Firstlightnetwork®

Default Price-Quality Path Annual Compliance Statement

Assessment Period

1 April 2023 – 31 March 2024

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1. Introduction

Firstlight Network (previously known as Eastland Network) 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 Eastland Network 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 fourth assessment period, commencing 1 April 2023 and ending 31 March 2024.

2. Date prepared

This statement was prepared on 29 August 2024.

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 Firstlight Network has complied with the wash-up amount calculation for the fourth assessment period.

3.2 Wash-up amount calculation

Table 1

Wash-up amount RY24		
Term	Description	Value ($000)
Actual allowable revenue (AAR)	*Sum of actual net allowable revenue, actual pass-through and recoverable costs, pass-through balance and revenue wash-up draw down amount*	32,953
Actual revenue (AR)	*Sum of actual revenue from prices plus other regulated income*	29,986
Revenue foregone (RV)	*Actual net allowable revenue x (revenue reduction percentage - 20%) when revenue reduction percentage is greater than 20%, otherwise nil*	-
Wash-up amount	*AAR - AR - RV*	**2,968**

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 Wash-up amount calculation

Table 2 below shows the actual allowable revenue for the assessment period consistent with Schedule 1.6 of the 2020 DPP Determination. Below is also a CPI adjustment calculation used to calculate the Actual net allowable revenue.

Table 2

Actual allowable revenue RY24		
Term	Description	Value ($000)
Actual net allowable revenue previous ($ANAR_{previous}$)	*$ANAR_{previous}$ is the actual net allowable revenue of the previous assessment period*	27,097
ΔCPI_t	*is the dervied change in CPI to be applied for the assessment period*	5.08%
X	*X Factor is the annual rate of change specified in Schedule 1.2 of the Determination*	0.00%
Actual net allowable revenue (ANAR)	*ANAR for the fourth assessment period is the amount calculated using the formula ANARprevious * (1 + ΔCPIt) * (1 - X)*	28,473
Actual pass-through costs	*Sum of all pass-through costs that were incurred or approved by the Commission in the assessment period*	441
Actual recoverable costs	*Sum of all recoverable costs that were incurred or approved by the Commission in the assessment period*	4,012
Opening wash-up account balance	*For the third to fifth assessment period of the DPP regulatory period, the closing wash-up account balance of the previous assessment period*	28
Total actual allowable revenue (AAR)	*Actual net allowable revenue + actual pass-through costs and actual recoverable costs – (pass-through balance x (1 + 67th* percentile estimate of post-tax WACC))	**32,953**

ΔCPI_{2024}			
Denominator		Numerator	
$CPI_{Jun2022}$	1161	$CPI_{Jun2023}$	1231
$CPI_{Sep2022}$	1186	$CPI_{Sep2023}$	1253
$CPI_{Dec2022}$	1203	$CPI_{Dec2023}$	1259
$CPI_{Mar2023}$	1218	$CPI_{Mar2024}$	1267
ΔCPI_{2024}	**5.08%**		

Further information supporting actual pass-through costs, actual recoverable costs and the pass-through balance 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 RY24		
Term	Description	Value ($000)
Actual revenue from prices	*Actual prices between 1 April 2023 and 31 March 2024 multiplied by actual quantities for the assessment period*	29,690
Other regulated income	*Other income associated with supply of electricity distribution services*	295
Total actual revenue (AR)	*Sum of actual revenue from prices plus other regulated income*	**29,986**

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 RY24		
Term	Description	Value ($000)
Actual net allowable revenue (ANAR)	*Amount specified as forecast net allowable revenue for the third assessment period*	28,473
Revenue reduction percentage (RRP)	*1 - (actual revenue from prices / forecast revenue from prices)*	0.79%
Revenue foregone (RV)	*Actual net allowable revenue x (RRP- 20%) when RRP is greater than 20%, otherwise nil*	**-**

4. Quality standards

4.1 Statement of compliance with planned interruptions quality standards

Firstlight Network 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 Firstlight Network for the DPP regulatory period and the planned SAIDI and SAIFI assessed values for the Fourth assessment period.

Table 5

Planned interruptions quality standard - SAIDI	
Sum of planned SAIDI assessed values ≤ Planned accumulated SAIDI limit	
Planned accumulated SAIDI limit	1,290.68
Sum of planned SAIDI assessed value to the fourth assessment period	393.16
Compliance result	**Compliant**

Table 6

Planned interruptions quality standard - SAIFI	
Sum of planned SAIFI assessed values ≤ Planned accumulated SAIFI limit	
Planned accumulated SAIFI limit	7.4745
Sum of planned SAIFI assessed value to the fourth assessment period	2.5176
Compliance result	**Compliant**

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 Firstlight Network's planned SAIDI and SAIFI assessed values for the assessment period.

Table 7

Planned SAIDI assessed value RY24		
Term	Description	Value
Class B non-notified interruptions		24.98
Class B notified interruptions falling outside window		3.33
$SAIDI_B$	*Sum of Class B non-notified interruptions*	28.30
Class B notified interruptions falling inside window		99.01
Class B intended interruptions cancelled without notice		24.31
Class B intended interruptions cancelled with notice		-
$SAIDI_N$	*Sum of Class B notified interruptions*	123.32
Planned SAIDI assessed value	$SAIDI_B + (SAIDI_N / 2)$	89.96

Table 8

Planned SAIFI assessed value RY24		
Term	Description	Value
Planned SAIFI assessed value	*Sum of Class B interruptions commencing within the assessment period*	0.5111

4.2 Statement of compliance with unplanned interruptions quality standards

As demonstrated in Table 9 below, and consistent with clause 9.7 of the 2020 DPP Determination, Firstlight Network has not complied with the unplanned interruptions SAIDI quality standard, but as shown in Table 10, complied with the unplanned interruptions SAIFI quality standard.

This statement is accompanied by Unplanned Interruption Report explaining the non-compliance with Unplanned SAIDI limit as per reporting requirements specified in clause 12.4 of the DPP Determination.

Table 9

Unplanned interruptions quality standard RY24 - SAIDI		
Unplanned SAIDI assessed value ≤ Unplanned SAIDI limit		
Unplanned SAIDI limit		219.46
Unplanned SAIDI assessed value	*Sum of normalised SAIDI values for Class C interruptions commencing within the assessment period*	314.65
Compliance result		**Not Compliant**

Table 10

Unplanned interruptions quality standard RY24 - SAIFI		
Unplanned SAIFI assessed value ≤ Unplanned SAIFI limit		
Unplanned SAIFI limit		3.1525
Unplanned SAIFI assessed value	*Sum of normalised SAIFI values for Class C interruptions commencing within the assessment period*	2.7948
Compliance result		**Compliant**

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 and Table 12 below show the SAIDI and SAIFI values attributed to major events which occurred during the assessment period.

Further information about major events is included in Appendix D.

Table 11

Unplanned SAIDI major events RY24			
Start	End	Pre-normalised unplanned SAIDI	Normalised unplanned SAIDI
21/06/2023 16:00	25/06/2023 9:00	80.3991	6.5476
26/06/2023 1:00	27/06/2023 15:30	15.8155	2.6955
1/09/2023 3:30	3/09/2023 2:30	13.3983	0.3197
25/11/2023 1:00	27/11/2023 0:00	27.5635	3.1523
1/02/2024 22:00	3/02/2024 23:00	36.2406	4.4752

Table 12

Unplanned SAIFI major events RY24			
Start	End	Pre-normalised unplanned SAIFI	Normalised unplanned SAIFI
2/08/2023 18:00	4/08/2023 15:00	0.1789	0.0129
1/09/2023 3:30	3/09/2023 2:30	0.1812	0.0048
10/11/2023 14:00	12/11/2023 13:00	0.3026	0.0074

4.3 Statement of compliance with extreme event standard

As demonstrated in Table 13 below, and consistent with clause 9.9 of the 2020 DPP Determination Firstlight Network has complied with the extreme event standard.

Table 13

Extreme event standard RY24	
Unplanned SAIDI value ≤ 120 minutes, and customer interruption minutes ≤ six million during any 24-hour period, excluding unplanned interruptions from major external factors	
Number of extreme events	Compliance result
-	Compliant

4.4 Quality Incentive Adjustment

Table 14 below shows Firstlight Network's quality incentive adjustment for the assessment period.

Table 14

Quality Incentive Adjustment RY24		
Term	Description	Value ($000)
SAIDI planned adjustment	*(SAIDI planned, target - SAIDI planned, assessed) x 0.5 x IR*	(5)
SAIDI unplanned adjustment	*(SAIDI unplanned, target - SAIDI unplanned, assessed) x IR*	(128)
Total adjustment	*SAIDI planned adjustment + SAIDI unplanned adjustment*	(133)
Revenue at risk	*0.02 * ANAR*	569
Total penalty/reward		(133)
67th percentile estimate of post-tax WACC		4.23%
Quality incentive adjustment		**(145)**

Table 15 below shows Firstlight Network's quality incentive adjustment inputs consistent with Schedule 4 of the 2020 DPP Determination.

Table 15

Quality Incentive Adjustment Inputs RY24					
Term	Units	Value	Term	Units	Value
SAIDI planned interruption cap	minutes	258.14	SAIDI unplanned interruption cap	minutes	219.46
SAIDI planned interruption collar	minutes	-	SAIDI unplanned interruption collar	minutes	-
SAIDI planned interruption target	minutes	86.05	SAIDI unplanned interruption target	minutes	173.85
Planned SAIDI assessed value	minutes	89.96	Unplanned SAIDI assessed value	minutes	314.65
Incentive rate		2,797			
Actual net allowable revenue (ANAR)	$000	28,473			
SAIDI planned interruption target	minutes	86	SAIDI unplanned interruption target	minutes	174
Minimum of the planned SAIDI cap and assessed value	minutes	90	Minimum of the unplanned SAIDI cap and assessed value	minutes	219
Planned SAIDI subject to incentive	minutes	(4)	Unplanned SAIDI subject to incentive	minutes	(46)
Adjustment (IR x 0.5)	$	1,399	Adjustment (IR)	$	2,797
SAIDI planned adjustment	$000	(5)	SAIDI unplanned adjustment	$000	(128)

5. Transactions

Firstlight Network 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

Pass-through costs

Table 16

Actual and forecast pass-through costs RY24				
Actual pass-through costs	Actual ($000)	Forecast ($000)	Forecast variance ($000)	Explanation for variances
Rates on system fixed assets	250	280	(31)	Unexpected decrease in rates as the forecasts were based on the previous year's invoice at the time of price setting which were adjusted based on CPI increase.
Commerce Act levies	104	58	46	Forecast based on FY22 actuals with the CPI component. Levies set year to year are subject to change in the program of work. Variance attributable to DPP reset and IM review
Electricity Authority levies	71	77	(6)	Forecast based on FY22 actuals with the CPI component. Lower than expected levies from EA
Utilities Disputes levies	17	19	(2)	Forecasts were based on the previous year's invoice at the time of price setting.
Total actual pass-through costs	**441**	**434**	**7**	

Recoverable cost

Table 17

Actual and forecast recoverable costs RY24				
Actual recoverable costs	Actual ($000)	Forecast ($000)	Forecast variance ($000)	Explanation for variances
IRIS incentive adjustment	(293)	(293)	-	
Transmission charges	4,416	4,416	-	
New investment contract charges	75	75	-	
System operator services charges			-	
Avoided transmission charges			-	
Distributed generation allowance			-	
Claw-back			-	
Catastrophic event allowance			-	
Extended reserves allowance			-	
Quality incentive adjustment	(164)	(164)	-	
Capex wash-up adjustment	(81)	(81)	-	
Reconsideration event allowance			-	
Quality standard variation engineers fee			-	
Urgent project allowance			-	
Fire and Emergency NZ levies	59	28	32	Forecasts were based on the previous year's invoice at the time of price setting. Higher premiums than expected
Innovation project allowance			-	
Total actual recoverable costs	**4,012**	**3,980**	**32**	

Pass through balance.

Table 18

Opening wash-up account balance RY24		
Term	Description	Value ($000)
Wash-up amout for the previous assessment period	*Pass-through balance for the assessment period ending 31 March 2022*	25
Voluntary undercharging amount foregone for the previous assessment period	*An estimate of the pass-through balance as at 31 March 2022*	-
67th percentile estimate of post-tax WACC		4.23%
Opening wash-up account balance RY24	*(Wash-up amount - voluntary undercharging amount foregone) x (1 + 67th percentile estimate of post-tax*	**28**

Appendix B – Prices and quantities

Table 19 shows the actual prices and quantities for actual revenue from prices for the fourth assessment period.

Table 19

Actual revenue from prices RY24				
Price Category	Unit	Unit price	Actual quantity	Actual revenue ($000)
DOMLFC Fixed	*$/day*	*0.4500*	*12,226*	*2,014*
DOMLFC Peak	*$/kWh*	*0.1588*	*8,463,554*	*1,344*
DOMLFC Off Peak + Night	*$/kWh*	*0.0882*	*17,383,267*	*1,533*
DOMLFC Uncontrolled	*$/kWh*	*0.1116*	*24,563,903*	*2,741*
DOMLFC Controlled	*$/kWh*	*0.0979*	*13,228,987*	*1,295*
DOMSTD Fixed	*$/day*	*2.0001*	*8,181*	*5,989*
DOMSTD Peak	*$/kWh*	*0.0708*	*9,175,277*	*650*
DOMSTD Off Peak + Night	*$/kWh*	*0.0280*	*20,208,434*	*566*
DOMSTD Uncontrolled	*$/kWh*	*0.0427*	*27,425,697*	*1,171*
DOMSTD Controlled	*$/kWh*	*0.0229*	*13,966,590*	*320*
COM0050 Fixed	*$/day*	*2.3065*	*4,632*	*3,910*
COM0050 Peak	*$/kWh*	*0.0591*	*3,106,878*	*184*
COM0050 Off Peak + Night	*$/kWh*	*0.0237*	*7,320,395*	*173*
COM0050 Uncontrolled	*$/kWh*	*0.0346*	*27,293,562*	*944*
COM0050 Controlled	*$/kWh*	*0.0208*	*2,265,634*	*47*
COM0100 Fixed	*$/day*	*8.7471*	*431*	*1,381*
COM0100 Peak	*$/kWh*	*0.0829*	*1,760,298*	*146*
COM0100 Off Peak + Night	*$/kWh*	*0.0332*	*4,590,397*	*152*
COM0100 Uncontrolled	*$/kWh*	*0.0467*	*16,191,136*	*756*
COM0100 Controlled	*$/kWh*	*0.0308*	*314,665*	*10*
COM0300 Fixed	*$/day*	*17.1694*	*121*	*762*
COM0300 Morning Peak	*$/kWh*	*0.0351*	*2,864,001*	*101*
COM0300 Night	*$/kWh*	*0.0155*	*2,598,781*	*40*
COM0300 Evening Peak	*$/kWh*	*0.0376*	*1,695,563*	*64*
COM0300 Off Peak	*$/kWh*	*0.0278*	*3,541,758*	*98*
COM0300 Uncontrolled	*$/kWh*	*0.0411*	*10,043,342*	*413*
COM0500 Fixed	*$/day*	*40.0264*	*23*	*341*
COM0500 Morning Peak	*$/kWh*	*0.0203*	*2,640,350*	*54*
COM0500 Night	*$/kWh*	*0.0090*	*2,968,748*	*27*
COM0500 Evening Peak	*$/kWh*	*0.0218*	*1,629,601*	*36*
COM0500 Off Peak	*$/kWh*	*0.0161*	*3,287,709*	*53*

Table 19 continued

Actual revenue from prices RY24				
Price Category	Unit	Unit price	Actual quantity	Actual revenue ($000)
COM1000 Fixed	*$/day*	*78.7439*	*24*	*692*
COM1000 Morning Peak	*$/kWh*	*0.0194*	*8,031,120*	*156*
COM1000 Night	*$/kWh*	*0.0086*	*9,457,128*	*81*
COM1000 Evening Peak	*$/kWh*	*0.0208*	*5,427,503*	*113*
COM1000 Off Peak	*$/kWh*	*0.0154*	*10,440,460*	*161*
COM4500 Fixed	*$/day*	*218.6888*	*3*	*240*
COM4500 Morning Peak	*$/kWh*	*0.0245*	*6,146,884*	*151*
COM4500 Night	*$/kWh*	*0.0108*	*8,091,163*	*87*
COM4500 Evening Peak	*$/kWh*	*0.0262*	*4,467,292*	*117*
COM4500 Off Peak	*$/kWh*	*0.0196*	*8,239,819*	*162*
COM6500 Fixed	*$/day*	*282.7105*	*1*	*103*
COM6500 Morning Peak	*$/kWh*	*0.0305*	*1,372,253*	*42*
COM6500 Night	*$/kWh*	*0.0134*	*1,087,164*	*15*
COM6500 Evening Peak	*$/kWh*	*0.0326*	*530,214*	*17*
COM6500 Off Peak	*$/kWh*	*0.0244*	*1,496,679*	*37*
GEN4500 Fixed	*$/day*	*63.3949*	*1*	*23*
GEN6500 Fixed	*$/day*	*110.7198*	*1*	*41*
GEN6500 Uncontrolled	*$/kWh*	*0.0309*	*120,822*	*4*
GENCN01 Fixed	*$/day*	*22.7650*	*0*	*3*
GENCN01 Uncontrolled	*$/kWh*	*0.0346*	*9,519*	*0*
OTH0003 Fixed	*$/day*	*0.5198*	*79*	*15*
OTH0003 Uncontrolled	*$/kWh*	*0.1063*	*211,717*	*23*
DUML Fixed	*$/day*	*0.0679*	*5,282*	*131*
DUML Uncontrolled	*$/kWh*	*0.0697*	*1,379,981*	*96*
STLGM Fixed	*$/day*	*0.0656*	*243*	*6*
STLGM Uncontrolled	*$/kWh*	*0.0820*	*33,442*	*3*
DOMLFC Peak - RY23 wash-ups	*$/kWh*	*0.1770*	*(22,163)*	*(4)*
DOMLFC Off Peak + Night - RY23 wash-ups	*$/kWh*	*0.0957*	*58,815*	*6*
DOMLFC Uncontrolled - RY23 wash-ups	*$/kWh*	*0.1237*	*(382,873)*	*(47)*
DOMLFC Controlled - RY23 wash-ups	*$/kWh*	*0.1050*	*(32,009)*	*(3)*
DOMSTD Peak - RY23 wash-ups	*$/kWh*	*0.0778*	*17,862*	*1*
DOMSTD Off Peak + Night - RY23 wash-ups	*$/kWh*	*0.0309*	*348,812*	*11*
DOMSTD Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0469*	*(518,739)*	*(24)*

Table 19 continued

Actual revenue from prices RY24				
Price Category	Unit	Unit price	Actual quantity	Actual revenue ($000)
DOMSTD Controlled - RY23 wash-ups	*$/kWh*	*0.0260*	*35,413*	*1*
COM0050 Peak - RY23 wash-ups	*$/kWh*	*0.0674*	*(31,676)*	*(2)*
COM0050 Off Peak + Night - RY23 wash-ups	*$/kWh*	*0.0270*	*(4,912)*	*(0)*
COM0050 Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0400*	*(636,209)*	*(25)*
COM0050 Controlled - RY23 wash-ups	*$/kWh*	*0.0241*	*(51,164)*	*(1)*
COM0100 Peak - RY23 wash-ups	*$/kWh*	*0.0931*	*5,855*	*1*
COM0100 Off Peak + Night - RY23 wash-ups	*$/kWh*	*0.0373*	*10,957*	*0*
COM0100 Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0524*	*(123,571)*	*(6)*
COM0100 Controlled - RY23 wash-ups	*$/kWh*	*0.0345*	*(7,106)*	*(0)*
COM0300 Morning Peak - RY23 wash-ups	*$/kWh*	*0.0350*	*(44,828)*	*(2)*
COM0300 Night - RY23 wash-ups	*$/kWh*	*0.0154*	*(29,931)*	*(0)*
COM0300 Evening Peak - RY23 wash-ups	*$/kWh*	*0.0375*	*(23,573)*	*(1)*
COM0300 Off Peak - RY23 wash-ups	*$/kWh*	*0.0278*	*(25,038)*	*(1)*
COM0300 Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0414*	*(46,196)*	*(2)*
COM0500 Night - RY23 wash-ups	*$/kWh*	*0.0154*	*62,214*	*1*
COM0500 Evening Peak - RY23 wash-ups	*$/kWh*	*0.0375*	*35,579*	*1*
COM0500 Off Peak - RY23 wash-ups	*$/kWh*	*0.0278*	*66,574*	*2*
COM0500 Morning Peak - RY23 wash-ups	*$/kWh*	*0.0350*	*52,325*	*2*
COM1000 Night - RY23 wash-ups	*$/kWh*	*0.0154*	*7,603*	*0*
COM1000 Evening Peak - RY23 wash-ups	*$/kWh*	*0.0375*	*4,429*	*0*
COM1000 Off Peak - RY23 wash-ups	*$/kWh*	*0.0278*	*8,241*	*0*
COM1000 Morning Peak - RY23 wash-ups	*$/kWh*	*0.0350*	*5,903*	*0*
COM4500 Morning Peak - RY23 wash-ups	*$/kWh*	*0.0343*	*(167,244)*	*(6)*
COM4500 Night - RY23 wash-ups	*$/kWh*	*0.0150*	*(263,431)*	*(4)*
COM4500 Evening Peak - RY23 wash-ups	*$/kWh*	*0.0366*	*(141,451)*	*(5)*
COM4500 Off Peak - RY23 wash-ups	*$/kWh*	*0.0274*	*(238,683)*	*(7)*
COM6500 Morning Peak - RY23 wash-ups	*$/kWh*	*0.0343*	*2*	*0*
COM6500 Night - RY23 wash-ups	*$/kWh*	*0.0150*	*2*	*0*
COM6500 Evening Peak - RY23 wash-ups	*$/kWh*	*0.0366*	*0*	*0*
COM6500 Off Peak - RY23 wash-ups	*$/kWh*	*0.0274*	*3*	*0*
GEN6500 Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0309*	*(0)*	*(0)*
OTH0003 Uncontrolled - RY23 wash-ups	*$/kWh*	*0.1042*	*(5,822)*	*(1)*
DUML Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0729*	*95,739*	*7*
STLGM Uncontrolled - RY23 wash-ups	*$/kWh*	*0.0729*	*(632)*	*(0)*
Tariff switches variances				(32)
Total actual revenue from prices				**29,690**

Table 20 shows the forecast revenue from prices for the fourth assessment period from the price setting compliance statement.

Table 20

Forecast revenue from prices RY24	
Total forecast revenue from prices	**29,928**

Appendix C - Policies and procedures for measuring planned and unplanned interruptions.

Following is a summary of policies and procedures used by Firstlight Network during the assessment period for capturing, recording and calculating class B and class C interruptions and planned and unplanned SAIDI and SAIFI assessed values.

Processing planned and intended interruptions.

1. Project manager issues a job to a network approved contractor.
2. The network approved contractor or project manager completes a work application form for a shutdown and emails it to the control room.
3. Work application is assessed and checked by the control room operators.
4. The information from the approved work application is entered into outage manager (an access database) as a new record.
5. When the data has been entered into outage manager an email is generated about the planned shutdown and sent to registry.
6. Attached with the work application is a schematic plan of the work site which includes the transformers that will be affected by the shutdown. These transformers are entered into outage manager. A file is generated in EIEP5 format and sent to file transfer via Axos to the registry, listing the number of ICPs (customers) affected and these are the customers that are used as a basis for the customer minute calculations.
7. A confirmation of EIEP5 transfer is received from registry and checked against sent files. Additionally, an email message summary is sent to the call centre MEP.
8. The outage is then entered into the Firstlight Network website.
9. When the planned outage occurs, the switching is completed by the controller.
10. The controller completes an outage information form.
11. The outage information form is then checked by another controller to verify the information is correct.
12. The outage form is entered into the SAIDI/SAIFI model. This is an excel model that calculates SAIDI and SAIFI in accordance with the regulations set out in Electricity Distribution Services Default Price-Quality Path Determination 2020 it is managed by Regulatory analyst.

13. The Regulatory Analyst would conduct random checks to review the input to avoid errors.
14. Regulatory Analyst to check the monthly data. These checks include.
    a. Cross check with outage manager to ensure all outages entered into outage manager are in the SAIDI SAIFI model.
    b. Cross check with outages displayed on website to ensure all outages entered onto website are in the SAIDI SAIFI model.
    c. Cross check on notified interruptions with the website notification to ensure that they comply with the 10-day notification period.
15. The Regulatory Analyst to prepare monthly SAIDI SAIFI reports and present them to the Network team during the third week of the following month.
16. Chief Operating Officer to include the monthly SAIDI SAIFI reports in the monthly board papers.

Processing unplanned interruptions

1. An unplanned interruption occurs. The fault trips part of the network and this is alerted to the duty controller.
2. The controller completes the fault switching and the outage information form.
3. The outage form is then checked by another controller.
4. The outage form is entered into the SAIDI/SAIFI model. This is an excel model that calculates SAIDI and SAIFI in accordance with the regulations set out in Electricity Distribution Services Default Price-Quality Path Determination 2020
5. The Regulatory Analyst is to prepare monthly SAIDI SAIFI reports and present them to the Network team during the third week of the following month.
6. Chief Operating Officer to include the monthly SAIDI SAIFI reports in the monthly board papers.

Numbers of customers used for switching sheets throughout the year.

In the event of an unplanned loss of supply, restoration may be followed by a successive interruption due to isolating the initial cause or making repairs to permanently restore supply to all consumers. For clarity, Firstlight's reported SAIFI records the initial outage and does not include any subsequent short duration outages needed to restore supply.

At the start of each regulatory period (1 April) asset information team is responsible for completing the customer numbers as at 1 April. These customer numbers will be the ones that are used for the regulatory period and are to be used while completing the outage data forms.

Firstlight Network understands that throughout the year there will be customers disconnected from the network or new customers connections. However, the effort required to track these changes and update customer maps for customer minute purposes does not seem justified so Firstlight Network will only use this one set of customer numbers for the entire period.

ICP count

The average customer numbers that were generated from Axos (billing system) as part of billing are to be used.

The definition for a customer is: Means any person who is supplied with electricity but does not include any electricity generator or any electricity distributor or retailer.

This means that ICP status AC (= Active) is to be included in the average customer numbers for the year.

Appendix D – SAIDI and SAIFI major events

The below table 21 and 22 show the normalisation of the SAIDI and SAIFI major events that took place during the assessment period, consistent with Schedule 3.2 of the 2020 DPP Determination.

Below each table there is further information pertaining to the major event including location of the event, equipment involved, Firstlight Network's response and future steps to avoid similar events occurring in the future.

Detailed analysis was only done for the main contributing outages to the SAIDI or SAIFI major event. An outage with more than 20% weighting towards the raw SAIDI or SAIFI number was included in the analysis.

Table 21

Normalisation of unplanned SAIDI major events RY24	
SAIDI unplanned boundary value	**13.10**

1/48th of the SAIDI unplanned boundary value	21/06/2023 to 25/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	21/06/2023 16:00	0.0000	0.0000
0.27	21/06/2023 16:30	0.0000	0.0000
0.27	21/06/2023 17:00	0.0000	0.0000
0.27	21/06/2023 17:30	0.0000	0.0000
0.27	21/06/2023 18:00	0.0000	0.0000
0.27	21/06/2023 18:30	0.0000	0.0000
0.27	21/06/2023 19:00	0.0000	0.0000
0.27	21/06/2023 19:30	0.0000	0.0000
0.27	21/06/2023 20:00	0.0000	0.0000
0.27	21/06/2023 20:30	0.0000	0.0000
0.27	21/06/2023 21:00	0.0000	0.0000
0.27	21/06/2023 21:30	0.0000	0.0000
0.27	21/06/2023 22:00	0.0000	0.0000
0.27	21/06/2023 22:30	0.0000	0.0000
0.27	21/06/2023 23:00	0.0000	0.0000
0.27	21/06/2023 23:30	0.0000	0.0000
0.27	22/06/2023 0:00	0.0000	0.0000
0.27	22/06/2023 0:30	0.6015	0.2729
0.27	22/06/2023 1:00	0.0000	0.0000
0.27	22/06/2023 1:30	0.0000	0.0000
0.27	22/06/2023 2:00	0.0000	0.0000
0.27	22/06/2023 2:30	0.0000	0.0000
0.27	22/06/2023 3:00	0.0000	0.0000
0.27	22/06/2023 3:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	21/06/2023 to 25/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	22/06/2023 4:00	0.0000	0.0000
0.27	22/06/2023 4:30	0.0000	0.0000
0.27	22/06/2023 5:00	0.0000	0.0000
0.27	22/06/2023 5:30	0.0000	0.0000
0.27	22/06/2023 6:00	0.0000	0.0000
0.27	22/06/2023 6:30	0.0000	0.0000
0.27	22/06/2023 7:00	0.0000	0.0000
0.27	22/06/2023 7:30	0.0000	0.0000
0.27	22/06/2023 8:00	0.0104	0.0104
0.27	22/06/2023 8:30	8.1864	0.2729
0.27	22/06/2023 9:00	0.0000	0.0000
0.27	22/06/2023 9:30	0.0852	0.0852
0.27	22/06/2023 10:00	0.0000	0.0000
0.27	22/06/2023 10:30	0.0213	0.0213
0.27	22/06/2023 11:00	0.0000	0.0000
0.27	22/06/2023 11:30	0.0000	0.0000
0.27	22/06/2023 12:00	0.0000	0.0000
0.27	22/06/2023 12:30	0.0000	0.0000
0.27	22/06/2023 13:00	0.2021	0.2021
0.27	22/06/2023 13:30	0.9141	0.2729
0.27	22/06/2023 14:00	0.0000	0.0000
0.27	22/06/2023 14:30	0.0000	0.0000
0.27	22/06/2023 15:00	0.0020	0.0020
0.27	22/06/2023 15:30	12.8770	0.2729
0.27	22/06/2023 16:00	0.9144	0.2729
0.27	22/06/2023 16:30	0.0000	0.0000
0.27	22/06/2023 17:00	0.0000	0.0000
0.27	22/06/2023 17:30	0.0000	0.0000
0.27	22/06/2023 18:00	8.4731	0.2729
0.27	22/06/2023 18:30	0.3116	0.2729
0.27	22/06/2023 19:00	4.9991	0.2729
0.27	22/06/2023 19:30	0.0000	0.0000
0.27	22/06/2023 20:00	0.0000	0.0000
0.27	22/06/2023 20:30	0.0000	0.0000
0.27	22/06/2023 21:00	0.0000	0.0000
0.27	22/06/2023 21:30	0.0000	0.0000
0.27	22/06/2023 22:00	0.0000	0.0000
0.27	22/06/2023 22:30	0.0000	0.0000
0.27	22/06/2023 23:00	0.0000	0.0000
0.27	22/06/2023 23:30	0.0000	0.0000
0.27	23/06/2023 0:00	0.0000	0.0000
0.27	23/06/2023 0:30	0.0000	0.0000
0.27	23/06/2023 1:00	0.0000	0.0000
0.27	23/06/2023 1:30	0.0000	0.0000
0.27	23/06/2023 2:00	8.7201	0.2729

1/48th of the SAIDI unplanned boundary value	21/06/2023 to 25/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	23/06/2023 2:30	0.0000	0.0000
0.27	23/06/2023 3:00	0.0000	0.0000
0.27	23/06/2023 3:30	0.0000	0.0000
0.27	23/06/2023 4:00	0.0000	0.0000
0.27	23/06/2023 4:30	0.0000	0.0000
0.27	23/06/2023 5:00	0.0000	0.0000
0.27	23/06/2023 5:30	0.0000	0.0000
0.27	23/06/2023 6:00	0.0000	0.0000
0.27	23/06/2023 6:30	0.0000	0.0000
0.27	23/06/2023 7:00	0.0000	0.0000
0.27	23/06/2023 7:30	0.0000	0.0000
0.27	23/06/2023 8:00	0.0000	0.0000
0.27	23/06/2023 8:30	0.0000	0.0000
0.27	23/06/2023 9:00	0.5502	0.2729
0.27	23/06/2023 9:30	0.3018	0.2729
0.27	23/06/2023 10:00	0.1063	0.1063
0.27	23/06/2023 10:30	0.0000	0.0000
0.27	23/06/2023 11:00	0.0527	0.0527
0.27	23/06/2023 11:30	0.0000	0.0000
0.27	23/06/2023 12:00	0.0000	0.0000
0.27	23/06/2023 12:30	0.0000	0.0000
0.27	23/06/2023 13:00	0.0000	0.0000
0.27	23/06/2023 13:30	0.0000	0.0000
0.27	23/06/2023 14:00	0.0000	0.0000
0.27	23/06/2023 14:30	1.1294	0.2729
0.27	23/06/2023 15:00	0.0000	0.0000
0.27	23/06/2023 15:30	0.0000	0.0000
0.27	23/06/2023 16:00	0.0000	0.0000
0.27	23/06/2023 16:30	0.0000	0.0000
0.27	23/06/2023 17:00	0.0000	0.0000
0.27	23/06/2023 17:30	0.0000	0.0000
0.27	23/06/2023 18:00	0.0000	0.0000
0.27	23/06/2023 18:30	0.0000	0.0000
0.27	23/06/2023 19:00	0.0000	0.0000
0.27	23/06/2023 19:30	0.0000	0.0000
0.27	23/06/2023 20:00	2.7998	0.2729
0.27	23/06/2023 20:30	9.4104	0.2729
0.27	23/06/2023 21:00	0.0000	0.0000
0.27	23/06/2023 21:30	0.0000	0.0000
0.27	23/06/2023 22:00	0.0000	0.0000
0.27	23/06/2023 22:30	0.0000	0.0000
0.27	23/06/2023 23:00	0.0000	0.0000
0.27	23/06/2023 23:30	0.0000	0.0000
0.27	24/06/2023 0:00	0.0000	0.0000
0.27	24/06/2023 0:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	21/06/2023 to 25/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	24/06/2023 1:00	0.0000	0.0000
0.27	24/06/2023 1:30	0.0000	0.0000
0.27	24/06/2023 2:00	0.0000	0.0000
0.27	24/06/2023 2:30	0.0000	0.0000
0.27	24/06/2023 3:00	0.0000	0.0000
0.27	24/06/2023 3:30	0.0000	0.0000
0.27	24/06/2023 4:00	0.3820	0.2729
0.27	24/06/2023 4:30	0.0000	0.0000
0.27	24/06/2023 5:00	0.0000	0.0000
0.27	24/06/2023 5:30	0.0000	0.0000
0.27	24/06/2023 6:00	0.0000	0.0000
0.27	24/06/2023 6:30	0.0000	0.0000
0.27	24/06/2023 7:00	1.1691	0.2729
0.27	24/06/2023 7:30	0.0000	0.0000
0.27	24/06/2023 8:00	0.0000	0.0000
0.27	24/06/2023 8:30	0.0000	0.0000
0.27	24/06/2023 9:00	0.0000	0.0000
0.27	24/06/2023 9:30	9.6997	0.2729
0.27	24/06/2023 10:00	0.0000	0.0000
0.27	24/06/2023 10:30	0.3857	0.2729
0.27	24/06/2023 11:00	0.0000	0.0000
0.27	24/06/2023 11:30	2.9037	0.2729
0.27	24/06/2023 12:00	0.0218	0.0218
0.27	24/06/2023 12:30	1.1718	0.2729
0.27	24/06/2023 13:00	0.0000	0.0000
0.27	24/06/2023 13:30	0.0000	0.0000
0.27	24/06/2023 14:00	0.0000	0.0000
0.27	24/06/2023 14:30	0.0000	0.0000
0.27	24/06/2023 15:00	0.0000	0.0000
0.27	24/06/2023 15:30	0.0000	0.0000
0.27	24/06/2023 16:00	0.0000	0.0000
0.27	24/06/2023 16:30	0.0000	0.0000
0.27	24/06/2023 17:00	0.0000	0.0000
0.27	24/06/2023 17:30	0.0000	0.0000
0.27	24/06/2023 18:00	0.0000	0.0000
0.27	24/06/2023 18:30	0.0000	0.0000
0.27	24/06/2023 19:00	0.0000	0.0000
0.27	24/06/2023 19:30	2.9871	0.2729
0.27	24/06/2023 20:00	0.0000	0.0000
0.27	24/06/2023 20:30	0.0000	0.0000
0.27	24/06/2023 21:00	0.0000	0.0000
0.27	24/06/2023 21:30	0.0000	0.0000
0.27	24/06/2023 22:00	0.9677	0.2729
0.27	24/06/2023 22:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	21/06/2023 to 25/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	24/06/2023 23:00	0.0000	0.0000
0.27	24/06/2023 23:30	0.0000	0.0000
0.27	25/06/2023 0:00	0.0000	0.0000
0.27	25/06/2023 0:30	0.0000	0.0000
0.27	25/06/2023 1:00	0.0000	0.0000
0.27	25/06/2023 1:30	0.0000	0.0000
0.27	25/06/2023 2:00	0.0000	0.0000
0.27	25/06/2023 2:30	0.0000	0.0000
0.27	25/06/2023 3:00	0.0000	0.0000
0.27	25/06/2023 3:30	0.0000	0.0000
0.27	25/06/2023 4:00	0.0000	0.0000
0.27	25/06/2023 4:30	0.0000	0.0000
0.27	25/06/2023 5:00	0.0000	0.0000
0.27	25/06/2023 5:30	0.0000	0.0000
0.27	25/06/2023 6:00	0.0416	0.0416
0.27	25/06/2023 6:30	0.0000	0.0000
0.27	25/06/2023 7:00	0.0000	0.0000
0.27	25/06/2023 7:30	0.0000	0.0000
0.27	25/06/2023 8:00	0.0000	0.0000
0.27	25/06/2023 8:30	0.0000	0.0000
0.27	25/06/2023 9:00	0.0000	0.0000
Total		**80.3991**	**6.5476**

SAIDI Major Event Information	
Cause	Multiple slips took down poles/conductor and trees
Start Date	21/06/2023
Start Time	4:00 pm
End Date	25/06/2023
End Time	9:00 am
SAIDI value of major event before replacement	80.399
SAIDI value of major event	6.548
Location of SAIDI major event	Tauwhareparae, Mata road, Waimata road, Pehiri road and Bushy Knoll road
Main equipment involved in SAIDI major event	11kV Lines, Poles and Conductor
How Firstlight Network responded to the event	On June 22, 2023, downed wires on Tauwhareparae Road caused recloser G367 to isolate 49 ICPs, with recloser G367 tripping again later due to additional slips. Generators were installed, but access issues delayed full restoration until June 30. On Mata Road, recloser H341 tripped the same day, affecting 64 ICPs, with slips causing damage and leaving nine ICPs off until June 4. On Waimata Road, a fault was addressed with a generator to restore power beyond the fault. On Pehiri Road, access issues limited fault response and restoration. On Bushy Knoll Road, initial access problems and limited helicopter access delayed restoration, which was completed seven days later when vehicle access was restored.
Mitigating factors that may have prevented or minimised the major event	Three slips on Tauwhareparae Road cut off the main access, and slips on Mata Road and Waimata Road further delayed access. Mata Road's slips caused restoration delays, with the Ihungia link out due to Cyclone Gabrielle. Waimata Road had a spur line fault and restricted access due to a slip. Pehiri Road's fault occurred at night, but severe weather delayed attendance until daybreak, with multiple slips blocking access and taking out poles. Bushy Knoll Road experienced a major rain event, causing slips that brought down poles and damaged a bridge, restricting access.
Steps taken to mitigate the risk of future major events	Significant efforts have been made across several key areas to improve infrastructure and reliability. In Tauwhareparae, significant realignments have been made to the feeder in vulnerable locations, and permanent generation options are being investigated. On Mata Road, the Ihungia link has been restored and upgraded, enhancing backfeeding capability. Additionally, two remote switches past recloser H341 have been upgraded to sectionalisers, which will help with automatic fault isolation. For Waimata Road, an alternative link between Te Wera Road and Tahora Road is under investigation. On Pehiri Road, FNL is embarking on a project to install sectionalisers on remote and large tapoffs. However, Bushy Knoll Road faces access issues beyond our control.

1/48th of the SAIDI unplanned boundary value	26/06/2023 to 27/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	26/06/2023 1:00	0.0000	0.0000
0.27	26/06/2023 1:30	0.0000	0.0000
0.27	26/06/2023 2:00	0.0000	0.0000
0.27	26/06/2023 2:30	0.0000	0.0000
0.27	26/06/2023 3:00	0.0000	0.0000
0.27	26/06/2023 3:30	0.0000	0.0000
0.27	26/06/2023 4:00	0.0000	0.0000
0.27	26/06/2023 4:30	0.0000	0.0000
0.27	26/06/2023 5:00	0.0000	0.0000
0.27	26/06/2023 5:30	0.0000	0.0000
0.27	26/06/2023 6:00	0.0000	0.0000
0.27	26/06/2023 6:30	0.0000	0.0000
0.27	26/06/2023 7:00	0.0000	0.0000
0.27	26/06/2023 7:30	0.0877	0.0877
0.27	26/06/2023 8:00	0.0000	0.0000
0.27	26/06/2023 8:30	0.0000	0.0000
0.27	26/06/2023 9:00	0.0099	0.0099
0.27	26/06/2023 9:30	0.0000	0.0000
0.27	26/06/2023 10:00	0.0000	0.0000
0.27	26/06/2023 10:30	0.0000	0.0000
0.27	26/06/2023 11:00	0.0000	0.0000
0.27	26/06/2023 11:30	0.8980	0.2729
0.27	26/06/2023 12:00	0.0000	0.0000
0.27	26/06/2023 12:30	0.0000	0.0000
0.27	26/06/2023 13:00	0.0000	0.0000
0.27	26/06/2023 13:30	0.0000	0.0000
0.27	26/06/2023 14:00	0.0000	0.0000
0.27	26/06/2023 14:30	0.0000	0.0000
0.27	26/06/2023 15:00	0.0000	0.0000
0.27	26/06/2023 15:30	0.5217	0.2729
0.27	26/06/2023 16:00	7.9310	0.2729
0.27	26/06/2023 16:30	0.0000	0.0000
0.27	26/06/2023 17:00	0.0000	0.0000
0.27	26/06/2023 17:30	0.0000	0.0000
0.27	26/06/2023 18:00	0.0000	0.0000
0.27	26/06/2023 18:30	0.0000	0.0000
0.27	26/06/2023 19:00	0.0000	0.0000
0.27	26/06/2023 19:30	0.0000	0.0000
0.27	26/06/2023 20:00	0.0000	0.0000
0.27	26/06/2023 20:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	26/06/2023 to 27/06/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	26/06/2023 21:00	0.0000	0.0000
0.27	26/06/2023 21:30	0.0000	0.0000
0.27	26/06/2023 22:00	1.8208	0.2729
0.27	26/06/2023 22:30	0.0000	0.0000
0.27	26/06/2023 23:00	0.0000	0.0000
0.27	26/06/2023 23:30	0.0000	0.0000
0.27	27/06/2023 0:00	0.0000	0.0000
0.27	27/06/2023 0:30	2.1238	0.2729
0.27	27/06/2023 1:00	1.1756	0.2729
0.27	27/06/2023 1:30	0.0000	0.0000
0.27	27/06/2023 2:00	0.0000	0.0000
0.27	27/06/2023 2:30	0.0000	0.0000
0.27	27/06/2023 3:00	0.3280	0.2729
0.27	27/06/2023 3:30	0.0000	0.0000
0.27	27/06/2023 4:00	0.0000	0.0000
0.27	27/06/2023 4:30	0.0000	0.0000
0.27	27/06/2023 5:00	0.1061	0.1061
0.27	27/06/2023 5:30	0.0000	0.0000
0.27	27/06/2023 6:00	0.0000	0.0000
0.27	27/06/2023 6:30	0.0000	0.0000
0.27	27/06/2023 7:00	0.0000	0.0000
0.27	27/06/2023 7:30	0.0000	0.0000
0.27	27/06/2023 8:00	0.0000	0.0000
0.27	27/06/2023 8:30	0.0000	0.0000
0.27	27/06/2023 9:00	0.0000	0.0000
0.27	27/06/2023 9:30	0.0000	0.0000
0.27	27/06/2023 10:00	0.0000	0.0000
0.27	27/06/2023 10:30	0.4269	0.2729
0.27	27/06/2023 11:00	0.0000	0.0000
0.27	27/06/2023 11:30	0.0000	0.0000
0.27	27/06/2023 12:00	0.0277	0.0277
0.27	27/06/2023 12:30	0.3505	0.2729
0.27	27/06/2023 13:00	0.0077	0.0077
0.27	27/06/2023 13:30	0.0000	0.0000
0.27	27/06/2023 14:00	0.0000	0.0000
0.27	27/06/2023 14:30	0.0000	0.0000
0.27	27/06/2023 15:00	0.0000	0.0000
0.27	27/06/2023 15:30	0.0000	0.0000
Total		**15.8155**	**2.6955**

SAIDI Major Event Information	
Cause	The pole that had slipped needed to be removed and relocated.
Start Date	26/06/2023
Start Time	1:00 am
End Date	27/06/2023
End Time	3:30 pm
SAIDI value of major event before replacement	15.8155
SAIDI value of major event	2.696
Location of SAIDI major event	Tokomaru Bay
Main equipment involved in SAIDI major event	11kV Lines and poles
How Firstlight Network responded to the event	The lines initially floated while maintaining clearance, and a larger pole was installed in stable ground.
Mitigating factors that may have prevented or minimised the major event	Simultaneous fault on another feeder limited back feed options.
Steps taken to mitigate the risk of future major events	Reviewing network configuration and alignment of lines over unstable ground.

1/48th of the SAIDI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	1/09/2023 3:30	0.0000	0.0000
0.27	1/09/2023 4:00	0.0000	0.0000
0.27	1/09/2023 4:30	0.0000	0.0000
0.27	1/09/2023 5:00	0.0000	0.0000
0.27	1/09/2023 5:30	0.0000	0.0000
0.27	1/09/2023 6:00	0.0000	0.0000
0.27	1/09/2023 6:30	0.0000	0.0000
0.27	1/09/2023 7:00	0.0301	0.0301
0.27	1/09/2023 7:30	0.0000	0.0000
0.27	1/09/2023 8:00	0.0000	0.0000
0.27	1/09/2023 8:30	0.0000	0.0000
0.27	1/09/2023 9:00	0.0000	0.0000
0.27	1/09/2023 9:30	0.0000	0.0000
0.27	1/09/2023 10:00	0.0000	0.0000
0.27	1/09/2023 10:30	0.0000	0.0000
0.27	1/09/2023 11:00	0.0000	0.0000
0.27	1/09/2023 11:30	0.0000	0.0000
0.27	1/09/2023 12:00	0.0000	0.0000
0.27	1/09/2023 12:30	0.0000	0.0000
0.27	1/09/2023 13:00	0.0000	0.0000
0.27	1/09/2023 13:30	0.0000	0.0000
0.27	1/09/2023 14:00	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	1/09/2023 14:30	0.0000	0.0000
0.27	1/09/2023 15:00	0.0000	0.0000
0.27	1/09/2023 15:30	0.0000	0.0000
0.27	1/09/2023 16:00	0.0000	0.0000
0.27	1/09/2023 16:30	0.0000	0.0000
0.27	1/09/2023 17:00	0.0000	0.0000
0.27	1/09/2023 17:30	0.0000	0.0000
0.27	1/09/2023 18:00	0.0000	0.0000
0.27	1/09/2023 18:30	0.0000	0.0000
0.27	1/09/2023 19:00	0.0000	0.0000
0.27	1/09/2023 19:30	0.0000	0.0000
0.27	1/09/2023 20:00	0.0000	0.0000
0.27	1/09/2023 20:30	0.0000	0.0000
0.27	1/09/2023 21:00	0.0000	0.0000
0.27	1/09/2023 21:30	0.0000	0.0000
0.27	1/09/2023 22:00	0.0000	0.0000
0.27	1/09/2023 22:30	0.0000	0.0000
0.27	1/09/2023 23:00	0.0000	0.0000
0.27	1/09/2023 23:30	0.0000	0.0000
0.27	2/09/2023 0:00	0.0000	0.0000
0.27	2/09/2023 0:30	0.0000	0.0000
0.27	2/09/2023 1:00	0.0000	0.0000
0.27	2/09/2023 1:30	0.0000	0.0000
0.27	2/09/2023 2:00	0.0000	0.0000
0.27	2/09/2023 2:30	0.0000	0.0000
0.27	2/09/2023 3:00	13.3515	0.2729
0.27	2/09/2023 3:30	0.0000	0.0000
0.27	2/09/2023 4:00	0.0000	0.0000
0.27	2/09/2023 4:30	0.0000	0.0000
0.27	2/09/2023 5:00	0.0000	0.0000
0.27	2/09/2023 5:30	0.0000	0.0000
0.27	2/09/2023 6:00	0.0000	0.0000
0.27	2/09/2023 6:30	0.0000	0.0000
0.27	2/09/2023 7:00	0.0000	0.0000
0.27	2/09/2023 7:30	0.0000	0.0000
0.27	2/09/2023 8:00	0.0000	0.0000
0.27	2/09/2023 8:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	2/09/2023 9:00	0.0000	0.0000
0.27	2/09/2023 9:30	0.0000	0.0000
0.27	2/09/2023 10:00	0.0000	0.0000
0.27	2/09/2023 10:30	0.0000	0.0000
0.27	2/09/2023 11:00	0.0000	0.0000
0.27	2/09/2023 11:30	0.0000	0.0000
0.27	2/09/2023 12:00	0.0023	0.0023
0.27	2/09/2023 12:30	0.0000	0.0000
0.27	2/09/2023 13:00	0.0000	0.0000
0.27	2/09/2023 13:30	0.0000	0.0000
0.27	2/09/2023 14:00	0.0000	0.0000
0.27	2/09/2023 14:30	0.0000	0.0000
0.27	2/09/2023 15:00	0.0000	0.0000
0.27	2/09/2023 15:30	0.0000	0.0000
0.27	2/09/2023 16:00	0.0000	0.0000
0.27	2/09/2023 16:30	0.0000	0.0000
0.27	2/09/2023 17:00	0.0000	0.0000
0.27	2/09/2023 17:30	0.0000	0.0000
0.27	2/09/2023 18:00	0.0000	0.0000
0.27	2/09/2023 18:30	0.0144	0.0144
0.27	2/09/2023 19:00	0.0000	0.0000
0.27	2/09/2023 19:30	0.0000	0.0000
0.27	2/09/2023 20:00	0.0000	0.0000
0.27	2/09/2023 20:30	0.0000	0.0000
0.27	2/09/2023 21:00	0.0000	0.0000
0.27	2/09/2023 21:30	0.0000	0.0000
0.27	2/09/2023 22:00	0.0000	0.0000
0.27	2/09/2023 22:30	0.0000	0.0000
0.27	2/09/2023 23:00	0.0000	0.0000
0.27	2/09/2023 23:30	0.0000	0.0000
0.27	3/09/2023 0:00	0.0000	0.0000
0.27	3/09/2023 0:30	0.0000	0.0000
0.27	3/09/2023 1:00	0.0000	0.0000
0.27	3/09/2023 1:30	0.0000	0.0000
0.27	3/09/2023 2:00	0.0000	0.0000
0.27	3/09/2023 2:30	0.0000	0.0000
Total		**13.3983**	**0.3197**

SAIDI Major Event Information	
Cause	A 50kV trip with a 2000 AMP overcurrent fault was detected, but the fault could not be found.
Start Date	1/09/2023
Start Time	3:30 am
End Date	3/09/2023
End Time	2:30 am
SAIDI value of major event before replacement	13.3983
SAIDI value of major event	0.3197
Location of SAIDI major event	Gisborne Sub to Makaraka Sub
Main equipment involved in SAIDI major event	The 50kV Line Gis-Makaraka starts at CB182 at Gisborne Sub, traverses across country to Ormond Road, then down Cameron Road, across the cemetery, and ends at Makaraka Sub, covering a line length of 7 km. This feeder supplies Makaraka Sub (2830 customers), which in turn supplies JNL Sub (1 customer) and Parkinson Sub (1842 customers). The line tripped on an overcurrent earth fault with an indication of 2000 amps fault current on Saturday, September 2, at 3:24 a.m.
How Firstlight Network responded to the event	As there is additional protection at Makaraka Sub and the line is part of a ring, the controller performed remote switching to restore power to JNL Sub and Parkinson Sub (1,843 ICPs) at 4:00 p.m. A faultsman was dispatched to Makaraka Sub, which is 10 minutes out of town. The tripped line was isolated at Makaraka Sub and backfed from Parkinson Sub, bringing on the remaining 2,830 ICPs at 5:03 a.m. The line was then patrolled, but no fault cause was found.
Mitigating factors that may have prevented or minimised the major event	FNL does not operate a 24/7 manned control room. After hours and on weekends, coverage is provided by an after-hours Duty Controller who works from home. In this instance, the Duty Controller had to come into the office Control Room to carry out the switching.
Steps taken to mitigate the risk of future major events	This feeder is patrolled as part of the sub-transmission maintenance cycle. Following Cyclone Gabrielle, slips brought trees close to the line, though they were not the cause of this fault. These offending trees have been removed. We are currently proposing the installation of a new 50/11kV substation at the hospital to provide better protection and quicker restoration switching. Additionally, fault indicators are being installed at Makaraka Sub.

1/48th of the SAIDI unplanned boundary value	25/11/2023 to 27/11/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	25/11/2023 1:00	0.0000	0.0000
0.27	25/11/2023 1:30	0.0000	0.0000
0.27	25/11/2023 2:00	0.0000	0.0000
0.27	25/11/2023 2:30	0.0000	0.0000
0.27	25/11/2023 3:00	0.0000	0.0000
0.27	25/11/2023 3:30	0.0000	0.0000
0.27	25/11/2023 4:00	0.0000	0.0000
0.27	25/11/2023 4:30	0.0000	0.0000
0.27	25/11/2023 5:00	1.8269	0.2729
0.27	25/11/2023 5:30	0.0000	0.0000
0.27	25/11/2023 6:00	0.0000	0.0000
0.27	25/11/2023 6:30	0.0000	0.0000
0.27	25/11/2023 7:00	0.0116	0.0116
0.27	25/11/2023 7:30	0.0000	0.0000
0.27	25/11/2023 8:00	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	25/11/2023 to 27/11/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	25/11/2023 8:30	0.0000	0.0000
0.27	25/11/2023 9:00	0.0000	0.0000
0.27	25/11/2023 9:30	0.0000	0.0000
0.27	25/11/2023 10:00	0.0000	0.0000
0.27	25/11/2023 10:30	0.0000	0.0000
0.27	25/11/2023 11:00	4.3462	0.2729
0.27	25/11/2023 11:30	0.0000	0.0000
0.27	25/11/2023 12:00	0.0000	0.0000
0.27	25/11/2023 12:30	0.0000	0.0000
0.27	25/11/2023 13:00	0.0000	0.0000
0.27	25/11/2023 13:30	0.0000	0.0000
0.27	25/11/2023 14:00	0.0000	0.0000
0.27	25/11/2023 14:30	0.0050	0.0050
0.27	25/11/2023 15:00	0.0000	0.0000
0.27	25/11/2023 15:30	0.0000	0.0000
0.27	25/11/2023 16:00	0.0000	0.0000
0.27	25/11/2023 16:30	0.0000	0.0000
0.27	25/11/2023 17:00	0.0000	0.0000
0.27	25/11/2023 17:30	0.0000	0.0000
0.27	25/11/2023 18:00	0.0426	0.0426
0.27	25/11/2023 18:30	0.0000	0.0000
0.27	25/11/2023 19:00	0.0000	0.0000
0.27	25/11/2023 19:30	0.0000	0.0000
0.27	25/11/2023 20:00	0.0000	0.0000
0.27	25/11/2023 20:30	0.0000	0.0000
0.27	25/11/2023 21:00	0.0000	0.0000
0.27	25/11/2023 21:30	0.0000	0.0000
0.27	25/11/2023 22:00	0.0000	0.0000
0.27	25/11/2023 22:30	0.0252	0.0252
0.27	25/11/2023 23:00	0.0000	0.0000
0.27	25/11/2023 23:30	1.9463	0.2729
0.27	26/11/2023 0:00	0.0000	0.0000
0.27	26/11/2023 0:30	8.4352	0.2729
0.27	26/11/2023 1:00	0.0000	0.0000
0.27	26/11/2023 1:30	2.3850	0.2729
0.27	26/11/2023 2:00	3.6191	0.2729
0.27	26/11/2023 2:30	0.0000	0.0000
0.27	26/11/2023 3:00	0.0000	0.0000
0.27	26/11/2023 3:30	0.0000	0.0000
0.27	26/11/2023 4:00	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	25/11/2023 to 27/11/2023		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	26/11/2023 4:30	0.0000	0.0000
0.27	26/11/2023 5:00	0.0000	0.0000
0.27	26/11/2023 5:30	0.0000	0.0000
0.27	26/11/2023 6:00	0.0000	0.0000
0.27	26/11/2023 6:30	1.2453	0.2729
0.27	26/11/2023 7:00	0.0000	0.0000
0.27	26/11/2023 7:30	1.0798	0.2729
0.27	26/11/2023 8:00	0.0000	0.0000
0.27	26/11/2023 8:30	0.0000	0.0000
0.27	26/11/2023 9:00	0.0000	0.0000
0.27	26/11/2023 9:30	0.0000	0.0000
0.27	26/11/2023 10:00	0.0000	0.0000
0.27	26/11/2023 10:30	1.0139	0.2729
0.27	26/11/2023 11:00	1.0507	0.2729
0.27	26/11/2023 11:30	0.4649	0.2729
0.27	26/11/2023 12:00	0.0000	0.0000
0.27	26/11/2023 12:30	0.0000	0.0000
0.27	26/11/2023 13:00	0.0000	0.0000
0.27	26/11/2023 13:30	0.0000	0.0000
0.27	26/11/2023 14:00	0.0000	0.0000
0.27	26/11/2023 14:30	0.0000	0.0000
0.27	26/11/2023 15:00	0.0000	0.0000
0.27	26/11/2023 15:30	0.0000	0.0000
0.27	26/11/2023 16:00	0.0185	0.0185
0.27	26/11/2023 16:30	0.0002	0.0002
0.27	26/11/2023 17:00	0.0000	0.0000
0.27	26/11/2023 17:30	0.0000	0.0000
0.27	26/11/2023 18:00	0.0000	0.0000
0.27	26/11/2023 18:30	0.0472	0.0472
0.27	26/11/2023 19:00	0.0000	0.0000
0.27	26/11/2023 19:30	0.0000	0.0000
0.27	26/11/2023 20:00	0.0000	0.0000
0.27	26/11/2023 20:30	0.0000	0.0000
0.27	26/11/2023 21:00	0.0000	0.0000
0.27	26/11/2023 21:30	0.0000	0.0000
0.27	26/11/2023 22:00	0.0000	0.0000
0.27	26/11/2023 22:30	0.0000	0.0000
0.27	26/11/2023 23:00	0.0000	0.0000
0.27	26/11/2023 23:30	0.0000	0.0000
0.27	27/11/2023 0:00	0.0000	0.0000
Total		**27.5635**	**3.1523**

SAIDI Major Event Information	
Cause	Broke insulator (PIN) tracking arm burnt, faulty sectionaliser and tree through line.
Start Date	25/11/2023
Start Time	1:00 am
End Date	27/11/2023
End Time	12:00 am
SAIDI value of major event before replacement	27.5635
SAIDI value of major event	3.1523
Location of SAIDI major event	Te Reinga, Arakihi road, Waihua and Caves road
Main equipment involved in SAIDI major event	Broke insulator (PIN) tracking arm burnt, faulty sectionaliser and tree through line.
How Firstlight Network responded to the event	At Te Reinga, a fault at 1:45 a.m. indicated a broken conductor; patrols were delayed due to terrain and a destroyed bridge, with power restored by 10:15 a.m., and a cracked insulator fixed by 5:51 p.m. On Arakihi Road, adverse weather caused multiple feeder faults; a tree through the lines was reported and removed, with power restored by 6:02 p.m. Waihua experienced high winds and rain, leading to downed conductors, likely from a clash. Caves Road had multiple faults overnight due to weather, with power restored to 694 customers by 4:13 a.m. and fully restored by 4:40 p.m.
Mitigating factors that may have prevented or minimised the major event	At Te Reinga, it was discovered that the settings at sectionaliser W9859 were incorrect; it should have operated, affecting only 33 customers. The lack of a bridge at Te Reinga further delayed patrolling and access. On Arakihi Road, several feeder faults occurred on the same day, with worsening weather impacting response times. At Waihua, the fault near W170 was limited by the interconnection, affecting 269 customers until power was restored at 6:15 p.m. On Caves Road, an error on the mimic panel showed switches in the wrong state, delaying fault location and affecting an additional 34 ICPs. Correct switch settings could have tripped the Whangara feeder, impacting 585 ICPs. Multiple faults occurred over the weekend.
Steps taken to mitigate the risk of future major events	At Te Reinga, the settings for sectionaliser W9859 have been corrected, and we are awaiting the WDC and national government to replace the bridge. On Arakihi Road, FNL is installing a sectionaliser as part of a project, with completion expected by March 30, 2024. An investigation at Waihua is underway to assess installing two generators on the Raupunga and Frasertown feeders to enhance mutual support during faults. For Caves Road, FNL is exploring a new ADMS/OMS system that would have identified the switching/mimic error.

1/48th of the SAIDI unplanned boundary value	1/02/2024 to 3/02/2024		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	1/02/2024 22:00	0.0000	0.0000
0.27	1/02/2024 22:30	0.0000	0.0000
0.27	1/02/2024 23:00	0.0000	0.0000
0.27	1/02/2024 23:30	0.0000	0.0000
0.27	2/02/2024 0:00	0.0000	0.0000
0.27	2/02/2024 0:30	0.0000	0.0000
0.27	2/02/2024 1:00	0.0000	0.0000
0.27	2/02/2024 1:30	0.0000	0.0000
0.27	2/02/2024 2:00	0.0000	0.0000
0.27	2/02/2024 2:30	0.0000	0.0000
0.27	2/02/2024 3:00	0.0000	0.0000
0.27	2/02/2024 3:30	0.0000	0.0000
0.27	2/02/2024 4:00	0.0000	0.0000
0.27	2/02/2024 4:30	0.0000	0.0000
0.27	2/02/2024 5:00	0.0000	0.0000
0.27	2/02/2024 5:30	0.0000	0.0000
0.27	2/02/2024 6:00	0.0000	0.0000
0.27	2/02/2024 6:30	0.0000	0.0000
0.27	2/02/2024 7:00	0.0000	0.0000
0.27	2/02/2024 7:30	0.0000	0.0000
0.27	2/02/2024 8:00	0.0000	0.0000
0.27	2/02/2024 8:30	0.0000	0.0000
0.27	2/02/2024 9:00	0.0000	0.0000
0.27	2/02/2024 9:30	0.0000	0.0000
0.27	2/02/2024 10:00	0.0566	0.0566
0.27	2/02/2024 10:30	0.0000	0.0000
0.27	2/02/2024 11:00	0.0000	0.0000
0.27	2/02/2024 11:30	0.0000	0.0000
0.27	2/02/2024 12:00	0.0000	0.0000
0.27	2/02/2024 12:30	0.0000	0.0000
0.27	2/02/2024 13:00	0.0000	0.0000
0.27	2/02/2024 13:30	0.0000	0.0000
0.27	2/02/2024 14:00	0.0000	0.0000
0.27	2/02/2024 14:30	0.0000	0.0000
0.27	2/02/2024 15:00	0.3735	0.2729
0.27	2/02/2024 15:30	0.0000	0.0000
0.27	2/02/2024 16:00	0.0000	0.0000
0.27	2/02/2024 16:30	0.0000	0.0000

1/48th of the SAIDI unplanned boundary value	1/02/2024 to 3/02/2024		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	2/02/2024 17:00	0.0000	0.0000
0.27	2/02/2024 17:30	0.0000	0.0000
0.27	2/02/2024 18:00	0.0000	0.0000
0.27	2/02/2024 18:30	0.0000	0.0000
0.27	2/02/2024 19:00	0.0000	0.0000
0.27	2/02/2024 19:30	0.0000	0.0000
0.27	2/02/2024 20:00	6.1614	0.2729
0.27	2/02/2024 20:30	3.7257	0.2729
0.27	2/02/2024 21:00	1.9418	0.2729
0.27	2/02/2024 21:30	3.8812	0.2729
0.27	2/02/2024 22:00	1.3720	0.2729
0.27	2/02/2024 22:30	0.0000	0.0000
0.27	2/02/2024 23:00	4.2389	0.2729
0.27	2/02/2024 23:30	2.5432	0.2729
0.27	3/02/2024 0:00	0.0038	0.0038
0.27	3/02/2024 0:30	2.0264	0.2729
0.27	3/02/2024 1:00	2.0335	0.2729
0.27	3/02/2024 1:30	1.4948	0.2729
0.27	3/02/2024 2:00	0.0000	0.0000
0.27	3/02/2024 2:30	0.0000	0.0000
0.27	3/02/2024 3:00	0.0000	0.0000
0.27	3/02/2024 3:30	0.0000	0.0000
0.27	3/02/2024 4:00	0.0000	0.0000
0.27	3/02/2024 4:30	0.0000	0.0000
0.27	3/02/2024 5:00	0.0000	0.0000
0.27	3/02/2024 5:30	3.2258	0.2729
0.27	3/02/2024 6:00	0.0000	0.0000
0.27	3/02/2024 6:30	0.0000	0.0000
0.27	3/02/2024 7:00	0.0077	0.0077
0.27	3/02/2024 7:30	0.0000	0.0000
0.27	3/02/2024 8:00	0.0000	0.0000
0.27	3/02/2024 8:30	0.0996	0.0996
0.27	3/02/2024 9:00	0.0000	0.0000
0.27	3/02/2024 9:30	0.1157	0.1157
0.27	3/02/2024 10:00	0.0000	0.0000
0.27	3/02/2024 10:30	0.0000	0.0000
0.27	3/02/2024 11:00	0.0980	0.0980

1/48th of the SAIDI unplanned boundary value	1/02/2024 to 3/02/2024		
	Half hour commencing	Raw SAIDI value for Class C interruption	Normalised SAIDI value for Class C interruption
0.27	3/02/2024 11:30	0.0000	0.0000
0.27	3/02/2024 12:00	0.0000	0.0000
0.27	3/02/2024 12:30	0.0000	0.0000
0.27	3/02/2024 13:00	0.0000	0.0000
0.27	3/02/2024 13:30	0.0000	0.0000
0.27	3/02/2024 14:00	0.0000	0.0000
0.27	3/02/2024 14:30	0.0000	0.0000
0.27	3/02/2024 15:00	0.0000	0.0000
0.27	3/02/2024 15:30	0.0000	0.0000
0.27	3/02/2024 16:00	0.3082	0.2729
0.27	3/02/2024 16:30	0.0000	0.0000
0.27	3/02/2024 17:00	1.2577	0.2729
0.27	3/02/2024 17:30	0.0000	0.0000
0.27	3/02/2024 18:00	1.2749	0.2729
0.27	3/02/2024 18:30	0.0000	0.0000
0.27	3/02/2024 19:00	0.0000	0.0000
0.27	3/02/2024 19:30	0.0000	0.0000
0.27	3/02/2024 20:00	0.0000	0.0000
0.27	3/02/2024 20:30	0.0000	0.0000
0.27	3/02/2024 21:00	0.0000	0.0000
0.27	3/02/2024 21:30	0.0000	0.0000
0.27	3/02/2024 22:00	0.0000	0.0000
0.27	3/02/2024 22:30	0.0000	0.0000
0.27	3/02/2024 23:00	0.0000	0.0000
Total		**36.2406**	**4.4752**

SAIDI Major Event Information	
Cause	Adverse Weather
Start Date	1/02/2024
Start Time	10:00 pm
End Date	3/02/2024
End Time	11:00 pm
SAIDI value of major event before replacement	36.2406
SAIDI value of major event	4.4752
Location of SAIDI major event	Armstrong Road and Raukituri
Main equipment involved in SAIDI major event	On Friday, February 2, Recloser CB E863 on Armstrong Road tripped, reclosed, and locked out at 9:51 p.m. due to overcurrent. Located near the end of the 90 km Whatatutu feeder, which has 57 customers past it, Recloser E863 is part of the feeder serving a total of 251 customers. Also on the same day, the 11kV Ruakituri feeder tripped and locked out at 8:29 p.m. at Recloser W816 due to an earth fault. The Ruakituri feeder is a remote 115 km radial feeder serving 161 ICPs from Tuia Sub, with Recloser W816 at Ohuka (about a third from Tuia Sub) and two sectionalizers (W9860 and W9859) at Ruakituri (two-thirds from Tuia).
How Firstlight Network responded to the event	On Friday, February 4th, around 8:00 PM, high winds and rain hit the District, causing 11 feeder faults between 8:30 PM and 11:30 PM, affecting 800 customers. At Armstrong Road, the controller chose not to reclose the fault due to high fault probability, and a faultman discovered a broken pole and conductors the next day. Field switching restored power to 32 customers, but 25 remained without power until a line gang repaired the fault the following day, with all power restored by 10:13 AM on February 4th. In Ruakituri, SCADA flags indicated the fault was beyond sectionaliser W9860, and remote switching left 79 ICPs without power until patrols the next morning found poplar trees had fallen through the lines.
Mitigating factors that may have prevented or minimised the major event	The delay in restoring Armstrong Road over the weekend was caused by a combination of numerous faults and a controller oversight. On Friday, February 2nd, at 11:23 PM, Circuit Breaker W54 at Tuia Substation tripped and locked out due to overcurrent. This circuit breaker is crucial as it protects the feeder, so priority was given to addressing this fault before others.
Steps taken to mitigate the risk of future major events	Firstlight Network is investigating a transition to a new ADMS/OMS system for better fault management on Armstrong Road, while in Ruakituri, the trees responsible for the issue have been identified and were set for removal.

Table 22

Normalisation of unplanned SAIFI major events RY24			
SAIFI unplanned boundary value			0.1765
1/48th of the SAIFI unplanned boundary value	2/08/2023 to 4/08/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	2/08/2023 18:00	0.0000	0.0000
0.0037	2/08/2023 18:30	0.0000	0.0000
0.0037	2/08/2023 19:00	0.0000	0.0000
0.0037	2/08/2023 19:30	0.0000	0.0000
0.0037	2/08/2023 20:00	0.0002	0.0002
0.0037	2/08/2023 20:30	0.0000	0.0000
0.0037	2/08/2023 21:00	0.0000	0.0000
0.0037	2/08/2023 21:30	0.0000	0.0000
0.0037	2/08/2023 22:00	0.0000	0.0000
0.0037	2/08/2023 22:30	0.0000	0.0000
0.0037	2/08/2023 23:00	0.0000	0.0000
0.0037	2/08/2023 23:30	0.0000	0.0000
0.0037	3/08/2023 0:00	0.0000	0.0000
0.0037	3/08/2023 0:30	0.0000	0.0000
0.0037	3/08/2023 1:00	0.0000	0.0000
0.0037	3/08/2023 1:30	0.0000	0.0000
0.0037	3/08/2023 2:00	0.0000	0.0000
0.0037	3/08/2023 2:30	0.0000	0.0000
0.0037	3/08/2023 3:00	0.0000	0.0000
0.0037	3/08/2023 3:30	0.0008	0.0008
0.0037	3/08/2023 4:00	0.0000	0.0000
0.0037	3/08/2023 4:30	0.0000	0.0000
0.0037	3/08/2023 5:00	0.0000	0.0000
0.0037	3/08/2023 5:30	0.0000	0.0000
0.0037	3/08/2023 6:00	0.0000	0.0000
0.0037	3/08/2023 6:30	0.0000	0.0000
0.0037	3/08/2023 7:00	0.0000	0.0000
0.0037	3/08/2023 7:30	0.0000	0.0000
0.0037	3/08/2023 8:00	0.0000	0.0000
0.0037	3/08/2023 8:30	0.0000	0.0000
0.0037	3/08/2023 9:00	0.0002	0.0002
0.0037	3/08/2023 9:30	0.0000	0.0000
0.0037	3/08/2023 10:00	0.0000	0.0000
0.0037	3/08/2023 10:30	0.0002	0.0002
0.0037	3/08/2023 11:00	0.0000	0.0000
0.0037	3/08/2023 11:30	0.0000	0.0000
0.0037	3/08/2023 12:00	0.0005	0.0005
0.0037	3/08/2023 12:30	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	2/08/2023 to 4/08/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	3/08/2023 13:00	0.0000	0.0000
0.0037	3/08/2023 13:30	0.0000	0.0000
0.0037	3/08/2023 14:00	0.0000	0.0000
0.0037	3/08/2023 14:30	0.0000	0.0000
0.0037	3/08/2023 15:00	0.0000	0.0000
0.0037	3/08/2023 15:30	0.0045	0.0037
0.0037	3/08/2023 16:00	0.0474	0.0037
0.0037	3/08/2023 16:30	0.0000	0.0000
0.0037	3/08/2023 17:00	0.0000	0.0000
0.0037	3/08/2023 17:30	0.1252	0.0037
0.0037	3/08/2023 18:00	0.0000	0.0000
0.0037	3/08/2023 18:30	0.0000	0.0000
0.0037	3/08/2023 19:00	0.0000	0.0000
0.0037	3/08/2023 19:30	0.0000	0.0000
0.0037	3/08/2023 20:00	0.0000	0.0000
0.0037	3/08/2023 20:30	0.0000	0.0000
0.0037	3/08/2023 21:00	0.0000	0.0000
0.0037	3/08/2023 21:30	0.0000	0.0000
0.0037	3/08/2023 22:00	0.0000	0.0000
0.0037	3/08/2023 22:30	0.0000	0.0000
0.0037	3/08/2023 23:00	0.0000	0.0000
0.0037	3/08/2023 23:30	0.0000	0.0000
0.0037	4/08/2023 0:00	0.0000	0.0000
0.0037	4/08/2023 0:30	0.0000	0.0000
0.0037	4/08/2023 1:00	0.0000	0.0000
0.0037	4/08/2023 1:30	0.0000	0.0000
0.0037	4/08/2023 2:00	0.0000	0.0000
0.0037	4/08/2023 2:30	0.0000	0.0000
0.0037	4/08/2023 3:00	0.0000	0.0000
0.0037	4/08/2023 3:30	0.0000	0.0000
0.0037	4/08/2023 4:00	0.0000	0.0000
0.0037	4/08/2023 4:30	0.0000	0.0000
0.0037	4/08/2023 5:00	0.0000	0.0000
0.0037	4/08/2023 5:30	0.0000	0.0000
0.0037	4/08/2023 6:00	0.0000	0.0000
0.0037	4/08/2023 6:30	0.0000	0.0000
0.0037	4/08/2023 7:00	0.0000	0.0000
0.0037	4/08/2023 7:30	0.0000	0.0000
0.0037	4/08/2023 8:00	0.0000	0.0000
0.0037	4/08/2023 8:30	0.0000	0.0000
0.0037	4/08/2023 9:00	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	2/08/2023 to 4/08/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	4/08/2023 9:30	0.0000	0.0000
0.0037	4/08/2023 10:00	0.0000	0.0000
0.0037	4/08/2023 10:30	0.0000	0.0000
0.0037	4/08/2023 11:00	0.0000	0.0000
0.0037	4/08/2023 11:30	0.0000	0.0000
0.0037	4/08/2023 12:00	0.0000	0.0000
0.0037	4/08/2023 12:30	0.0000	0.0000
0.0037	4/08/2023 13:00	0.0000	0.0000
0.0037	4/08/2023 13:30	0.0000	0.0000
0.0037	4/08/2023 14:00	0.0000	0.0000
0.0037	4/08/2023 14:30	0.0000	0.0000
0.0037	4/08/2023 15:00	0.0000	0.0000
Total		**0.1789**	**0.0129**

SAIFI Major Event Information	
Cause	High winds caused an inrush that tripped Wairoa, and the generator couldn't handle the full load.
Start Date	2/08/2023
Start Time	6:00 pm
End Date	4/08/2023
End Time	3:00 pm
SAIFI value of major event before replacement	0.1789
SAIFI value of major event	0.0129
Location of SAIDI major event	Mahia- Nuhuka
Main equipment involved in SAIDI major event	33kV line Mahia
How Firstlight Network responded to the event	The original fault was not detected initially. When relivening as per procedure, an inrush voltage caused tripping at Wairoa Substation on the Nuhaka line (33kV). While high winds were initially thought to be the cause, further investigation revealed that a faulty insulator was responsible for the original fault.
Mitigating factors that may have prevented or minimised the major event	Multiple faults occurred on the network simultaneously, and the high load from cold weather meant that backup generation couldn't supply its full capacity.
Steps taken to mitigate the risk of future major events	The switching sequence for reclosing on this feeder has been updated to prevent the recurrence of the inrush voltage issue.

1/48th of the SAIFI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	1/09/2023 3:30	0.0000	0.0000
0.0037	1/09/2023 4:00	0.0000	0.0000
0.0037	1/09/2023 4:30	0.0000	0.0000
0.0037	1/09/2023 5:00	0.0000	0.0000
0.0037	1/09/2023 5:30	0.0000	0.0000
0.0037	1/09/2023 6:00	0.0000	0.0000
0.0037	1/09/2023 6:30	0.0000	0.0000
0.0037	1/09/2023 7:00	0.0005	0.0005
0.0037	1/09/2023 7:30	0.0000	0.0000
0.0037	1/09/2023 8:00	0.0000	0.0000
0.0037	1/09/2023 8:30	0.0000	0.0000
0.0037	1/09/2023 9:00	0.0000	0.0000
0.0037	1/09/2023 9:30	0.0000	0.0000
0.0037	1/09/2023 10:00	0.0000	0.0000
0.0037	1/09/2023 10:30	0.0000	0.0000
0.0037	1/09/2023 11:00	0.0000	0.0000
0.0037	1/09/2023 11:30	0.0000	0.0000
0.0037	1/09/2023 12:00	0.0000	0.0000
0.0037	1/09/2023 12:30	0.0000	0.0000
0.0037	1/09/2023 13:00	0.0000	0.0000
0.0037	1/09/2023 13:30	0.0000	0.0000
0.0037	1/09/2023 14:00	0.0000	0.0000
0.0037	1/09/2023 14:30	0.0000	0.0000
0.0037	1/09/2023 15:00	0.0000	0.0000
0.0037	1/09/2023 15:30	0.0000	0.0000
0.0037	1/09/2023 16:00	0.0000	0.0000
0.0037	1/09/2023 16:30	0.0000	0.0000
0.0037	1/09/2023 17:00	0.0000	0.0000
0.0037	1/09/2023 17:30	0.0000	0.0000
0.0037	1/09/2023 18:00	0.0000	0.0000
0.0037	1/09/2023 18:30	0.0000	0.0000
0.0037	1/09/2023 19:00	0.0000	0.0000
0.0037	1/09/2023 19:30	0.0000	0.0000
0.0037	1/09/2023 20:00	0.0000	0.0000
0.0037	1/09/2023 20:30	0.0000	0.0000
0.0037	1/09/2023 21:00	0.0000	0.0000
0.0037	1/09/2023 21:30	0.0000	0.0000
0.0037	1/09/2023 22:00	0.0000	0.0000
0.0037	1/09/2023 22:30	0.0000	0.0000
0.0037	1/09/2023 23:00	0.0000	0.0000
0.0037	1/09/2023 23:30	0.0000	0.0000
0.0037	2/09/2023 0:00	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	2/09/2023 0:30	0.0000	0.0000
0.0037	2/09/2023 1:00	0.0000	0.0000
0.0037	2/09/2023 1:30	0.0000	0.0000
0.0037	2/09/2023 2:00	0.0000	0.0000
0.0037	2/09/2023 2:30	0.0000	0.0000
0.0037	2/09/2023 3:00	0.1801	0.0037
0.0037	2/09/2023 3:30	0.0000	0.0000
0.0037	2/09/2023 4:00	0.0000	0.0000
0.0037	2/09/2023 4:30	0.0000	0.0000
0.0037	2/09/2023 5:00	0.0000	0.0000
0.0037	2/09/2023 5:30	0.0000	0.0000
0.0037	2/09/2023 6:00	0.0000	0.0000
0.0037	2/09/2023 6:30	0.0000	0.0000
0.0037	2/09/2023 7:00	0.0000	0.0000
0.0037	2/09/2023 7:30	0.0000	0.0000
0.0037	2/09/2023 8:00	0.0000	0.0000
0.0037	2/09/2023 8:30	0.0000	0.0000
0.0037	2/09/2023 9:00	0.0000	0.0000
0.0037	2/09/2023 9:30	0.0000	0.0000
0.0037	2/09/2023 10:00	0.0000	0.0000
0.0037	2/09/2023 10:30	0.0000	0.0000
0.0037	2/09/2023 11:00	0.0000	0.0000
0.0037	2/09/2023 11:30	0.0000	0.0000
0.0037	2/09/2023 12:00	0.0000	0.0000
0.0037	2/09/2023 12:30	0.0000	0.0000
0.0037	2/09/2023 13:00	0.0000	0.0000
0.0037	2/09/2023 13:30	0.0000	0.0000
0.0037	2/09/2023 14:00	0.0000	0.0000
0.0037	2/09/2023 14:30	0.0000	0.0000
0.0037	2/09/2023 15:00	0.0000	0.0000
0.0037	2/09/2023 15:30	0.0000	0.0000
0.0037	2/09/2023 16:00	0.0000	0.0000
0.0037	2/09/2023 16:30	0.0000	0.0000
0.0037	2/09/2023 17:00	0.0000	0.0000
0.0037	2/09/2023 17:30	0.0000	0.0000
0.0037	2/09/2023 18:00	0.0000	0.0000
0.0037	2/09/2023 18:30	0.0006	0.0006
0.0037	2/09/2023 19:00	0.0000	0.0000
0.0037	2/09/2023 19:30	0.0000	0.0000
0.0037	2/09/2023 20:00	0.0000	0.0000
0.0037	2/09/2023 20:30	0.0000	0.0000
0.0037	2/09/2023 21:00	0.0000	0.0000
0.0037	2/09/2023 21:30	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	1/09/2023 to 3/09/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	2/09/2023 22:00	0.0000	0.0000
0.0037	2/09/2023 22:30	0.0000	0.0000
0.0037	2/09/2023 23:00	0.0000	0.0000
0.0037	2/09/2023 23:30	0.0000	0.0000
0.0037	3/09/2023 0:00	0.0000	0.0000
0.0037	3/09/2023 0:30	0.0000	0.0000
0.0037	3/09/2023 1:00	0.0000	0.0000
0.0037	3/09/2023 1:30	0.0000	0.0000
0.0037	3/09/2023 2:00	0.0000	0.0000
0.0037	3/09/2023 2:30	0.0000	0.0000
Total		**0.1812**	**0.0048**

SAIFI Major Event Information	
Cause	A 50kV trip with a 2000 AMP overcurrent fault was detected, but the fault could not be found.
Start Date	1/09/2023
Start Time	3:30 am
End Date	3/09/2023
End Time	2:30 am
SAIFI value of major event before replacement	0.1812
SAIFI value of major event	0.0048
Location of SAIDI major event	Gisborne Sub to Makaraka Sub
Main equipment involved in SAIDI major event	The 50kV Line Gis-Makaraka starts at CB182 at Gisborne Sub, traverses across country to Ormond Road, then down Cameron Road, across the cemetery, and ends at Makaraka Sub, covering a line length of 7 km. This feeder supplies Makaraka Sub (2830 customers), which in turn supplies JNL Sub (1 customer) and Parkinson Sub (1842 customers). The line tripped on an overcurrent earth fault with an indication of 2000 amps fault current on Saturday, September 2, at 3:24 a.m.
How Firstlight Network responded to the event	As there is additional protection at Makaraka Sub and the line is part of a ring, the controller performed remote switching to restore power to JNL Sub and Parkinson Sub (1,843 ICPs) at 4:00 p.m. A faultsman was dispatched to Makaraka Sub, which is 10 minutes out of town. The tripped line was isolated at Makaraka Sub and backfed from Parkinson Sub, bringing on the remaining 2,830 ICPs at 5:03 a.m. The line was then patrolled, but no fault cause was found.
Mitigating factors that may have prevented or minimised the major event	FNL does not operate a 24/7 manned control room. After hours and on weekends, coverage is provided by an after-hours Duty Controller who works from home. In this instance, the Duty Controller had to come into the office Control Room to carry out the switching.
Steps taken to mitigate the risk of future major events	This feeder is patrolled as part of the sub-transmission maintenance cycle. Following Cyclone Gabrielle, slips brought trees close to the line, though they were not the cause of this fault. These offending trees have been removed. We are currently proposing the installation of a new 50/11kV substation at the hospital to provide better protection and quicker restoration switching. Additionally, fault indicators are being installed at Makaraka Sub.

1/48th of the SAIFI unplanned boundary value	10/11/2023 to 12/11/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	10/11/2023 14:00	0.0000	0.0000
0.0037	10/11/2023 14:30	0.0000	0.0000
0.0037	10/11/2023 15:00	0.0000	0.0000
0.0037	10/11/2023 15:30	0.0000	0.0000
0.0037	10/11/2023 16:00	0.0000	0.0000
0.0037	10/11/2023 16:30	0.0000	0.0000
0.0037	10/11/2023 17:00	0.0000	0.0000
0.0037	10/11/2023 17:30	0.0000	0.0000
0.0037	10/11/2023 18:00	0.0000	0.0000
0.0037	10/11/2023 18:30	0.0000	0.0000
0.0037	10/11/2023 19:00	0.0000	0.0000
0.0037	10/11/2023 19:30	0.0000	0.0000
0.0037	10/11/2023 20:00	0.0000	0.0000
0.0037	10/11/2023 20:30	0.0000	0.0000
0.0037	10/11/2023 21:00	0.0000	0.0000
0.0037	10/11/2023 21:30	0.0000	0.0000
0.0037	10/11/2023 22:00	0.0000	0.0000
0.0037	10/11/2023 22:30	0.0000	0.0000
0.0037	10/11/2023 23:00	0.0000	0.0000
0.0037	10/11/2023 23:30	0.0000	0.0000
0.0037	11/11/2023 0:00	0.0000	0.0000
0.0037	11/11/2023 0:30	0.0000	0.0000
0.0037	11/11/2023 1:00	0.0000	0.0000
0.0037	11/11/2023 1:30	0.0000	0.0000
0.0037	11/11/2023 2:00	0.0000	0.0000
0.0037	11/11/2023 2:30	0.0000	0.0000
0.0037	11/11/2023 3:00	0.0000	0.0000
0.0037	11/11/2023 3:30	0.0000	0.0000
0.0037	11/11/2023 4:00	0.0000	0.0000
0.0037	11/11/2023 4:30	0.0000	0.0000
0.0037	11/11/2023 5:00	0.0000	0.0000
0.0037	11/11/2023 5:30	0.0000	0.0000
0.0037	11/11/2023 6:00	0.0000	0.0000
0.0037	11/11/2023 6:30	0.0000	0.0000
0.0037	11/11/2023 7:00	0.0000	0.0000
0.0037	11/11/2023 7:30	0.0000	0.0000
0.0037	11/11/2023 8:00	0.0000	0.0000
0.0037	11/11/2023 8:30	0.0000	0.0000
0.0037	11/11/2023 9:00	0.0000	0.0000
0.0037	11/11/2023 9:30	0.0000	0.0000
0.0037	11/11/2023 10:00	0.0000	0.0000
0.0037	11/11/2023 10:30	0.0000	0.0000
0.0037	11/11/2023 11:00	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	10/11/2023 to 12/11/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	11/11/2023 11:30	0.0000	0.0000
0.0037	11/11/2023 12:00	0.0000	0.0000
0.0037	11/11/2023 12:30	0.0000	0.0000
0.0037	11/11/2023 13:00	0.0000	0.0000
0.0037	11/11/2023 13:30	0.2801	0.0037
0.0037	11/11/2023 14:00	0.0000	0.0000
0.0037	11/11/2023 14:30	0.0000	0.0000
0.0037	11/11/2023 15:00	0.0000	0.0000
0.0037	11/11/2023 15:30	0.0000	0.0000
0.0037	11/11/2023 16:00	0.0000	0.0000
0.0037	11/11/2023 16:30	0.0000	0.0000
0.0037	11/11/2023 17:00	0.0000	0.0000
0.0037	11/11/2023 17:30	0.0000	0.0000
0.0037	11/11/2023 18:00	0.0000	0.0000
0.0037	11/11/2023 18:30	0.0000	0.0000
0.0037	11/11/2023 19:00	0.0000	0.0000
0.0037	11/11/2023 19:30	0.0000	0.0000
0.0037	11/11/2023 20:00	0.0000	0.0000
0.0037	11/11/2023 20:30	0.0000	0.0000
0.0037	11/11/2023 21:00	0.0000	0.0000
0.0037	11/11/2023 21:30	0.0000	0.0000
0.0037	11/11/2023 22:00	0.0000	0.0000
0.0037	11/11/2023 22:30	0.0000	0.0000
0.0037	11/11/2023 23:00	0.0000	0.0000
0.0037	11/11/2023 23:30	0.0000	0.0000
0.0037	12/11/2023 0:00	0.0000	0.0000
0.0037	12/11/2023 0:30	0.0225	0.0037
0.0037	12/11/2023 1:00	0.0000	0.0000
0.0037	12/11/2023 1:30	0.0000	0.0000
0.0037	12/11/2023 2:00	0.0000	0.0000
0.0037	12/11/2023 2:30	0.0000	0.0000
0.0037	12/11/2023 3:00	0.0000	0.0000
0.0037	12/11/2023 3:30	0.0000	0.0000
0.0037	12/11/2023 4:00	0.0000	0.0000
0.0037	12/11/2023 4:30	0.0000	0.0000
0.0037	12/11/2023 5:00	0.0000	0.0000
0.0037	12/11/2023 5:30	0.0000	0.0000
0.0037	12/11/2023 6:00	0.0000	0.0000
0.0037	12/11/2023 6:30	0.0000	0.0000
0.0037	12/11/2023 7:00	0.0000	0.0000
0.0037	12/11/2023 7:30	0.0000	0.0000
0.0037	12/11/2023 8:00	0.0000	0.0000
0.0037	12/11/2023 8:30	0.0000	0.0000
0.0037	12/11/2023 9:00	0.0000	0.0000

1/48th of the SAIFI unplanned boundary value	10/11/2023 to 12/11/2023		
	Half hour commencing	Raw SAIFI value for Class C interruption	Normalised SAIFI value for Class C interruption
0.0037	12/11/2023 9:30	0.0000	0.0000
0.0037	12/11/2023 10:00	0.0000	0.0000
0.0037	12/11/2023 10:30	0.0000	0.0000
0.0037	12/11/2023 11:00	0.0000	0.0000
0.0037	12/11/2023 11:30	0.0000	0.0000
0.0037	12/11/2023 12:00	0.0000	0.0000
0.0037	12/11/2023 12:30	0.0000	0.0000
0.0037	12/11/2023 13:00	0.0000	0.0000
Total		**0.3026**	**0.0074**

SAIFI Major Event Information	
Cause	Third Party Interference
Start Date	10/11/2023
Start Time	2:00 pm
End Date	12/11/2023
End Time	1:00 pm
SAIFI value of major event before replacement	0.3026
SAIFI value of major event	0.0074
Location of SAIFI major event	All of Carnarvon and port subs
Main equipment involved in SAIDI major event	50kV Line from Gisborne Substation to Carnarvon Street Substation Circuit Breaker 82 at Gisborne Substation tripped and locked out due to overcurrent. This feeder supplies power to both Carnarvon Street Substation (4538 customers) and Port Substation (2731 customers), all of which are located within Gisborne City.
How Firstlight Network responded to the event	CB 82 at Gisborne Substation tripped due to overcurrent, affecting power to Carnarvon Street and Port Substations. The afterhours controller arrived within 10 minutes, and since the fault was at the start of the feeder, power to Port Substation was restored via Delatour Road Feeder with a 17-minute outage. A public report of a flash in Stanley led to the discovery of scorch marks on the conductor. Power to Carnarvon Street Substation was restored after a 33-minute outage, likely caused by an object thrown into the line.
Mitigating factors that may have prevented or minimised the major event	FNL does not operate a 24/7 manned Control Room. Instead, after-hours and weekends are managed by Duty Controllers working from home. However, in this instance, the Duty Controller needed to come into the office Control Room to perform the switching operations.
Steps taken to mitigate the risk of future major events	We have upgraded the laptops used by the Controllers for after-hours work, which could allow for more switching to be performed from home and thereby reduce outage times. Additionally, a number of fault locators are being installed.

We, Mark Adrian Ratcliffe and Fiona Ann Oliver, being directors of Firstlight Network Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached Annual Compliance Statement of Firstlight Network Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2020* has been prepared in accordance with all relevant requirements.

Director

Director

Date 29 August 2024

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

Independent Assurance Report

To the Directors of Firstlight Network Limited

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 Firstlight Network Limited (the "Company") 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 2024.

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 Company's accounting and other records, and has been sourced, where appropriate, from its financial and non-financial systems; and
- the Company 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 2024.

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 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.

Directors's Responsibilities

The Directors are responsible on behalf of the Company 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 Company'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 Company. Our firm carries out other services for the Company in the areas of compliance with the Electricity Distribution Information Disclosure Determination 2012, independent appraiser of related party transactions, other assurance around compliance with Commerce Act requirements and our capacity as auditors. The provision of these other services has not impaired our independence.

Assurance Practitioner's responsibilities
Our responsibility is to express an opinion on whether the Company has complied, in all material respects, with clause 11.5(e) and schedule 8(1)(b)(vi) and 8(1)(c) of the Determination and report our opinion to you on whether:

- as far as appears from our examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from the Company'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 2024, has been prepared, in all material respects, 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 Company has complied, in all material respects, with theDetermination, in preparing the Annual Compliance Statement for the assessment period ended 31 March 2024. 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 14 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 13 and 21 to 51 of the Annual Compliance Statement.

An assurance engagement to report on the Company'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 Directors in accordance with Clause 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 Directors of the Company, as a body, or for any purpose other than that for which it was prepared.

PricewaterhouseCoopers.

Chartered Accountants
30 August 2024

Christchurch, New Zealand