

# OtagoNet Joint Venture

## **DEFAULT PRICE QUALITY PATH ANNUAL COMPLIANCE STATEMENT**

1 April 2024 – 31 March 2025 Assessment Period

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

25 June 2025

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## **1. Introduction**

OtagoNet Joint Venture 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 OtagoNet Joint Venture from 1 April 2020.

This annual compliance statement is published in accordance with clause 11.4 of the 2020 DPP Determination, and applies to the fifth assessment period, commencing 1 April 2024 and ending 31 March 2025.

## **2. Date prepared**

This statement was prepared on 25 June 2025.

### 3. Wash-up amount

#### 3.1 Statement of compliance

As demonstrated in Table 1 in Section 3.2, and consistent with clause 8.6 of the 2020 DPP Determination OtagoNet Joint Venture has complied with the wash-up amount calculation for the fifth assessment period.

#### 3.2 Wash-up amount calculation

**Table 1**

Wash-up amount RY25		
Term	Description	Value (\$000)
Actual allowable revenue (AAR)	<i>Sum of actual net allowable revenue, actual pass-through and recoverable costs</i>	40,761
Actual revenue (AR)	<i>Sum of actual revenue from prices plus other regulated income</i>	37,565
Revenue foregone (RV)	<i>Actual net allowable revenue x (revenue reduction percentage - 20%) when revenue reduction percentage is greater than 20%, otherwise nil</i>	-
<b>Wash-up amount</b>	<i>AAR - AR - RV</i>	<b>3,196</b>

Further information supporting actual allowable revenue is included in Section 3.2.1.

Further information supporting actual revenue is included in Section 3.2.2.

Further information supporting revenue foregone is included in Section 3.2.3.

### 3.2.1 Actual allowable revenue

Table 2 below shows the actual allowable revenue for the assessment period consistent with Schedule 1.6 of the 2020 DPP Determination.

**Table 2**

Actual allowable revenue RY25		
Term	Description	Value (\$000)
Actual net allowable revenue (ANAR)	<i>Amount calculated in accordance with Schedule 1.6 of the Determination for the fifth assessment period</i>	31,328
Actual pass-through costs	<i>Sum of all pass-through costs that were incurred or approved by the Commission in the assessment period</i>	513
Actual recoverable costs	<i>Sum of all recoverable costs that were incurred or approved by the Commission in the assessment period</i>	6,656
Revenue wash-up drawn down amount	<i>The opening wash-up account balance of the previous period multiplied by WACC<sup>2</sup></i>	2,264
<b>Total actual allowable revenue (AAR)</b>	<i>Actual net allowable revenue + actual pass-through costs and actual recoverable costs + revenue wash-up drawn down amount</i>	<b>40,761</b>

Further information supporting actual net allowable revenue, actual pass-through costs, actual recoverable costs and the revenue wash-up drawn down amount is included in Appendix A.

### 3.2.2 Actual revenue

Table 3 below shows actual revenue for the assessment period consistent with clause 4.2 of the 2020 DPP Determination.

**Table 3**

Actual revenue RY25		
Term	Description	Value (\$000)
Actual revenue from prices	<i>Actual prices between 1 April 2024 and 31 March 2025 multiplied by actual quantities for the assessment period</i>	37,581
Other regulated income	<i>Other income associated with supply of electricity distribution services</i>	(16)
<b>Total actual revenue (AR)</b>	<i>Sum of actual revenue from prices plus other regulated income</i>	<b>37,565</b>

Further information supporting actual revenue from prices is included in Appendix B.

### 3.2.3 Revenue foregone

Table 4 below shows the revenue foregone consistent with clause 4.2 of the 2020 DPP Determination.

**Table 4**

Revenue foregone RY25		
Term	Description	Value (\$000)
Actual net allowable revenue (ANAR)	<i>Amount calculated in accordance with Schedule 1.6 of the Determination for the fifth assessment period</i>	31,328
Revenue reduction percentage (RRP)	<i>1 - (actual revenue from prices / forecast revenue from prices)</i>	-1.58%
<b>Revenue foregone (RV)</b>	<i>Actual net allowable revenue x (RRP- 20%) when RRP is greater than 20%, otherwise nil</i>	-

## 4. Quality standards

### 4.1 Statement of compliance with planned interruptions quality standards

OtagoNet Joint Venture is subject to a planned accumulated SAIDI limit and a planned accumulated SAIFI limit which are assessed for the DPP regulatory period as stated in clause 9.2 of the 2020 DPP Determination.

Table 5 and Table 6 below show the planned accumulated SAIDI and SAIFI limits for OtagoNet Joint Venture for the DPP regulatory period and the planned SAIDI and SAIFI assessed values for the fifth assessment period.

**Table 5**

<b>Planned interruptions quality standard - SAIDI</b>	
Sum of planned SAIDI assessed values ≤ Planned accumulated SAIDI limit	
Planned accumulated SAIDI limit	2,114.43
Cumulative Planned SAIDI assessed value for the first to fifth assessment periods	828.35
Compliance result	<b>Compliant</b>

**Table 6**

<b>Planned interruptions quality standard - SAIFI</b>	
Sum of planned SAIFI assessed values ≤ Planned accumulated SAIFI limit	
Planned accumulated SAIFI limit	9.6212
Cumulative Planned SAIFI assessed value for the first to fifth assessment periods	4.4742
Compliance result	<b>Compliant</b>

Further information supporting planned SAIDI and SAIFI assessed values is included in Section 4.1.1.

#### 4.1.1 Planned SAIDI and SAIFI assessed values

Table 7 and Table 8 below show OtagoNet Joint Venture's planned SAIDI, and SAIFI assessed values for the assessment period.

**Table 7**

Planned SAIDI assessed value RY25		
Term	Description	Value
Class B non-notified interruptions		0.72
Class B notified interruptions falling outside window		17.63
SAIDI <sub>B</sub>	<i>Sum of Class B non-notified interruptions</i>	18.35
Class B notified interruptions falling inside window		303.43
Class B intended interruptions cancelled without notice		15.60
Class B intended interruptions cancelled with notice		-
SAIDI <sub>N</sub>	<i>Sum of Class B notified interruptions</i>	319.03
Planned SAIDI assessed value	<i>SAIDI<sub>B</sub> + (SAIDI<sub>N</sub>/2)</i>	177.87

**Table 8**

Planned SAIFI assessed value RY25		
Term	Description	Value
Planned SAIFI assessed value	<i>Sum of Class B interruptions commencing within the assessment period</i>	0.9920

## 4.2 Statement of compliance with unplanned interruptions quality standards

As demonstrated in Table 9 and Table 10 below, and consistent with clause 9.7 of the 2020 DPP Determination, OtagoNet Joint Venture has complied with the unplanned interruptions quality standard.

**Table 9**

Unplanned interruptions quality standard RY25 - SAIDI		
Unplanned SAIDI assessed value ≤ Unplanned SAIDI limit		
Unplanned SAIDI limit		160.35
Unplanned SAIDI assessed value	<i>Sum of normalised SAIDI values for Class C interruptions commencing within the assessment period</i>	126.97
Compliance result		<b>Compliant</b>

**Table 10**

Unplanned interruptions quality standard RY25 - SAIFI		
Unplanned SAIFI assessed value ≤ Unplanned SAIFI limit		
Unplanned SAIFI limit		2.4172
Unplanned SAIFI assessed value	<i>Sum of normalised SAIFI values for Class C interruptions commencing within the assessment period</i>	1.5819
Compliance result		<b>Compliant</b>

Information about policies, procedures and calculations for measuring planned and unplanned interruptions during the assessment period is in Appendix C.

### 4.2.1 Major events

Table 11 below shows the SAIDI values attributed to major events which occurred during the assessment period.

No SAIFI major events occurred during the assessment period.

The SAIDI unplanned major event boundary value is 11.81

The SAIFI unplanned major event boundary value is 0.1776

Further information about major events is included in Appendix D.

**Table 11**

Unplanned SAIDI major events RY25			
Start	End	Pre-normalised unplanned SAIDI	Normalised unplanned SAIDI
28-07-2024 21:30	30-07-2024 20:30	14.88	0.33
03-10-2024 2:00	05-10-2024 1:00	16.86	1.47

04-12-2024 15:00	06-12-2024 12:00	17.39	2.64
07-12-2024 7:30	09-12-2024 6:30	18.94	1.74

Unplanned SAIFI major events RY25			
Start	End	Pre-normalised unplanned SAIFI	Normalised unplanned SAIFI
None			

### 4.3 Statement of compliance with extreme event standard

As demonstrated in Table 12 below, and consistent with clause 9.9 of the 2020 DPP Determination OtagoNet Joint Venture has complied with the extreme event standard.

**Table 12**

Extreme event standard RY25	
<i>Unplanned SAIDI value ≤ 120 minutes, and customer interruption minutes ≤ six million during any 24-hour period, excluding unplanned interruptions from major external factors</i>	
Number of extreme events	Compliance result
0	Compliant

#### 4.4 Quality Incentive Adjustment

Table 13 below shows OtagoNet Joint Venture’s quality incentive adjustment for the assessment period.

**Table 13**

Quality Incentive Adjustment RY25		
Term	Description	Value (\$000)
SAIDI planned adjustment	$(SAIDI\ planned,\ target - SAIDI\ planned,\ assessed) \times 0.5 \times IR$	(80.07)
SAIDI unplanned adjustment	$(SAIDI\ unplanned,\ target - SAIDI\ unplanned,\ assessed) \times IR$	(30.14)
Total adjustment	$SAIDI\ planned\ adjustment + SAIDI\ unplanned\ adjustment$	(110.21)
Revenue at risk	$0.02 * ANAR$	626.56
Total (penalty)/reward		(110.21)
67th percentile estimate of post-tax WACC		4.23%
Quality incentive adjustment		(119.73)

Table 14 below shows OtagoNet Joint Venture’s quality incentive adjustment inputs consistent with Schedule 4 of the 2020 DPP Determination.

**Table 14**

Quality Incentive Adjustment Inputs RY25					
Term	Units	Value	Term	Units	Value
SAIDI planned interruption cap	minutes	422.89	SAIDI unplanned interruption cap	minutes	160.35
SAIDI planned interruption collar	minutes	-	SAIDI unplanned interruption collar	minutes	0
SAIDI planned interruption target	minutes	140.96	SAIDI unplanned interruption target	minutes	120.02
Planned SAIDI assessed value	minutes	177.87	Unplanned SAIDI assessed value	minutes	126.97
Incentive rate		4,339			
Actual net allowable revenue (ANAR)	\$000	31,328			
SAIDI planned interruption target	minutes	140.96	SAIDI unplanned interruption target	minutes	120.02
Minimum of the planned SAIDI cap and assessed value	minutes	177.87	Minimum of the unplanned SAIDI cap and assessed value	minutes	126.97
Planned SAIDI subject to incentive	Minutes	(36.91)	Unplanned SAIDI subject to incentive	minutes	(6.95)
Adjustment (IR x 0.5)	\$	2,170	Adjustment (IR)	\$	4,339
SAIDI planned adjustment	\$000	(80.07)	SAIDI unplanned adjustment	\$000	(30.14)

## 5. Transactions

OtagoNet Joint Venture has not entered into any agreements with another EDB or Transpower for an amalgamation, merger, major transaction, or transfer in the assessment period.

## 6. Director’s certification

A Director’s certificate in the form set out in Schedule 7 of the 2020 DPP Determination is included as Appendix E.

## 7. Assurance report

An assurance report meeting the requirements of Schedule 8 of the 2020 DPP Determination is included in Appendix F.

## Appendix A – Pass-through and recoverable costs

### Actual Net Allowable Revenue

Table 15

Actual net allowable revenue RY25		
Term	Description	Value (\$000)
ANAR 2023/2024	Actual net allowable revenue for the year ending 2024	30,548
$(1 + \Delta CPI_{2024/25})$	Average change in Consumer Price Index	1.0255
$(1 - X)$	Annual rate of change	1
Actual net allowable revenue (ANAR)	Actual net allowable revenue for the year ending 2025	31,328

$\Delta CPI_{2025}$			
Numerator	Numerator	Denominator	
<i>CPI Jun 2024</i>	1272	<i>CPI Jun 2023</i>	1231
<i>CPI Sep,2024</i>	1280	<i>CPI Sep,2023</i>	1253
<i>CPI Dec 2024</i>	1287	<i>CPI Dec 2023</i>	1259
<i>CPI Mar,2025</i>	1299	<i>CPI Mar,2024</i>	1267
Total	5138	Total	5010
$\Delta CPI_{2025}$	2.55%		

### Pass-through costs

Table 16

Actual and forecast pass-through costs RY25			
Actual pass-through costs	Actual (\$000)	Forecast (\$000)	Forecast variance (\$000)
Rates on system fixed assets	215	192	23
Commerce Act levies	165	99	66
Electricity Authority levies	119	86	33
Utilities Disputes levies	14	12	2
<b>Total actual pass-through costs</b>	<b>513</b>	<b>389</b>	<b>124</b>

## Recoverable costs

Table 17

Actual and forecast recoverable costs RY25			
Actual recoverable costs	Actual (\$000)	Forecast (\$000)	Forecast variance (\$000)
IRIS incentive adjustment	(320)	(320)	-
Transmission charges	7,195	7,195	-
New investment contract charges	107	107	-
System operator services charges	-	-	-
Avoided transmission charges			-
Distributed generation allowance	-	-	-
Claw-back	-	-	-
Catastrophic event allowance	-	-	-
Extended reserves allowance	-	-	-
Quality incentive adjustment	(120)	(120)	-
Capex wash-up adjustment	(242)	(242)	-
Reconsideration event allowance	-	-	-
Quality standard variation engineers fee	-	-	-
Urgent project allowance	-	-	-
Fire and Emergency NZ levies	36	30	6
Innovation project allowance	-	-	-
<b>Total actual recoverable costs</b>	<b>6,656</b>	<b>6,650</b>	<b>6</b>

**Revenue wash-up drawn down amount**

**Table 18**

<b>Revenue wash-up drawn down amount RY25</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Wash-up amount 2022/23	<i>Actual revenue 2022/23 minus Actual Allowable Revenue 2022/23</i>	2,084
Voluntary undercharging amount foregone		-
Wash-up amount 2022/23 - Voluntary undercharging amount foregone		2,084
67th percentile estimate of post-tax WACC		4.23%
Revenue wash-up drawn down amount	<i>(Wash-up amount for the previous assessment period - voluntary undercharging amount foregone for the previous assessment period) x (1 + 67th percentile estimate of post-tax WACC)<sup>2</sup></i>	2,264

**Table 19**

<b>Voluntary undercharging amount foregone RY23</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Voluntary undercharging revenue floor	Voluntary undercharging revenue floor 2022/23	29,209
Forecast revenue from prices	Forecast revenue from prices 2022/23	32,420
Voluntary undercharging amount foregone	Voluntary undercharging revenue floor minus forecast revenue from prices, if the forecast revenue from prices is greater than the voluntary undercharging revenue floor then nil	0

**Table 20**

<b>Voluntary undercharging revenue floor RY23</b>		
<b>Term</b>	<b>Description</b>	<b>Value (\$000)</b>
Forecast allowable revenue	Forecast allowable revenue 2022-23	32,454
Voluntary undercharging threshold		0.9
Forecast allowable revenue x Voluntary undercharging threshold	Forecast allowable revenue 2022/23 multiplied by Voluntary undercharging threshold	29,209
Allowable notional revenue from prices for the previous period	Allowable notional revenue from prices 2021/22	33,285
1 + limit on annual percentage increase in forecast revenue from prices		1.1
forecast revenue from prices for the previous period x 1 + limit on annual percentage increase in forecast revenue from prices	Forecast revenue 2021/22 multiplied by 1 + limit on annual percentage increase in forecast revenue from prices	36,614
Voluntary undercharging revenue floor	Lesser of, forecast allowable revenue x voluntary undercharging threshold and forecast revenue from prices for the previous period x 1 + limit on annual percentage increase in forecast revenue from prices	29,209

## Appendix B – Prices and quantities

Table 21 shows the actual prices and quantities for actual revenue from prices for the fifth assessment period.

**Table 21**

Actual revenue from prices RY25					
Price Category	Unit	Unit price	Actual quantity	Actual kVA	Actual revenue (\$000)
<b>Otago Region</b>					
Residential Standard - Fixed Price	\$/kVA/yr	63.96	7050	10	4,510
Residential Low Fixed Charge - Fixed Price (Off-Peak)	\$/day	0.60	3650	1	799
Residential Low Fixed Charge - Fixed Price (Peak)	\$/day	0.60	1437	1	315
General Connection Group - Fixed Price per kVA	\$/kVA/yr	63.96	3388	18	3,957
Unmetered Loads up to 1 kVA - Fixed Charge per connection	\$/yr	252.95	81	1	21
Street Lights Fixed Price per lamp watt per annum	\$/watts/yr	0.473	141790	1	67

Variable Prices	Peak Day	Shoulder	Night	Peak	Shoulder	Night	Total Peak	Total Shoulder	Total Night
	kwh	kwh	kwh	kwh	\$/kwh	\$/kwh	\$/000	\$/000	\$/000
Residential and General	44,412,320	39,453,661	31,192,396	0.112790	0.099414	0.022800	5009	3922	711
Residential Low Fixed Charge	10,545,389	9,274,614	7,447,952	0.182500	0.171823	0.027240	1925	1594	203
<b>Total</b>									<b>23,032</b>

Price Category Individual line charge	Unit	Unit price	Actual quantity	Actual revenue (\$000)	Unit	Unit price	Actual quantity (MWh)	Actual revenue (\$000)	Actual Total revenue (\$000)
0001995995TGE58	\$/day	6407.88	1.00	2,339	\$/MWh	0.00	0.00	0.00	2,338.88
0001990133TG0E5	\$/day	1246.06	1.00	455	\$/MWh	0.00	0.00	0.00	454.81
0001990220TG58B	\$/day	1808.87	1.00	660	\$/MWh	0.00	0.00	0.00	660.24
0001090833TG6F1	\$/day	16.36	1.00	6	\$/MWh	152.42	33.08	5.04	11.01
0001120438TGE4C	\$/day	11.84	1.00	4	\$/MWh	0.00	59.13	0.00	4.32
0001230615TG210	\$/day	21.51	1.00	8	\$/MWh	17.83	235.30	4.19	12.05
0001230783TG57C	\$/day	74.90	1.00	27	\$/MWh	27.80	619.90	17.23	44.57
0001230785TG4F3	\$/day	22.97	1.00	8	\$/MWh	24.00	207.18	4.97	13.36
0001230940TG858	\$/day	104.99	1.00	38	\$/MWh	58.80	434.40	25.54	63.86
0001230990TG51A	\$/day	14.85	1.00	5	\$/MWh	108.19	57.22	6.19	11.61
0001231005TGF1B	\$/day	515.79	1.00	188	\$/MWh	41.19	3130.72	128.95	317.22
0001231172TGE88	\$/day	212.32	1.00	77	\$/MWh	24.98	1949.82	48.70	126.20
0001250655TG2ED	\$/day	6.97	1.00	3	\$/MWh	0.00	93.71	0.00	2.55
0001320515TGD9E	\$/day	10.53	1.00	4	\$/MWh	37.18	92.51	3.44	7.28
0001321124TGB82	\$/day	22.90	1.00	8	\$/MWh	0.00	52.09	0.00	8.36
0001370505TG447	\$/day	24.58	1.00	9	\$/MWh	0.00	160.46	0.00	8.97
0001370610TG0A6	\$/day	16.49	1.00	6	\$/MWh	80.56	45.38	3.66	9.68
0001401195TG9B3	\$/day	19.26	1.00	7	\$/MWh	0.00	198.34	0.00	7.03
0001450225TGAD6	\$/day	21.90	1.00	8	\$/MWh	15.94	284.44	4.53	12.53

0001450400TGCCA	\$/day	17.42	1.00	6	\$/MWh	15.03	301.33	4.53	10.89
0001450055TG58C	\$/day	28.55	1.00	10	\$/MWh	34.87	432.97	15.10	25.52
0001452050TGB83	\$/day	10.69	1.00	4	\$/MWh	13.11	207.22	2.72	6.62
0001491270TGA81	\$/day	6.25	1.00	2	\$/MWh	26.96	53.72	1.45	3.73
0001520870TGB4E	\$/day	15.54	1.00	6	\$/MWh	27.89	135.80	3.79	9.46
0001580380TGEBF	\$/day	19.21	1.00	7	\$/MWh	0.00	32.28	0.00	7.01
0001640675TGEE6	\$/day	86.08	1.00	31	\$/MWh	0.00	216.16	0.00	31.42
0001690827TGC31	\$/day	9.60	1.00	4	\$/MWh	0.00	0.05	0.00	3.50
0001700063TGC3B	\$/day	244.60	1.00	89	\$/MWh	0.00	6.01	0.00	89.28
0001710106TGF61	\$/day	52.25	1.00	19	\$/MWh	0.00	42.91	0.00	19.07
0001710108TGCFA	\$/day	99.62	1.00	36	\$/MWh	0.00	92.59	0.00	36.36
0001730075TG635	\$/day	25.93	1.00	9	\$/MWh	0.00	65.96	0.00	9.46
0001730798TGC6D	\$/day	5.32	1.00	2	\$/MWh	0.00	0.12	0.00	1.94
0001730830TG9D2	\$/day	137.29	1.00	50	\$/MWh	0.00	604.47	0.00	50.11
0001730849TG2DE	\$/day	63.37	1.00	23	\$/MWh	0.00	79.51	0.00	23.13
0001731355TG9C3	\$/day	72.76	1.00	27	\$/MWh	0.00	162.14	0.00	26.56
0001730881TG725	\$/day	40.10	1.00	15	\$/MWh	0.00	149.71	0.00	14.63
0001731161TG536	\$/day	51.96	1.00	19	\$/MWh	0.00	187.09	0.00	18.97
0001731175TGE91	\$/day	73.97	1.00	27	\$/MWh	0.00	265.81	0.00	27.00
0001731255TG0C7	\$/day	56.43	1.00	21	\$/MWh	36.45	393.14	14.33	34.92
0001760225TG74E	\$/day	28.67	1.00	10	\$/MWh	17.91	352.03	6.30	16.77
0001760343TG035	\$/day	30.64	1.00	11	\$/MWh	22.84	298.63	6.82	18.00
0001772060TG902	\$/day	74.56	1.00	27	\$/MWh	0.00	540.11	0.00	27.21
0001772165TGD49	\$/day	36.30	1.00	13	\$/MWh	0.00	70.35	0.00	13.25
0001780560TGADB	\$/day	23.02	1.00	8	\$/MWh	0.00	162.98	0.00	8.40
0001811005TG57F	\$/day	15.27	1.00	6	\$/MWh	260.20	16.45	4.28	9.85
0001820703TGB7E	\$/day	36.54	1.00	13	\$/MWh	26.58	378.52	10.06	23.40
0001830031TGBE0	\$/day	29.34	1.00	11	\$/MWh	0.00	112.80	0.00	10.71
0001830497TGE71	\$/day	36.46	1.00	13	\$/MWh	49.02	185.85	9.11	22.42
0001830541TG8B8	\$/day	1133.06	1.00	414	\$/MWh	0.00	10027.85	0.00	413.57
0001830695TG4F3	\$/day	82.97	0.13	4	\$/MWh	0.00	0.00	0.00	4.07
0001830828TGF11	\$/day	14.09	1.00	5	\$/MWh	0.00	86.33	0.00	5.14
0001830903TG594	\$/day	18.29	1.00	7	\$/MWh	0.00	60.78	0.00	6.68
0001840185TG8E5	\$/day	89.61	0.30	10	\$/MWh	0.00	0.00	0.00	9.95
0001840612TG6CA	\$/day	37.58	1.00	14	\$/MWh	20.30	446.35	9.06	22.78
0001740775TG38E	\$/day	24.39	1.00	9	\$/MWh	49.41	135.76	6.71	15.61
0001940050TG680	\$/day	41.62	1.00	15	\$/MWh	27.57	356.98	9.84	25.03
0001940060TG178	\$/day	164.86	1.00	60	\$/MWh	29.03	1467.10	42.59	102.76
0001940090TG16F	\$/day	21.35	1.00	8	\$/MWh	33.54	162.70	5.46	13.25
0001940095TGC20	\$/day	33.21	1.00	12	\$/MWh	58.31	176.01	10.26	22.38
0001940100TG78C	\$/day	85.54	1.00	31	\$/MWh	34.03	664.41	22.61	53.83
0001940110TGD21	\$/day	33.69	1.00	12	\$/MWh	42.60	280.12	11.93	24.23
0001940350TG583	\$/day	15.09	1.00	6	\$/MWh	19.55	186.99	3.66	9.17
0001940650TG086	\$/day	32.58	1.00	12	\$/MWh	39.53	208.56	8.24	20.13
0001940905TGACE	\$/day	22.66	1.00	8	\$/MWh	22.43	203.55	4.57	12.84
0001940907TGA4B	\$/day	60.82	1.00	22	\$/MWh	31.68	445.18	14.10	36.30
0001940910TGD2C	\$/day	95.02	1.00	35	\$/MWh	20.64	1328.10	27.41	62.09
0001941000TGF28	\$/day	47.47	1.00	17	\$/MWh	25.74	492.44	12.67	30.00

0001950500TG36C	\$/day	19.75	1.00	7	\$/MWh	17.24	296.41	5.11	12.32
0001950550TGB64	\$/day	26.37	1.00	10	\$/MWh	20.56	322.11	6.62	16.25
0001950800TG664	\$/day	8.78	1.00	3	\$/MWh	97.91	0.31	0.03	3.24
0001950850TGE6C	\$/day	9.61	1.00	4	\$/MWh	241.64	20.26	4.90	8.40
0001950900TGF60	\$/day	23.16	1.00	8	\$/MWh	18.64	288.00	5.37	13.82
0001951100TGECD	\$/day	52.08	1.00	19	\$/MWh	24.19	611.30	14.78	33.79
0001951200TGDCE	\$/day	23.98	1.00	9	\$/MWh	127.36	36.15	4.60	13.36
0001951320TG99F	\$/day	25.84	1.00	9	\$/MWh	0.00	59.96	0.00	9.43
0001951350TGCC2	\$/day	3.85	0.00	-	\$/MWh	937.37	0.00	0.00	-
0001951500TG2CC	\$/day	47.31	1.00	17	\$/MWh	15.32	810.20	12.41	29.68
0001951600TG1CF	\$/day	16.83	1.00	6	\$/MWh	29.06	150.49	4.37	10.51
0001951750TG0C3	\$/day	22.34	1.00	8	\$/MWh	16.80	318.55	5.35	13.50
0001951790TG72C	\$/day	42.28	1.00	15	\$/MWh	31.10	308.46	9.59	25.02
0001952100TGC2D	\$/day	99.22	1.00	36	\$/MWh	46.41	527.59	24.49	60.70
0001952400TG928	\$/day	17.91	1.00	7	\$/MWh	29.68	86.96	2.58	9.12
0001952500TG02C	\$/day	60.33	1.00	22	\$/MWh	34.38	73.84	2.54	24.56
0001952510TGA81	\$/day	6.21	1.00	2	\$/MWh	0.00	18.34	0.00	2.27
0002011523TGC1A	\$/day	65.45	1.00	24	\$/MWh	0.00	152.07	0.00	23.89
0002110863TGE7B	\$/day	34.62	1.00	13	\$/MWh	20.08	456.05	9.16	21.79
0002381026TGF20	\$/day	107.75	1.00	39	\$/MWh	35.92	665.55	23.91	63.24
0002641192TGCFF	\$/day	79.30	1.00	29	\$/MWh	0.00	214.43	0.00	28.94
0002700906TGC46	\$/day	23.22	1.00	8	\$/MWh	0.00	45.18	0.00	8.47
0002751750TG11E	\$/day	53.14	1.00	19	\$/MWh	0.00	136.10	0.00	19.40
0002751765TGBA9	\$/day	9.82	0.31	1	\$/MWh	0.00	0.00	0.00	1.11
0002751767TGB2C	\$/day	53.19	1.00	19	\$/MWh	0.00	124.71	0.00	19.41
0002751838TG3F5	\$/day	27.13	1.00	10	\$/MWh	0.00	73.56	0.00	9.90
0002751847TG976	\$/day	40.29	1.00	15	\$/MWh	0.00	160.07	0.00	14.71
0002751848TG6A8	\$/day	61.47	1.00	22	\$/MWh	0.00	179.31	0.00	22.43
0002751858TGC05	\$/day	37.49	1.00	14	\$/MWh	0.00	55.91	0.00	13.68
0002781189TG85A	\$/day	16.07	1.00	6	\$/MWh	0.00	55.87	0.00	5.87
0002841699TG73F	\$/day	15.23	1.00	6	\$/MWh	0.00	52.04	0.00	5.56
0002842004TG365	\$/day	37.21	1.00	14	\$/MWh	0.00	189.94	0.00	13.58
0002871188TGFF9	\$/day	16.73	1.00	6	\$/MWh	0.00	75.72	0.00	6.11
0003752355TG409	\$/day	115.02	1.00	42	\$/MWh	0.00	490.28	0.00	41.98
0003752365TG3F1	\$/day	20.45	1.00	7	\$/MWh	30.44	134.07	4.08	11.55
0003752367TG374	\$/day	16.70	1.00	6	\$/MWh	0.00	50.73	0.00	6.09
0003752380TG404	\$/day	36.95	1.00	13	\$/MWh	0.00	181.68	0.00	13.49
0002841739TG624	\$/day	31.61	1.00	12	\$/MWh	0.00	63.98	0.00	11.54
0001730339TG48D	\$/day	31.23	1.00	11	\$/MWh	0.00	32.07	0.00	11.40
0002742401TGC51	\$/day	10.24	1.00	4	\$/MWh	24.48	96.58	2.36	6.10
0001731183TGF09	\$/day	22.32	1.00	8	\$/MWh	0.00	38.18	0.00	8.15
0001731193TG5A4	\$/day	36.33	1.00	13	\$/MWh	0.00	60.64	0.00	13.26
0001731110TGC2E	\$/day	30.73	1.00	11	\$/MWh	0.00	99.03	0.00	11.22
0002841432TGBF3	\$/day	18.51	1.00	7	\$/MWh	0.00	66.66	0.00	6.76
0002751710TG3BB	\$/day	64.16	1.00	23	\$/MWh	0.00	42.74	0.00	23.42
0001450001TGC8E	\$/day	41.21	1.00	15	\$/MWh	13.65	741.82	10.12	25.17
0001952110TG680	\$/day	44.47	1.00	16	\$/MWh	47.81	308.03	14.73	30.96

Generators	\$/day	1121.80	1.00	409	\$/MWh	0.00	0.00	0.00	409.46
<b>Total</b>									<b>\$ 6,798.57</b>

Price Category	Unit	Unit price	Actual quantity	Actual kW	Actual revenue (\$000)
<b>Lakeland Region</b>					
<b>Residential Fixed Charges</b>					
LD15	\$/day	0.60	4524.65		990.90
LM15	\$/day	0.60	4.00		0.88
LD08	\$/day	0.32	12.88		1.52
<b>Standard Domestic Variable Charges</b>					
S24S	\$/MWh	115.60	10160.03		1174.50
S24W	\$/MWh	173.90	15443.66		2685.65
S20C	\$/MWh	70.40	21.37		1.50
S16C	\$/MWh	55.20	8380.23		462.59
S13C	\$/MWh	58.00	2.81		0.16
S11C	\$/MWh	33.40	4.85		0.16
S08C	\$/MWh	14.60	16.37		0.24
<b>General Fixed Charges</b>					
LS001	\$/day	0.78	6.00		1.71
LS002	\$/day	1.54	0.50		0.28
LS008	\$/day	0.89	57.33		18.59
LS015	\$/day	1.53	220.66		123.50
LS023	\$/day	1.94	25.81		18.23
LT028	\$/day	2.34	1.92		1.64
LT015	\$/day	1.53	12.92		7.23
LT024	\$/day	2.02	20.26		14.91
LT041	\$/day	3.40	128.78		159.59
LT069	\$/day	5.67	49.40		102.17
LT103	\$/day	8.42	15.35		47.20
LT138	\$/day	11.26	4.00		16.44
LT172	\$/day	30.32	2.82		31.16
LT207	\$/day	36.21	4.00		52.87
LT276	\$/day	45.20	10.74		177.20
<b>General Control Period Demand Charges</b>					
LS001	\$/kW/day	0.00	6.00	0.00	0.00
LS002	\$/kW/day	0.00	0.50	0.00	0.00
LS008	\$/kW/day	0.71	57.33	1.33	19.71
LS015	\$/kW/day	0.71	220.66	2.08	118.18
LS023	\$/kW/day	0.77	25.81	3.84	27.84
LT028	\$/kW/day	0.77	1.92	3.37	1.82
LT015	\$/kW/day	0.71	12.92	1.49	4.96
LT024	\$/kW/day	0.77	20.26	5.21	29.68
LT041	\$/kW/day	0.77	128.78	6.04	218.84
LT069	\$/kW/day	0.77	49.40	9.15	127.14

LT103	\$/kW/day	0.77	15.35	17.16	74.09
LT138	\$/kW/day	0.77	4.00	14.62	16.45
LT172	\$/kW/day	0.52	2.82	24.99	13.43
LT207	\$/kW/day	0.52	4.00	47.65	36.38
LT276	\$/kW/day	0.52	10.74	55.99	114.77
<b>Total</b>					<b>\$ 6,894.13</b>

Price Category Individual line charge	Unit	Unit price	Actual quantity	Actual revenue (\$000)	Unit	Unit price	Actual quantity	Actual revenue (\$000)	Actual Total revenue (\$000)
0000950315LN40D	\$/day	36.14	1.00	13.19	\$/MWh	-	-	\$ -	13.19
0000950320LNBEA	\$/day	42.84	1.00	15.64	\$/MWh	-	-	\$ -	15.64
0000950325LN3F5	\$/day	338.89	1.00	123.69	\$/MWh	-	-	\$ -	123.69
0000950330LN417	\$/day	105.34	1.00	38.45	\$/MWh	-	-	\$ -	38.45
0000950335LN958	\$/day	88.36	1.00	32.25	\$/MWh	-	-	\$ -	32.25
0000950934LNF17	\$/day	134.10	1.00	48.95	\$/MWh	-	-	\$ -	48.95
0000951901LN400	\$/day	196.86	1.00	71.85	\$/MWh	-	-	\$ -	71.85
0009530001LNF50	\$/day	74.79	0.46	12.49	\$/MWh	-	-	\$ -	12.49
0000952081LNAA3	\$/day	389.87	1.00	142.30	\$/MWh	-	-	\$ -	142.30
0000959005LN103	\$/day	119.15	1.00	43.49	\$/MWh	-	-	\$ -	43.49
0000959018LN4F5	\$/day	306.23	1.00	111.77	\$/MWh	-	-	\$ -	111.77
0009593601LND5E	\$/day	152.95	1.00	55.83	\$/MWh	-	-	\$ -	55.83
0009595701LN19A	\$/day	116.21	1.00	42.42	\$/MWh	-	-	\$ -	42.42
0000986001LN538	\$/day	114.16	1.00	41.67	\$/MWh	-	-	\$ -	41.67
0009570001LN4C5	\$/day	261.87	0.41	39.54	\$/MWh	-	-	\$ -	39.55
0009570001LN4C5	\$/day	108.91	0.58	22.87	\$/MWh	-	-	\$ -	22.88
<b>Total</b>									<b>856.40</b>

<b>Total actual revenue from prices</b>	<b>\$37,581</b>
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Table 22 shows the forecast revenue from prices for the fifth assessment period from the price setting compliance statement.

**Table 22**

<b>Forecast revenue from prices RY25</b>	<b>Value (\$000)</b>
<b>Total forecast revenue from prices</b>	<b>36,998</b>

## Appendix C – Policies and procedures for measuring planned and unplanned interruptions

OtagoNet Joint Venture contracts PowerNet to manage its network via a Network Management Agreement. PowerNet has a range of quality-controlled documentation that govern the operational processes that surround the interruption, restoration and quality of supply to its customers and by which power interruptions are managed, recorded and reported at PowerNet.

The below processes and documentation are designed to cover the relevant information relating to the recording and reporting of SAIDI and SAIFI.

- OP-SC01 System Control Faults/Defects Processes
- OP-SC02 System Control Outages Processes
- OP-SC04 System Control Reporting Processes
- OP-STD-005 Planned Outages and Operating Orders Standard
- OP-STD-0001 Network Faults, Defects and Supply Complaints Standard
- OP-STD-011 Operating Sequence Standard

Key information includes:

- Responsibilities and critical tasks for preparation, checking, actioning and altering operating sequences.
- Responsibilities for recording faults and unplanned interruptions at the system control operator level, through to reviewing and reporting of faults and interruptions.
- Methods by which notification of unplanned interruptions are identified and captured from various sources such as customers, network equipment, contractors, Transpower, the public or emergency services.
- The use of operating sequences for planned maintenance and unplanned fault restoration and how the information from these orders flow through to the Outage Reporting System in the form of duration of power interruptions and the number of customers affected.
- The method of notifying customers of planned or notified planned interruptions, including where and how this information is stored for future reference.
- The method of calculating raw SAIDI and SAIFI for both planned and unplanned interruptions.
- The process for uploading raw data extracted from the Outage Reporting System to calculate SAIDI and SAIFI assessed values, including the normalisation of unplanned major events.
- The preparation, retention and archiving of supporting records and data.

PowerNet interprets an “Interruption” (as defined in the Default Price-Quality Path Determinations) as the loss of power to a single consumer due to a single root cause. Cases where a customer receives multiple power cuts during the remediation of a single root cause are considered single interruptions for the purposes of SAIFI calculation. This interpretation maintains consistency with the approach used to calculate the quality limits under which OtagoNet Joint Venture operates.

The process for operating sequence reporting related to planned outages is described below.

When an Operating Sequence Number record is created in the ORS database application, there are a number of checks before the record can be saved. This particularly applies to an Operating Sequence that is for a ‘Planned Interruption’ that involves an ‘ICP Outage’.

### Operating Sequence - Add

Operating Sequence #

Planned / Unplanned:

Interruption Type:

Network:

Station:

POS:

PowerNet Substation:

Planned & Notified: 50% SAIDI Weighting

Regular Planned: 100% SAIDI Weighting

Must Publish Before:

**Interruption Window**

Date Off:  Time Off:  Date On:  Time On:

Alternate Date Requirement:

Alt Date Off:  Time Off:  Alt Date On:  Time On:

Interruption expected to be for full duration of the Interruption Window  
(remove the tick to enter a reduced duration)

Work Purpose:

Work Crew:

Work detail:

Project Number:

Project Manager:

All of the fields need to be populated except the 'Project Number' and 'Project Manager'.

If the 'Alternate Date Requirement' flag is set to 'Alternate Date Not Required', then the 'Alt Date Off', 'Time Off', 'Alt Date On' and 'Time On' can be left blank.

Once the 'Interruption Window' is populated with a 'Date Off' and 'Time Off' the duration (in minutes) is displayed and the 'Must Publish Before' dates and time are populated by the application for 'Planned & Notified' and 'Regular Planned' options.

The calculation of the 'Must Publish Before' date for the interruption to be considered as 'Planned and Notified' takes into account the number of available workdays before the Planned Interruption. This excludes Saturdays and Sundays, as well as any Public Holiday recorded in the ORS System. These Public Holiday Dates are published by the EA. There are notes on how the ORS System uses these 'Must Publish Before' dates later in this document.

### Operating Sequence detail - Plan

Operating Sequence #    OS #

Interruption Type:  Work Crew:  Project Number:  [Show on Web](#)

Network:  Work detail:  Project Manager:

Station:  Work Purpose:  Scenarios where something has broken, and we need to fix it.

**Interruption Window**

Date Off:  Time Off:  Date On:  On:  **360 minutes duration**

Alternate Date Requirement:

Alt Date Off:  Time Off:  Alt Date On:  On:  **360 minutes duration**

Interruption expected to be for full duration of the Interruption Window  
(remove the tick to enter a reduced duration)

POS:  Voltage:

PowerNet Substation:  Reason to use Alternate:

Planned & Notified: 50% SAIDI

Regular Planned: 100% SAIDI

Must Publish Before:

Published:

Confirmed:

Publish Type:  Complete:

[Show Street Names \(based on\)](#)

There are a number of date checks (in addition to the required fields needing to be populated), around the dates and times that are entered. If any of these checks fail, the Operating Sequence record cannot be saved. These checks include:

1. The Interruption window must be at least 60 minutes in the future
2. The Date / Time Off is not too far in the future (365 days)
3. The Date/Time On must be after the Date/Time Off
4. The minimum duration of the Interruption Window is 30 minutes
5. The maximum duration of the Interruption Window is two days (2880 mins)
6. If an 'Alternate Date Available' has been selected, the Alternate Date must be after the initial Date/Time on

This is also the option to enter an expected duration. If this option is chosen, the value entered must be less than the length of the Interruption Window.

After the Operating Sequence record is saved, the operator can add the details of network equipment to be used, and select the ICP's that will be involved. The interruption can then be published, provided it is to occur less than 56 days in the future.

Start Offset	<input type="text" value="60"/>	mins (60)
Max Future Days	<input type="text" value="365"/>	days (365)
Max Future Pub Days	<input type="text" value="56"/>	days (56)
Min Interruption Dur	<input type="text" value="30"/>	mins (30)
Max Interruption Dur	<input type="text" value="2880"/>	mins (2880)

When a Planned Interruption is Published the EIEP5 records are created by the ORS System and automatically transferred to the Registry Hub. In addition the ORS System creates the data on PowerNet Limited's Outage Web page so that customers can enquire on the Outage.

The Outage Planning Manager takes a screen capture of the PowerNet Limited Outage Web Page and saves the file as an audit record of the Web Page publishing process.

The Registry Hub delivers the EIEP5 files to the retailers (25 traders) and if successful, creates an '.AKE' file to confirm the Hub has received the file and can deliver it, and a '.CONFIRM' file that shows when the EIEP5 file is in the Traders Inbox. These '.AKE' and '.CONFIRM' files are downloaded by PowerNet Limited's IT Systems and stored as an audit record.

As part of the ORS System, the date/time the last '.CONFIRM' file is received is recorded, as well as the date/time that the PNL Outage Web Site Screen Capture file was created. The later date of these two Date/Time stamps is considered as the Operating Sequence Publish Confirmation Time for the individual Operating Sequence. This time is compared to the previously recorded 'Must Publish Before' times, to determine if the record can be treated as a 'Planned & Notified', 'Regular Planned', or 'Unplanned' Interruption.

This process is programmatically automated for Planned Interruptions provided there are 25 EIEP5 files sent, 25 EIEP5 Confirmation records received, and 1 PowerNet Limited Web Site Screen Capture records. If there are more or less than these numbers, the process is currently handled by an IT Administration person.

Operating Sequence # 107245 A Find Op Seq # (eg 314 or 83142A)

Interruption Type ICP Outage Work Crew Ranfury Field Services

Network OTPO - Otago Joint Venture Network Work detail PAL 1- Defect repairs and line maintenance ON 11kV UP133 CCT

Station PALMERSTON S/S

Interruption Window  
 Date Off Fri 23-05-2025 Time Off 9:30 Date On Fri 23-05-2025 On 15:30  
 Alternate Date Requirement Alternate Date Available  
 Alt Date Off Fri 30-05-2025 Time Off 9:30 Alt Date On Fri 30-05-2025 On 15:30

Audit file Link (eg CTCT)	File Date / Time	Trader
107245A Registry Hub Confirm File	18-04-2025 11:45	RGST
107245A PNL Web Page Confirmation	18-04-2025 11:37	

Planned & Notified 50% SAIDI Weighting Regular Planned 100% SAIDI Weighting  
 Must Publish Before Fri 9-05-2025 Thu 22-05-25 9:30

Published Fri 18-04-2025  
 Confirmed  
 Publish Type Planned and Notified Complete 23-May-25  
 Cancelled Flg: Date Cancelled:

Type	Count	First File Date	Last	Time dif. 1st to last (mins)	elapsed time before confirm (mins)
Confirms	1	8-04-2025 11:45	8-04-2025 11:45	0	
Web Screens	1	8-04-2025 11:37	8-04-2025 11:37	0	

Last file 18-04-2025 11:45

ICP Cn	OpSeq#	Chec	Date Off	Note	User	Dt Stamp	OpSeqNurr	OpSeqNurr
67	107245A		23-May-25		KSMITH	28-04-25 12:22	107245A	107245A

Alt Day Used Flg: 662  
 Alt Day Reason:  
 Alt Dt Used On:  
 1 Tarders expected for EIEP5A Notifications

Set Confirmed Refresh Close Form

In addition to these processes, PowerNet Limited Administration Reception Staff currently view each Web Site Screen Capture and manually enter the Operating Sequence Number, the Interruption Start Date and the Number of ICPs Affected. This process allows the ORS System to verify OJV have a screen dump for each Planned Interruption and that the file is named correctly (linked to the correct Operating Sequence record). This allows OJV to create a new screen capture if required, ideally before the 'Must Publish Before' 'Planned & Notified' date, so that the Interruption is entitled to the 50% reduction in SAIDI for any minutes that occur within the interruption window.

**Power Outage - Manual Validation of Website**

This process is required to ensure PowerNet have an Audit record of the Power Outage web site publication. When you enter this form only new records will be shown. Click on the '1. Link' and a saved image will open that displays the Audit record. From this image please enter:  
 1. Outage Reference Number  
 2. The Start Date of the Interruption  
 3. The number of customers affected  
 4. If you unsure of any details or something seems incorrect, enter a comment into the '5. Data Question / Comment' box

After you have entered these details you can click the right arrow to move to the next record and repeat the process

1. Link PNL Web Page Confirmation

2. Outage Reference No. 106491A

Interruption Window - Start Date 2025-03-31

No. of customers affected 33

Data Question / Comment

Form is now Read Only  
 - Close it and Open it again to continue updating

**Outage Reference No. 106491A**

Browser Time	Tue Mar 04 2025 02:40:27 GMT+1300 (New Zealand Daylight Time)
Published Time	Tue Mar 04 2025 02:40:23 GMT+1300 (New Zealand Daylight Time)
Interruption Window	Start Date Monday, 31/03/2025 Start Time 10:00 am Finish Date Monday, 31/03/2025 Finish Time 03:00 pm Expected Duration 05 Hour(s) 00 Minute(s)
Alternate Day Interruption Window	Start Date Tuesday, 01/04/2025 Start Time 10:00 am Finish Date Tuesday, 01/04/2025 Finish Time 03:00 pm Alternate Expected Duration 05 Hour(s) 00 Minute(s)
Reason for intended interruption	Network Upgrades
Outage Reference No.	106491A
No. of customers affected	33
Type	Planned and Notified
Streets affected	CLINTON HIGHWAY, FLEMING ROAD, HILLFOOT ROAD, KAIHIKU CHURCH ROAD, KAIHIKU ROAD, MILL ROAD, MOA HILL ROAD, OLD PORT ROAD

## Unplanned Outage Recording Process

Unplanned shutdowns are recorded in PowerNet's Outage Recording System (ORS) that qualify for the recording of SAIFI & SAIDI.

Once an unplanned shutdown to customers has been established either by Scada CB tripping's or customer calls of no power an Operating Sequence (O/S) number is created with a unique number.

Once an O/S has been completed and the customers power has been restored, recording of the outage in the ORS can commence.

The data is entered from the Operating Sequence into an ORS record as per the record below. Start times are recorded from either: 1st call received from a customers, Supervisory Control and Data Acquisition (Scada), trip CB time, time field operator turns off power to customers.

ORS Number: **95691** \*Op Seq#: 103577A Linked ORS #: **95691** Fault #:  Under 1 minute:  No Status:  Checked Master Record:

Date Off: 4-10-2024 Time Off: 1:59 Ok/Problem comment: Please check for correctness

Di: 5-10-24 19:57  
Upd: 12-11-24 16:41  
rCr: JSmal  
Upd: RDD

---

Network: Otago Joint Venture Network DO:

Point of Supply: Balclutha POS (Q) Pole#:

Zone Substation: Elderlee Street Zone Sub (ELD) QL # of A/R in last 12 mths:

Feeder:  1

Line CB:

ComCom Cause: Adverse Weather

Voltage: 11KV

Interruption Class: Unplanned - PowerNet

Cable/Line: Line

Sub ELD:  Feeder: 51336283

Non-TBA:  Template (Ref #):

---

Cause Note: Pole washed out Reason: Heavy rain

Year End: 2025-03-31

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**Outage Stages**

Date Off	Time Off	On	Time On	Isolation Point	Feeder	Segments	ICP's	# of ICP's	Minutes	Customer min.		
4-10	1:59	4-10	7:40	LN028	ELD 3	Part	Line Segments	View ICP's	Part	2	341	682
4-10	1:59	4-10	9:34	LN030	ELD 3	Part	Line Segments	View ICP's	Manual	3	455	1,365
5-10	12:27	5-10	13:11	LN030	ELD 3	Part	Line Segments	View ICP's	Part	3	44	132
4-10	1:59	5-10	13:45	LN052	ELD 3	All	Line Segments	View ICP's	All	95	2,146	203,870
5-10	17:03	5-10	19:16	LN052	ELD 3	All	Line Segments	View ICP's	All	95	133	12,635
4-10	1:59	5-10	13:11	LN030	ELD 3	Part	Line Segments	View ICP's	All	13	2,112	27,456
<b>211</b>										<b>246,140</b>		

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Lock: Y # of Unique ICP's: 113 Difference: 98 # of ICP's: 211 Customer min.: 246,140


This is number of unique ICP's (each ICP is only counted once for the Outage) P N This is that total number of ICP's from each Stage, added up.

Staged restorations to customers power supply are recorded within the same ORS recorded as above.

Staged restoration times are recorded from Scada or times that are relayed to System Control Operator from a Field Operator.

If another Feeder or Substation is affected, then we may create a separate record for this and link it to the original record.

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## Appendix D – SAIDI and SAIFI major events

The table below shows the normalisation of the SAIDI major events that took place during the assessment period, consistent with Schedule 3.2 of the 2020 DPP Determination.

**Table 23**

Normalisation of unplanned SAIDI major events RY25					
SAIDI unplanned boundary value					11.81
1/48th of the SAIDI unplanned boundary value	Half hour commencing	Sum SAIDI (half-hour)	Sum SAIDI (previous 24-hour)	Max SAIDI (rolling 24-hour)	SAIDI assessed value
0.2460	2024-07-28 21:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-28 22:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-28 22:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-28 23:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-28 23:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 0:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 0:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 1:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 1:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 2:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 2:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 3:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 3:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 4:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 4:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 5:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 5:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 6:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 6:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 7:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 7:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 8:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 8:30	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 9:00	0.00000000	0.017	14.869	0.000
0.2460	2024-07-29 9:30	0.00000000	0.000	14.882	0.000
0.2460	2024-07-29 10:00	0.00000000	0.000	14.882	0.000
0.2460	2024-07-29 10:30	0.00000000	0.000	14.882	0.000
0.2460	2024-07-29 11:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 11:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 12:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 12:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 13:00	0.00000000	0.000	14.885	0.000

0.2460	2024-07-29 13:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 14:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 14:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 15:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 15:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 16:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 16:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 17:00	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 17:30	0.00000000	0.000	14.885	0.000
0.2460	2024-07-29 18:00	0.06714022	0.067	14.885	0.067
0.2460	2024-07-29 18:30	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 19:00	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 19:30	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 20:00	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 20:30	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 21:00	0.00000000	0.067	14.885	0.000
0.2460	2024-07-29 21:30	14.80193636	14.869	14.885	0.246
0.2460	2024-07-29 22:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-29 22:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-29 23:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-29 23:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 0:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 0:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 1:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 1:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 2:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 2:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 3:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 3:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 4:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 4:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 5:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 5:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 6:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 6:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 7:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 7:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 8:00	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 8:30	0.00000000	14.869	14.885	0.000
0.2460	2024-07-30 9:00	0.01245500	14.882	14.885	0.012
0.2460	2024-07-30 9:30	0.00000000	14.882	14.885	0.000
0.2460	2024-07-30 10:00	0.00000000	14.882	14.885	0.000

0.2460	2024-07-30 10:30	0.00340566	14.885	14.885	0.003
0.2460	2024-07-30 11:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 11:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 12:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 12:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 13:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 13:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 14:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 14:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 15:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 15:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 16:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 16:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 17:00	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 17:30	0.00000000	14.885	14.885	0.000
0.2460	2024-07-30 18:00	0.00000000	14.818	14.818	0.000
0.2460	2024-07-30 18:30	0.00000000	14.818	14.818	0.000
0.2460	2024-07-30 19:00	0.00000000	14.818	14.818	0.000
0.2460	2024-07-30 19:30	0.00000000	14.818	14.818	0.000
0.2460	2024-07-30 20:00	0.00000000	14.818	14.818	0.000
0.2460	2024-07-30 20:30	0.00000000	14.818	14.818	0.000

Outage Identifiers (ORS)	94992, 94993, 95006, 94989, 94998
(i) Cause	High winds coupled with degraded equipment
(ii) Start date	2024-07-28
(iii) Start time	21:30
(iv) End date	2024-07-30
(v) End time	20:30
(vi) SAIDI before	14.88
(vii) SAIDI normalised	0.33
(viii) Location	Waihola, Taieri Mouth, Outram, Milton, Kaitangata, Owaka
(ix) Equipment	Conductor Overhead Line 33kV close to Wailhola.
(x) Response	Line patrols, isolate relevant sections. Repair and restore power.
(xi) Mitigating factors	Damage caused by high winds acting on old conductor.
(xii) Proposed mitigation	Project planned for RY26 to replace old Silmalec conductor (1955) between Milburn - Waihola Helium AAAC.

Normalisation of unplanned SAIDI major events RY25					
SAIDI unplanned boundary value					11.81
1/48th of the SAIDI unplanned boundary value	Half hour commencing	Sum SAIDI (half-hour)	Sum SAIDI (previous 24-hour)	Max SAIDI (rolling 24-hour)	SAIDI assessed value
0.2460	2024-10-03 2:00	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 2:30	0.00000000	0.655	15.653	0.000

0.2460	2024-10-03 3:00	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 3:30	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 4:00	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 4:30	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 5:00	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 5:30	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 6:00	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 6:30	0.00000000	0.655	15.653	0.000
0.2460	2024-10-03 7:00	0.00000000	0.655	15.692	0.000
0.2460	2024-10-03 7:30	0.00000000	0.655	15.692	0.000
0.2460	2024-10-03 8:00	0.00000000	0.655	15.692	0.000
0.2460	2024-10-03 8:30	0.00000000	0.655	15.692	0.000
0.2460	2024-10-03 9:00	0.00000000	0.655	15.692	0.000
0.2460	2024-10-03 9:30	1.33545126	1.991	15.692	0.246
0.2460	2024-10-03 10:00	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 10:30	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 11:00	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 11:30	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 12:00	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 12:30	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 13:00	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 13:30	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 14:00	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 14:30	0.00000000	1.991	15.692	0.000
0.2460	2024-10-03 15:00	0.13285199	2.124	15.692	0.133
0.2460	2024-10-03 15:30	2.95152828	5.075	15.692	0.246
0.2460	2024-10-03 16:00	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 16:30	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 17:00	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 17:30	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 18:00	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 18:30	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 19:00	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 19:30	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 20:00	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 20:30	0.00000000	5.075	15.692	0.000
0.2460	2024-10-03 21:00	0.00000000	4.420	15.692	0.000
0.2460	2024-10-03 21:30	0.00000000	4.420	15.692	0.000
0.2460	2024-10-03 22:00	0.00000000	4.420	15.692	0.000
0.2460	2024-10-03 22:30	0.00000000	4.420	15.692	0.000
0.2460	2024-10-03 23:00	0.00000000	4.420	15.692	0.000
0.2460	2024-10-03 23:30	0.00000000	4.420	15.692	0.000

0.2460	2024-10-04 0:00	0.00000000	4.420	15.692	0.000
0.2460	2024-10-04 0:30	0.00000000	4.420	15.692	0.000
0.2460	2024-10-04 1:00	0.00000000	4.420	15.692	0.000
0.2460	2024-10-04 1:30	0.00000000	4.420	15.692	0.000
0.2460	2024-10-04 2:00	11.23335740	15.653	15.692	0.246
0.2460	2024-10-04 2:30	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 3:00	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 3:30	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 4:00	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 4:30	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 5:00	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 5:30	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 6:00	0.00000000	15.653	15.692	0.000
0.2460	2024-10-04 6:30	0.03841155	15.692	15.692	0.038
0.2460	2024-10-04 7:00	0.00000000	15.692	15.692	0.000
0.2460	2024-10-04 7:30	0.00000000	15.692	15.692	0.000
0.2460	2024-10-04 8:00	0.00000000	15.692	15.692	0.000
0.2460	2024-10-04 8:30	0.00000000	15.692	15.692	0.000
0.2460	2024-10-04 9:00	0.00000000	15.692	15.692	0.000
0.2460	2024-10-04 9:30	0.00000000	14.356	14.702	0.000
0.2460	2024-10-04 10:00	0.00000000	14.356	14.702	0.000
0.2460	2024-10-04 10:30	0.00000000	14.356	14.702	0.000
0.2460	2024-10-04 11:00	0.00000000	14.356	14.702	0.000
0.2460	2024-10-04 11:30	0.28158845	14.638	14.702	0.246
0.2460	2024-10-04 12:00	0.00000000	14.638	14.702	0.000
0.2460	2024-10-04 12:30	0.00000000	14.638	14.702	0.000
0.2460	2024-10-04 13:00	0.00000000	14.638	14.702	0.000
0.2460	2024-10-04 13:30	0.06435620	14.702	14.702	0.064
0.2460	2024-10-04 14:00	0.00000000	14.702	14.702	0.000
0.2460	2024-10-04 14:30	0.00000000	14.702	14.702	0.000
0.2460	2024-10-04 15:00	0.00000000	14.569	14.569	0.000
0.2460	2024-10-04 15:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 16:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 16:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 17:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 17:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 18:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 18:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 19:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 19:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 20:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 20:30	0.00000000	11.618	12.439	0.000

0.2460	2024-10-04 21:00	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 21:30	0.00000000	11.618	12.439	0.000
0.2460	2024-10-04 22:00	0.82132371	12.439	12.439	0.246
0.2460	2024-10-04 22:30	0.00000000	12.439	12.439	0.000
0.2460	2024-10-04 23:00	0.00000000	12.439	12.439	0.000
0.2460	2024-10-04 23:30	0.00000000	12.439	12.439	0.000
0.2460	2024-10-05 0:00	0.00000000	12.439	12.439	0.000
0.2460	2024-10-05 0:30	0.00000000	12.439	12.439	0.000
0.2460	2024-10-05 1:00	0.00000000	12.439	12.439	0.000

Outage Identifiers (ORS)	95691, 95673, 95671, 95687, 95682, 95674, 95685, 95678
(i) Cause	Adverse weather (heavy rain), wildlife and vegetation.
(ii) Start date	2024-10-03
(iii) Start time	02:00
(iv) End date	2024-10-05
(v) End time	01:00
(vi) SAIDI before	16.86
(vii) SAIDI normalised	1.47
(viii) Location	Milton, Toko Mouth, Waiholā, Balclutha, Outram, Taieri Mouth
(ix) Equipment	Overhead 11kV Lines and Poles.
(x) Response	Crews prepared after forecasts and warnings.
(xi) Mitigating factors	Heavy Rain Warning Red Alert (State of Emergency Clutha District)
(xii) Proposed mitigation	Awareness of weather warnings and preparedness of crews and systems. Identification of hazard and fall zone trees.

Normalisation of unplanned SAIDI major events RY25					
SAIDI unplanned boundary value					11.81
1/48th of the SAIDI unplanned boundary value	Half hour commencing	Sum SAIDI (half-hour)	Sum SAIDI (previous 24-hour)	Max SAIDI (rolling 24-hour)	SAIDI assessed value
0.2460	2024-12-04 15:00	0.00000000	0.000	13.744	0.000
0.2460	2024-12-04 15:30	0.00000000	0.000	13.744	0.000
0.2460	2024-12-04 16:00	0.00000000	0.000	13.744	0.000
0.2460	2024-12-04 16:30	0.00000000	0.000	15.253	0.000
0.2460	2024-12-04 17:00	0.94126650	0.941	15.253	0.246
0.2460	2024-12-04 17:30	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 18:00	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 18:30	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 19:00	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 19:30	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 20:00	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 20:30	0.00000000	0.941	15.253	0.000
0.2460	2024-12-04 21:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-04 21:30	0.00000000	0.941	16.167	0.000

0.2460	2024-12-04 22:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-04 22:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-04 23:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-04 23:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 0:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 0:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 1:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 1:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 2:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 2:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 3:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 3:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 4:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 4:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 5:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 5:30	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 6:00	0.00000000	0.941	16.167	0.000
0.2460	2024-12-05 6:30	0.00000000	0.941	16.217	0.000
0.2460	2024-12-05 7:00	0.00000000	0.941	16.217	0.000
0.2460	2024-12-05 7:30	0.00000000	0.941	16.217	0.000
0.2460	2024-12-05 8:00	0.00000000	0.941	16.217	0.000
0.2460	2024-12-05 8:30	0.00000000	0.941	16.217	0.000
0.2460	2024-12-05 9:00	0.68107901	1.622	16.217	0.246
0.2460	2024-12-05 9:30	0.00000000	1.622	16.217	0.000
0.2460	2024-12-05 10:00	0.54323704	2.166	16.217	0.246
0.2460	2024-12-05 10:30	0.00000000	2.166	16.217	0.000
0.2460	2024-12-05 11:00	0.10574900	2.271	16.217	0.106
0.2460	2024-12-05 11:30	0.00000000	2.271	16.217	0.000
0.2460	2024-12-05 12:00	0.00000000	2.271	16.217	0.000
0.2460	2024-12-05 12:30	4.34436579	6.616	16.217	0.246
0.2460	2024-12-05 13:00	1.35699254	7.973	16.217	0.246
0.2460	2024-12-05 13:30	0.03223646	8.005	16.217	0.032
0.2460	2024-12-05 14:00	2.23502965	10.240	16.217	0.246
0.2460	2024-12-05 14:30	3.50420892	13.744	16.217	0.246
0.2460	2024-12-05 15:00	0.00000000	13.744	16.217	0.000
0.2460	2024-12-05 15:30	0.00000000	13.744	16.217	0.000
0.2460	2024-12-05 16:00	1.50903960	15.253	16.217	0.246
0.2460	2024-12-05 16:30	0.00000000	15.253	16.217	0.000
0.2460	2024-12-05 17:00	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 17:30	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 18:00	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 18:30	0.00000000	14.312	16.217	0.000

0.2460	2024-12-05 19:00	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 19:30	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 20:00	0.00000000	14.312	16.217	0.000
0.2460	2024-12-05 20:30	1.85498374	16.167	16.217	0.246
0.2460	2024-12-05 21:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-05 21:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-05 22:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-05 22:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-05 23:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-05 23:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 0:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 0:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 1:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 1:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 2:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 2:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 3:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 3:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 4:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 4:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 5:00	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 5:30	0.00000000	16.167	16.217	0.000
0.2460	2024-12-06 6:00	0.04993304	16.217	16.217	0.050
0.2460	2024-12-06 6:30	0.00000000	16.217	16.217	0.000
0.2460	2024-12-06 7:00	0.00000000	16.217	16.217	0.000
0.2460	2024-12-06 7:30	0.00000000	16.217	16.217	0.000
0.2460	2024-12-06 8:00	0.00000000	16.217	16.217	0.000
0.2460	2024-12-06 8:30	0.00000000	16.217	16.217	0.000
0.2460	2024-12-06 9:00	0.09106562	15.627	15.627	0.091
0.2460	2024-12-06 9:30	0.00000000	15.627	15.627	0.000
0.2460	2024-12-06 10:00	0.14248135	15.226	15.226	0.142
0.2460	2024-12-06 10:30	0.00000000	15.226	15.226	0.000
0.2460	2024-12-06 11:00	0.00000000	15.120	15.120	0.000
0.2460	2024-12-06 11:30	0.00000000	15.120	15.120	0.000
0.2460	2024-12-06 12:00	0.00000000	15.120	15.120	0.000

Outage Identifiers 96438, 96437, 96337, 96331, 96334, 96281, 96436, 96335, 96330, 96319, 96332, 96287, 96338, 96295, 96310, 96306, 96297, 96296, 96482

(i) Cause Adverse Weather (High Winds), Vegetation

(ii) Start date 2024-12-04

(iii) Start time 15:00

(iv) End date 2024-12-06

(v) End time 12:00

(vi) SAIDI before 17.39

- (vii) SAIDI normalised 2.64
- (viii) Location Owaka, Balclutha, Waitati, Palmerston, Clinton, Port Chalmers, Waikouaiti, Kaitangata, Middlemarch, Dunedin, Ranfurly, Naseby
- (ix) Equipment 33kV Overhead Lines  
11kV Overhead Lines
- (x) Response Fault finding, isolation, line repair and restoration.
- (xi) Mitigating factors Sustained high winds
- (xii) Proposed mitigation Improved line design. Continue to identify and assess trees in hazard and fall zones and work with tree owners.

Normalisation of unplanned SAIDI major events RY25					
SAIDI unplanned boundary value					11.81
1/48th of the SAIDI unplanned boundary value	Half hour commencing	Sum SAIDI (half-hour)	Sum SAIDI (previous 24-hour)	Max SAIDI (rolling 24-hour)	SAIDI assessed value
0.2460	2024-12-07 7:30	0.00000000	0.676	11.998	0.000
0.2460	2024-12-07 8:00	0.00000000	0.676	11.998	0.000
0.2460	2024-12-07 8:30	0.00000000	0.676	11.998	0.000
0.2460	2024-12-07 9:00	0.00000000	0.585	11.998	0.000
0.2460	2024-12-07 9:30	0.00000000	0.585	11.998	0.000
0.2460	2024-12-07 10:00	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 10:30	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 11:00	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 11:30	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 12:00	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 12:30	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 13:00	0.00000000	0.443	11.998	0.000
0.2460	2024-12-07 13:30	0.00000000	0.443	16.231	0.000
0.2460	2024-12-07 14:00	0.00000000	0.374	16.231	0.000
0.2460	2024-12-07 14:30	0.00000000	0.374	16.231	0.000
0.2460	2024-12-07 15:00	0.00000000	0.374	16.231	0.000
0.2460	2024-12-07 15:30	0.40176009	0.775	16.231	0.246
0.2460	2024-12-07 16:00	0.00000000	0.775	17.179	0.000
0.2460	2024-12-07 16:30	0.00000000	0.775	17.179	0.000
0.2460	2024-12-07 17:00	0.00000000	0.775	17.179	0.000
0.2460	2024-12-07 17:30	0.00000000	0.775	18.194	0.000
0.2460	2024-12-07 18:00	0.00000000	0.775	18.194	0.000
0.2460	2024-12-07 18:30	0.00000000	0.775	18.194	0.000
0.2460	2024-12-07 19:00	0.00000000	0.775	18.194	0.000
0.2460	2024-12-07 19:30	0.41438684	1.190	18.194	0.246
0.2460	2024-12-07 20:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 20:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 21:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 21:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 22:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 22:30	0.00000000	1.190	18.194	0.000

0.2460	2024-12-07 23:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-07 23:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 0:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 0:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 1:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 1:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 2:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 2:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 3:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 3:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 4:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 4:30	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 5:00	0.00000000	1.190	18.194	0.000
0.2460	2024-12-08 5:30	0.00000000	0.816	18.194	0.000
0.2460	2024-12-08 6:00	0.00000000	0.816	18.194	0.000
0.2460	2024-12-08 6:30	0.00000000	0.816	18.194	0.000
0.2460	2024-12-08 7:00	11.18213124	11.998	18.194	0.246
0.2460	2024-12-08 7:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 8:00	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 8:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 9:00	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 9:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 10:00	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 10:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 11:00	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 11:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 12:00	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 12:30	0.00000000	11.998	18.194	0.000
0.2460	2024-12-08 13:00	4.23311651	16.231	18.194	0.246
0.2460	2024-12-08 13:30	0.00000000	16.231	18.194	0.000
0.2460	2024-12-08 14:00	0.00000000	16.231	18.194	0.000
0.2460	2024-12-08 14:30	0.00000000	16.231	18.194	0.000
0.2460	2024-12-08 15:00	0.00000000	16.231	18.194	0.000
0.2460	2024-12-08 15:30	1.34914865	17.179	18.194	0.246
0.2460	2024-12-08 16:00	0.00000000	17.179	18.194	0.000
0.2460	2024-12-08 16:30	0.00000000	17.179	18.194	0.000
0.2460	2024-12-08 17:00	1.01487469	18.194	18.194	0.246
0.2460	2024-12-08 17:30	0.00000000	18.194	18.194	0.000
0.2460	2024-12-08 18:00	0.00000000	18.194	18.194	0.000
0.2460	2024-12-08 18:30	0.00000000	18.194	18.194	0.000
0.2460	2024-12-08 19:00	0.00000000	18.194	18.194	0.000
0.2460	2024-12-08 19:30	0.00000000	17.779	18.124	0.000
0.2460	2024-12-08 20:00	0.00000000	17.779	18.124	0.000
0.2460	2024-12-08 20:30	0.00000000	17.779	18.124	0.000

0.2460	2024-12-08 21:00	0.00000000	17.779	18.124	0.000
0.2460	2024-12-08 21:30	0.01377463	17.793	18.124	0.014
0.2460	2024-12-08 22:00	0.00000000	17.793	18.124	0.000
0.2460	2024-12-08 22:30	0.33145208	18.124	18.124	0.246
0.2460	2024-12-08 23:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-08 23:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 0:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 0:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 1:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 1:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 2:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 2:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 3:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 3:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 4:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 4:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 5:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 5:30	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 6:00	0.00000000	18.124	18.124	0.000
0.2460	2024-12-09 6:30	0.00000000	18.124	18.124	0.000

Outage Identifiers	96386, 96344, 96385, 96355, 96343, 96340, 96339
(i) Cause	Adverse weather (high winds), tree contact
(ii) Start date	2024-12-07
(iii) Start time	07:30
(iv) End date	2024-12-09
(v) End time	06:30
(vi) SAIDI before	18.94
(vii) SAIDI normalised	1.74
(viii) Location	Owaka, Balclutha, Middlemarch, Outram, Clinton, Port Chalmers, Waiholā, Milton, Waitati, Kaitangata
(ix) Equipment	33kV Overhead Lines 11kV Overhead Lines
(x) Response	Fault finding, isolation, line repair and restoration.
(xi) Mitigating factors	Sustained high winds
(xii) Proposed mitigation	Improved line design. Continue to identify and assess trees in hazard and fall zones and work with tree owners.

## Appendix E - Director Certification

### Director Certification (Clause 11.5(d))

I, Peter William Moynihan, being a director of a company, which is a party to the OtagoNet Joint Venture certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached annual compliance statement of OtagoNet Joint Venture, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2020* has been prepared in accordance with all relevant requirements.

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke, positioned above a solid horizontal line.

**Peter William Moynihan**

25 June 2025



## Independent Assurance Report

To the Governing Committee of OtagoNet Joint Venture

### Assurance report pursuant to Electricity Distribution Services Default Price-Quality Path Determination 2020

#### Opinion

We have undertaken a reasonable assurance engagement in respect of the compliance of OtagoNet Joint Venture (the "Joint Venture") with the Electricity Distribution Services Default Price-Quality Path Determination 2020 consolidated 20 May 2020 (the "Determination") in preparing the Annual Compliance Statement for the assessment period ended 31 March 2025.

In our opinion, in all material respects:

- as far as appears from an examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from the Joint Venture's accounting and other records, and has been sourced, where appropriate, from its financial and non-financial systems; and
- the Joint Venture has complied with clauses 11.5 and 11.6 of the Determination in preparing the Annual Compliance Statement for the assessment period ended 31 March 2025.

#### Basis for Opinion

We have conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): *Assurance Engagements Other Than Audits or Reviews of historical Financial Information* and the Standard on Assurance Engagements (SAE) 3100 (Revised) *Compliance Engagements* ("SAE 3100 (Revised)"), issued by the New Zealand Auditing and Assurance Standards Board.

We believe the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### Governing Committee's Responsibilities

The Governing Committee is responsible on behalf of the Joint Venture for:

- the preparation of the Annual Compliance Statement under clause 11.4 and in accordance with the requirements in clauses 11.5 and 11.6 of the Determination; and
- the identification of risks that may threaten compliance with the Determination and for such internal controls that would mitigate those risks and monitoring the Joint Venture's ongoing compliance.

#### Our Independence and Quality Management

We have complied with the Professional and Ethical Standard 1 *International Code of Ethics for Assurance Practitioners (including International Independence Standards) (New Zealand)* or other professional requirements, or requirements in law or regulation, that are at least as demanding, which include independence and other requirements founded on the fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

We apply Professional and Ethical Standard 3 *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements*, which requires our firm to design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.



We are independent of the OtagoNet Joint Venture. Our firm carries out other assurance services for the Joint Venture in the areas of regulatory compliance engagements. The provision of these other services has not impaired our independence.

#### **Assurance Practitioner's responsibilities**

Our responsibility is to perform a reasonable assurance engagement as required by clause 11.5(e) and schedules 8(1)(b)(vi) and 8(1)(c) of the Determination and report our opinion to you as to whether, in all material respects:

- as far as appears from our examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from the Joint Venture's accounting and other records, sourced from its financial and non-financial systems; and
- the Annual Compliance Statement, for the assessment period ended 31 March 2025, has been prepared in accordance with the requirements in clauses 11.5 and 11.6 of the Determination.

SAE 3100 (Revised) requires that we plan and perform our procedures to obtain reasonable assurance about whether the Joint Venture has complied, in all material respects, with the Determination, in preparing the Annual Compliance Statement for the assessment period ended 31 March 2025. In relation to the wash-up amount set out in clause 8.6 of the Determination, our procedures included recalculation of the wash-up amount in accordance with schedule 1.6 of the Determination and assessing it against the amounts and disclosures contained on pages 4 to 6 and 13 to 20 of the Annual Compliance Statement.

In relation to the quality standards set out in clause 9 of the Determination, our procedures included examination, on a test basis, of evidence relevant to the values and disclosures contained on pages 7 to 12 and 21 to 36 of the Annual Compliance Statement.

An assurance engagement to report on the Joint Venture's compliance with the Determination involves performing procedures to obtain evidence about the compliance activity and controls implemented. The procedures selected depend on our judgement, including the identification and assessment of risks of material non-compliance.

#### **Inherent Limitations**

Because of the inherent limitations of an assurance engagement, together with the internal control structure, it is possible that fraud, error or non-compliance may occur and not be detected. A reasonable assurance engagement throughout the specified period does not provide assurance on whether compliance with the Determination will continue in the future.

#### **Use of Report**

This report has been prepared for the Governing Committee in accordance with 11.5(e) of the Determination and is provided solely to assist you in establishing that compliance requirements have been met.

Our report should not be used for any other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility for any reliance on this report to anyone other than the Governing Committee of the Joint Venture, as a body, or for any purpose other than that for which it was prepared.

A handwritten signature in black ink that reads 'PricewaterhouseCoopers' in a cursive, stylized script.

PricewaterhouseCoopers  
26 June 2025

Christchurch, New Zealand