,313,299	1,620
E-H-THU-OPFK	\$/kWh	0.0230	26,645,578	613
E-H-THU-CTRL	\$/kWh	0.0220	7,327,534	161
E-H-THU-NITE	\$/kWh	0.0230	66,614	2
E-H-THU-DGEN	\$/kWh	0.0000	2,484,522	0
E-H-THU-PROJ	\$/kWh	0.0690	19,318,044	1,333
E-H-THU-PKIN	\$/kWh	0.0660	13,322,789	879
E-H-THU-SHIN	\$/kWh	0.0460	11,324,371	521
F-H-NDA	\$/day	1.5000	2,059,464	3,089
E-H-NDA-24UC	\$/kWh	0.0900	35,074,034	3,157
E-H-NDA-CTRL	\$/kWh	0.0500	872,250	44
E-H-NDA-CTUD	\$/kWh	0.1210	1,619,349	196
E-H-NDA-NITE	\$/kWh	0.0320	574,985	18
E-H-NDA-PROJ	\$/kWh	0.0900	277,720	25
E-H-NDA-DGEN	\$/kWh	0.0000	97,379	0
F-H-TCU	\$/day	1.5000	16,267	24
E-H-TCU-ONPK	\$/kWh	0.1190	223,716	27
E-H-TCU-SHDR	\$/kWh	0.0810	236,705	19
E-H-TCU-OPFK	\$/kWh	0.0300	124,906	4
E-H-TCU-CTRL	\$/kWh	0.0500	12,497	1
E-H-TCU-DGEN	\$/kWh	0.0000	0	0
E-H-TCU-PROJ	\$/kWh	0.1190	10,808	1
E-H-U01-UNMT	\$/kWh	0.2200	477,012	105
E-H-U02-UNMT	\$/kWh	0.2200	535,680	118
F-H-U03	\$/fitting/mth	0.1900	6,370,745	1,210
E-H-U03-UNMT	\$/kWh	0.0150	5,013,590	75
F-H-MC1	\$/day	6.2500	1,168,085	7,301
F-H-MC2	\$/day	12.5000	133,893	1,674
F-H-MC3	\$/day	25.0000	83,814	2,095
F-H-MC5	\$/day	31.0000	20,832	646
F-H-MC6	\$/day	36.0000	13,451	484
F-H-MC7	\$/day	41.0000	8,936	366
F-H-MC8	\$/day	46.0000	5,856	269
F-H-MC9	\$/day	51.0000	5,490	280
E-H-MC-24UC	\$/kWh	0.0390	118,048,650	4,604
E-H-MC-CTRL	\$/kWh	0.0210	354,421	7
E-H-MC-NITE	\$/kWh	0.0130	2,725,109	35
E-H-MC-CTUD	\$/kWh	0.0500	6,544,001	327
E-H-MC-PROJ	\$/kWh	0.0390	641,569	25
E-H-MC-DEFT	\$/kWh	0.0470	4,726,030	222
E-H-MC-SOPD	\$/kW/mth	3.2500	411,828	1,338
E-H-MC-WOPD	\$/kW/mth	5.2500	301,571	1,583

Forecast revenue from Hawke's Bay prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
E-H-MC-DMND	\$/kW/mth	3.2500	755,667	2,456
E-H-MC-KVAR	\$/kVAR/mth	7.5500	48,969	370
E-H-MC-RKVAR	\$/kVAR/mth	(7.5500)	0	0
E-H-MC-TAIC	\$/kWh	0.0000	223,060,420	0
F-H-MC-T020	\$/day	5.4600	20,862	114
F-H-MC-T030	\$/day	7.2000	16,836	121
F-H-MC-T050	\$/day	9.4500	18,666	176
F-H-MC-T075	\$/day	11.7400	13,176	155
F-H-MC-T100	\$/day	13.9200	6,222	87
F-H-MC-T150	\$/day	15.2900	1,098	17
F-H-MC-COAD	\$/day	(1.9000)	366	(1)
E-H-MC-DGEN	\$/kWh	0.0000	464,870	0
E-H-I60-DMND	\$/kW/mth	0.0000	486,691	0
E-H-I60-KVAR	\$/kVAR/mth	7.5500	35,139	265
E-H-I60-RKVAR	\$/kVAR/mth	(7.5500)	0	0
E-H-I60-TAIC	\$/kWh	0.0000	212,129,549	0
F-H-I60-007	\$/day	612.2200	366	224
F-H-I60-008	\$/day	421.1600	366	154
F-H-I60-009	\$/day	758.3300	366	278
F-H-I60-010	\$/day	642.3400	366	235
F-H-I60-011	\$/day	361.9000	366	132
F-H-I60-012	\$/day	599.6400	366	219
F-H-I60-013	\$/day	1,798.6300	366	658
F-H-I60-014	\$/day	1,134.8800	366	415
F-H-I60-015	\$/day	563.7300	366	206
F-H-I60-016	\$/day	536.8500	366	196
F-H-I60-017	\$/day	1,568.1000	366	574
F-H-I60-021	\$/day	400.7700	366	147
F-H-I60-022	\$/day	434.2700	366	159
F-H-I60-023	\$/day	343.3000	366	126
F-H-I60-024	\$/day	361.1400	366	132
F-H-I60-025	\$/day	76.4600	366	28
F-H-I60-026	\$/day	238.7200	366	87
F-H-I60-028	\$/day	767.9600	0	0
F-H-I60-031	\$/day	6.0700	0	0
F-H-I60-033	\$/day	265.8200	366	97
F-H-I60-034	\$/day	133.8000	366	49
F-H-I60-035	\$/day	137.8900	366	50
F-H-I60-036	\$/day	192.3700	366	70
F-H-I60-037	\$/day	67.1600	366	25
F-H-I60-038	\$/day	178.4700	366	65
F-H-I60-039	\$/day	195.2400	366	71
F-H-I60-040	\$/day	161.3300	366	59

Forecast revenue from Hawke's Bay prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-H-160-041	\$/day	44.8800	366	16
F-H-160-042	\$/day	233.5900	366	85
F-H-160-043	\$/day	166.0600	366	61
F-H-160-044	\$/day	100.9700	366	37
F-H-160-045	\$/day	98.0900	366	36
F-H-160-047	\$/day	97.4700	366	36
F-H-160-048	\$/day	94.6900	366	35
F-H-160-049	\$/day	191.5700	366	70
F-H-160-050	\$/day	555.8900	366	203
F-H-160-051	\$/day	555.8900	366	203
F-H-160-052	\$/day	82.6100	366	30
F-H-160-053	\$/day	50.0300	366	18
F-H-160-054	\$/day	256.0800	366	94
F-H-160-055	\$/day	163.9300	0	0
F-H-160-056	\$/day	28.2100	366	10
F-H-160-057	\$/day	26.9800	366	10
F-H-160-058	\$/day	31.2500	366	11
F-H-160-059	\$/day	86.2000	366	32
F-H-160-060	\$/day	26.9800	366	10
F-H-160-061	\$/day	97.0500	366	36
F-H-160-062	\$/day	106.8400	366	39
F-H-160-063	\$/day	55.5300	366	20
F-H-160-064	\$/day	546.4900	366	200
F-H-160-065	\$/day	263.4200	366	96
F-H-160-066	\$/day	357.8100	366	131
F-H-160-067	\$/day	100.2900	366	37
F-H-160-068	\$/day	68.5700	366	25
F-H-160-069	\$/day	38.5700	366	14
F-H-160-070	\$/day	98.0700	366	36
F-H-160-071	\$/day	199.6200	366	73
F-H-160-072	\$/day	45.4300	366	17
F-H-160-073	\$/day	139.5500	366	51
F-H-160-074	\$/day	73.0700	366	27
F-H-160-075	\$/day	60.7100	366	22
F-H-160-076	\$/day	291.5300	366	107
F-H-160-077	\$/day	19.5700	366	7
F-H-160-078	\$/day	308.1200	366	113
F-H-160-079	\$/day	291.2300	366	107
F-H-160-080	\$/day	176.6100	366	65
F-H-160-081	\$/day	47.3000	366	17
F-H-160-082	\$/day	78.0200	366	29
F-H-160-083	\$/day	333.1100	366	122
F-H-160-084	\$/day	457.3300	366	167

Forecast revenue from Hawke's Bay prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-H-160-085	\$/day	166.4300	366	61
F-H-160-086	\$/day	110.1600	366	40
F-H-160-087	\$/day	109.0400	366	40
F-H-160-088	\$/day	107.8900	366	39
F-H-160-089	\$/day	36.7700	366	13
F-H-160-090	\$/day	265.0000	366	97
F-H-160-091	\$/day	47.7300	366	17
F-H-160-092	\$/day	102.0100	366	37
F-H-160-093	\$/day	94.0700	366	34
F-H-160-094	\$/day	102.7600	366	38
F-H-160-099	\$/day	0.0000	0	0
F-H-160-100	\$/day	80.9500	366	30
F-H-160-101	\$/day	69.7500	366	26
F-H-160-102	\$/day	199.0400	366	73
F-H-160-103	\$/day	27.6200	366	10
F-H-160-104	\$/day	175.5500	122	21
F-H-160-105	\$/day	102.5700	122	13
F-H-160-107	\$/day	172.1300	210	36
<b>ΣP<sub>2023/24</sub>*Q<sub>2023/24</sub></b>				<b>88,011</b>

## Appendix D – Prices and Forecast Quantities for Pricing Year 2024 – Rotorua/Taupō

### Forecast revenue from prices

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

Forecast revenue from Rotorua/Taupō prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-R-M11	\$/day	0.4500	4,471,345	2,012
E-R-M11-24UC	\$/kWh	0.0940	29,117,109	2,737
E-R-M11-AICO	\$/kWh	0.0770	32,681,675	2,516
E-R-M11-CTRL	\$/kWh	0.0520	4,659,274	242
E-R-M11-NITE	\$/kWh	0.0310	857,446	27
E-R-M11-CTUD	\$/kWh	0.1220	924,220	113
E-R-M11-PROJ	\$/kWh	0.0940	160,936	15
E-R-M11-DGEN	\$/kWh	0.0000	837,553	0
F-R-M12	\$/day	1.2200	4,151,973	5,065
E-R-M12-24UC	\$/kWh	0.0590	45,080,879	2,660
E-R-M12-AICO	\$/kWh	0.0420	38,437,382	1,614
E-R-M12-CTRL	\$/kWh	0.0170	7,118,033	121
E-R-M12-NITE	\$/kWh	0.0180	1,423,607	26
E-R-M12-CTUD	\$/kWh	0.0775	2,372,678	184
E-R-M12-PROJ	\$/kWh	0.0590	527,262	31
E-R-M12-DGEN	\$/kWh	0.0000	761,632	0
F-R-DNR	\$/day	1.6000	1,054,329	1,687
E-R-DNR-24UC	\$/kWh	0.0590	5,574,606	329
E-R-DNR-AICO	\$/kWh	0.0420	3,716,404	156
E-R-DNR-CTRL	\$/kWh	0.0170	819,795	14
E-R-DNR-NITE	\$/kWh	0.0180	273,265	5
E-R-DNR-CTUD	\$/kWh	0.0775	546,530	42
E-R-DNR-PROJ	\$/kWh	0.0590	0	0
E-R-DNR-DGEN	\$/kWh	0.0000	3,601	0
F-R-TLU	\$/day	0.4500	3,330,969	1,499
E-R-TLU-ONPK	\$/kWh	0.1240	11,322,070	1,404
E-R-TLU-PKIN	\$/kWh	0.1000	4,561,682	456
E-R-TLU-SHDR	\$/kWh	0.0910	9,350,817	851
E-R-TLU-SHIN	\$/kWh	0.0730	4,321,594	315
E-R-TLU-OFPK	\$/kWh	0.0310	10,108,991	313
E-R-TLU-CTRL	\$/kWh	0.0520	3,032,697	158
E-R-TLU-NITE	\$/kWh	0.0310	50,545	2
E-R-TLU-PROJ	\$/kWh	0.1240	6,962,568	863
E-R-TLU-DGEN	\$/kWh	0.0000	639,706	0



Forecast revenue from Rotorua/Taupō prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-R-THU	\$/day	1.2200	2,782,621	3,395
E-R-THU-ONPK	\$/kWh	0.0800	15,716,796	1,257
E-R-THU-PKIN	\$/kWh	0.0560	6,665,606	373
E-R-THU-SHDR	\$/kWh	0.0550	13,331,211	733
E-R-THU-SHIN	\$/kWh	0.0390	5,665,765	221
E-R-THU-OPFK	\$/kWh	0.0180	14,032,854	253
E-R-THU-CTRL	\$/kWh	0.0170	3,859,035	66
E-R-THU-NITE	\$/kWh	0.0180	70,164	1
E-R-THU-DGEN	\$/kWh	0.0000	519,959	0
E-R-THU-PROJ	\$/kWh	0.0800	10,173,819	814
F-R-NDA	\$/day	1.5000	1,053,818	1,581
E-R-NDA-24UC	\$/kWh	0.0650	19,484,083	1,266
E-R-NDA-CTRL	\$/kWh	0.0360	462,916	17
E-R-NDA-CTUD	\$/kWh	0.0890	842,445	75
E-R-NDA-NITE	\$/kWh	0.0200	454,577	9
E-R-NDA-PROJ	\$/kWh	0.0650	31,328	2
E-R-NDA-DGEN	\$/kWh	0.0000	9,299	0
F-R-TCU	\$/day	1.5000	7,153	11
E-R-TCU-ONPK	\$/kWh	0.0860	74,122	6
E-R-TCU-SHDR	\$/kWh	0.0590	83,258	5
E-R-TCU-OPFK	\$/kWh	0.0210	38,424	1
E-R-TCU-CTRL	\$/kWh	0.0360	9,273	0
E-R-TCU-DGEN	\$/kWh	0.0000	0	0
E-R-TCU-PROJ	\$/kWh	0.0860	1,240	0
E-R-U01-UNMT	\$/kWh	0.2200	337,386	74
E-R-U02-UNMT	\$/kWh	0.2200	112,255	25
F-R-U03	\$/fitting/mth	0.1900	3,909,805	743
E-R-U03-UNMT	\$/kWh	0.0150	2,879,458	43
E-R-U03-TAIC	\$/kWh	0.0150	0	0
E-R-UNISON	\$/kWh	0.0000	113,148	0
F-R-MC1	\$/day	5.7500	1,418,645	8,157
F-R-MC2	\$/day	11.5000	111,629	1,284
F-R-MC3	\$/day	22.5000	47,519	1,069
F-R-MC5	\$/day	28.0000	22,265	623
F-R-MC6	\$/day	34.0000	6,985	237
F-R-MC7	\$/day	40.0000	3,325	133
F-R-MC8	\$/day	46.0000	3,660	168
F-R-MC9	\$/day	52.0000	1,830	95
E-R-MC-24UC	\$/kWh	0.0390	112,583,167	4,391
E-R-MC-CTRL	\$/kWh	0.0210	1,861,267	39
E-R-MC-NITE	\$/kWh	0.0130	6,492,500	84
E-R-MC-CTUD	\$/kWh	0.0500	14,631,582	732
E-R-MC-PROJ	\$/kWh	0.0390	71,232	3

Forecast revenue from Rotorua/Taupō prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
E-R-MC-DEFT	\$/kWh	0.0470	5,584,609	262
E-R-MC-SOPD	\$/kW/mth	3.2500	213,951	695
E-R-MC-WOPD	\$/kW/mth	5.2500	159,508	837
E-R-MC-DMND	\$/kW/mth	3.2000	395,551	1,266
E-R-MC-KVAR	\$/kVAR/mth	7.5500	30,061	227
E-R-MC-RKVAR	\$/kVAR/mth	(7.5500)	0	0
E-R-MC-TAIC	\$/kWh	0.0000	118,351,813	0
F-R-MC-T020	\$/day	5.4600	10,614	58
F-R-MC-T030	\$/day	7.2000	11,712	84
F-R-MC-T050	\$/day	9.4500	20,130	190
F-R-MC-T075	\$/day	11.7400	6,222	73
F-R-MC-T100	\$/day	13.9200	1,098	15
F-R-MC-T150	\$/day	15.2900	366	6
F-R-MC-COAD	\$/day	(1.9000)	366	(1)
E-R-MC-DGEN	\$/kWh	0.0000	178,794	0
E-R-I60-DMND	\$/kW/mth	0.0000	243,287	0
E-R-I60-KVAR	\$/kVAR/mth	7.5500	40,364	305
E-R-I60-RKVAR	\$/kVAR/mth	(7.5500)	0	0
E-R-I60-PROJ	\$/kWh	0.0000	0	0
E-R-I60-TAIC	\$/kWh	0.0000	93,006,485	0
F-R-I60-001	\$/day	949.4000	366	347
F-R-I60-002	\$/day	1,097.5600	366	402
F-R-I60-003	\$/day	771.9200	366	283
F-R-I60-005	\$/day	47.2200	0	0
F-R-I60-006	\$/day	93.8900	366	34
F-R-I60-007	\$/day	68.5700	366	25
F-R-I60-008	\$/day	158.4100	366	58
F-R-I60-009	\$/day	224.6200	366	82
F-R-I60-011	\$/day	378.1500	366	138
F-R-I60-012	\$/day	509.0500	366	186
F-R-I60-013	\$/day	462.5500	366	169
F-R-I60-014	\$/day	1.0000	366	0
F-R-I60-015	\$/day	233.6900	366	86
F-R-I60-017	\$/day	187.4400	366	69
F-R-I60-018	\$/day	59.6300	366	22
F-R-I60-019	\$/day	24.5000	366	9
F-R-I60-020	\$/day	24.1100	366	9
F-R-I60-021	\$/day	6.9400	366	3
F-R-I60-026	\$/day	1,682.3300	366	616
F-R-I60-027	\$/day	150.0100	366	55
F-R-I60-028	\$/day	84.7900	366	31
F-R-I60-031	\$/day	0.0000	0	0
F-R-I60-034	\$/day	0.0000	0	0

Forecast revenue from Rotorua/Taupō prices RY24				
Price Code	Unit	Unit price	Forecast quantity	Forecast revenue (\$000)
F-R-160-041	\$/day	135.8100	366	50
F-R-160-042	\$/day	154.3100	366	56
F-R-160-043	\$/day	150.5100	366	55
F-R-160-044	\$/day	129.5400	366	47
F-R-160-045	\$/day	146.7200	366	54
F-R-160-046	\$/day	126.2000	366	46
F-R-160-047	\$/day	131.7300	366	48
F-R-160-048	\$/day	150.3400	366	55
F-R-160-049	\$/day	147.2700	366	54
F-R-160-050	\$/day	127.4000	366	47
F-R-160-051	\$/day	148.2100	366	54
F-R-160-052	\$/day	132.0100	366	48
F-R-160-053	\$/day	149.4900	366	55
F-R-160-054	\$/day	148.3200	366	54
F-R-160-055	\$/day	127.6200	366	47
F-R-160-056	\$/day	128.1100	366	47
F-R-160-057	\$/day	128.2900	366	47
F-R-160-058	\$/day	149.4300	366	55
F-R-160-059	\$/day	187.4000	366	69
F-R-160-060	\$/day	279.3900	366	102
F-R-160-061	\$/day	36.3400	366	13
F-R-160-062	\$/day	84.5300	366	31
F-R-160-063	\$/day	734.2800	366	269
F-R-160-064	\$/day	145.1400	366	53
F-R-160-065	\$/day	34.1500	366	12
F-R-160-066	\$/day	121.8600	0	0
F-R-160-067	\$/day	14.9200	0	0
F-R-160-068	\$/day	127.1700	366	47
F-R-160-069	\$/day	13.4300	366	5
F-R-160-070	\$/day	252.7900	366	93
F-R-160-071	\$/day	14.5900	366	5
F-R-160-072	\$/day	80.0500	366	29
F-R-160-073	\$/day	80.5000	366	29
F-R-160-098	\$/day	0.0000	366	0
F-R-160-099	\$/day	0.0000	0	0
<b>ΣP<sub>2023/24</sub>*Q<sub>2023/24</sub></b>				<b>61,764</b>