Electricity Distribution Services

2025 Annual Compliance Statement

For the assessment period
1 April 2024 - 31 March 2025

Pursuant to:

Electricity Distribution Services Default Price-Quality Path Determination 2020 (20 May 2020)

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1. INTRODUCTION

1.1 Background

Vector Limited ("Vector") owns and operates the electricity distribution network in the greater Auckland region. Vector manages more than 19,700 kms of overhead lines and underground cables, delivering power to over 630,000 homes and businesses throughout the wider Auckland region from Wellsford to Papakura.

Vector is subject to price-quality regulation under Part 4 of the Commerce Act 1986. The Commerce Commission (the Commission) has set a Default Price-Quality Path (DPP) which applies to Vector from 1 April 2020.

The 2025 assessment period is therefore the fifth and final assessment period of the Electricity Distribution Services Default Price-Quality Path Determination 2020 ("the Determination")[1] and covers the 12 months to 31 March 2025.

1.2 Statement of compliance

Vector's annual compliance statement ("the Statement") is prepared in accordance with the requirements of clause 11.4 of the Determination.

As required by clause 11.5(a) of the Determination, the Statement provides Vector's wash-up amount and quality incentive adjustment calculation in respect of clause 8.6 and Schedule 4 of the Determination and confirms Vector's compliance with the quality standards in clause 9 of the Determination for the 2025 assessment period.

As required by clause 11.5(c) of the Determination, Vector confirms that it has not entered into any agreement with another Electricity Distribution Business ("EDB") or Transpower for an amalgamation, merger, major transaction or transfer in the 2025 assessment period.

This Statement was approved for issue on 22 August 2025 and was published by 31 August 2025 in accordance with the Determination. In this Statement, references to Vector relate only to Vector's electricity distribution business.

1.3 Disclaimer

The pricing quantities information contained in this Statement is accurate at the time of preparation, 7 May 2025.

[1] Available at https://comcom.govt.nz/__data/assets/pdf_file/0025/216862/Electricity-distribution-services-default-price-quality-path-determination-2020-consolidated-20-May-2020-20-May-2020.pdf

The information contained in this Statement has been prepared for the express purpose of complying with the requirements of clause 11.4 of the Determination. The Statement has not been prepared for any other purpose. Vector expressly disclaims any liability to any party who may rely on this Statement for any other purpose.

For presentation purposes, some numbers in this Statement have been rounded. In most cases calculations are based on more detailed numbers. This may cause small discrepancies or rounding inconsistencies when aggregating some of the information presented in this Statement. These discrepancies do not affect the overall compliance calculations which are based on the more detailed information.

2. WASH-UP AMOUNT

2.1 Wash-up amount calculation

As required by clauses 11.4 and 8.6 of the Determination, Vector must calculate the wash-up amount for each assessment period using the methodology specified in Schedule 1.6 of the Determination. For the 2025 assessment period the wash-up amount is $54 million. How the wash-up amount was calculated is detailed below in Table 1 and the different components of the calculation are detailed in sections 2.2 to 2.4.

Table 1: Wash-up amount (WAU) 2025		
Formula: $WAU_{2025} = AAR_{2025} - AR_{2025} - RV_{2025}$		
Component	**Description**	**Value ($000)**
AAR_{2025}	Actual allowable revenue 2025 [2]	**763,867**
- AR_{2025}	Actual revenue 2025 [3]	(709,463)
- RV_{2025}	Revenue foregone 2025 [4]	-
WUA_{2025}	**Wash-up amount 2025**	**54,404**

2.2 Actual allowable revenue

Vector's actual allowable revenue for the fifth assessment period (detailed below in Table 2) has been determined in line with the formula from paragraph 2 (c) of Schedule 1.6 of the Determination.

Table 2: Actual allowable revenue (AAR) 2025		
Formula: $AAR_{2025} = ANAR_{2025} + APRC_{2025} + RWA_{2025}$		
Component	**Description**	**Value ($000)**
$ANAR_{2025}$	Actual net allowable revenue 2025 [5]	472,369
$APRC_{2025}$	Actual pass-through costs and recoverable costs 2025 [6]	223,149
RWA_{2025}	Revenue wash-up draw down amount [7]	68,349
AAR_{2025}	**Actual allowable revenue 2025**	**763,867**

2 Details of actual allowable revenue 2025 is set out in section 2.2.
3 Details of actual revenue 2025 is set out in section2.3.
4 Details of forgone revenue 2025 is set out in section 2.4.
5 Details of actual net allowable revenue 2025 is set out in section 2.2.1.
6 Details of actual pass-through costs and recoverable costs 2025 are included in section 2.2.2.
7 The revenue wash-up draw down amount 2025 is set out in section 2.2.3.

2.2.1 Actual net allowable revenue

To present how the actual net allowable revenue is derived we provide the calculation of its different elements in Table 3.

Table 3: Actual net allowable revenue (ANAR) 2025		
Formula: $ANAR_{2025} = ANAR_{2024} \times (1 + \Delta CPI_{2025}) \times (1 - X)$		
Component	**Description**	**Value ($000)**
$ANAR_{2024}$	Actual net allowable revenue 2024 [8]	460,601
ΔCPI_{2025}	Inflated by consumer price index 2025 (ΔCPI_{2025} = 2.5549%) [9]	11,768
X	Annual rate of change (X = 0%) [10]	-
$ANAR_{2025}$	**Actual net allowable revenue 2025**	**472,369**

One of the key items of the calculation of the actual net allowable revenue is the derived change in CPI for the 2025 assessment period. We provide the details of this calculation in Table 4 below.

Table 4: Consumer price index (CPI) 2025			
Formula: $\Delta CPI_{2024} = \left(\frac{CPI_{Jun,2024} + CPI_{Sep,2024} + CPI_{Dec,2024} + CPI_{Mar,2025}}{CPI_{Jun,2023} + CPI_{Sep,2023} + CPI_{Dec,2023} + CPI_{Mar,2024}} \right) - 1$			
Component	**Value**	**Component**	**Value**
$CPI_{Jun,2024}$	1272.0	$CPI_{Jun,2023}$	1,231
$CPI_{Sep,2024}$	1280.0	$CPI_{Sep,2023}$	1,253
$CPI_{Dec,2024}$	1287.0	$CPI_{Dec,2023}$	1,259
$CPI_{Mar,2025}$	1299.0	$CPI_{Mar,2024}$	1,267
Total	**5,138**	**Total**	**5,010**
ΔCPI_{2025}	(5,138 / 5,010) - 1		**0.025549**

2.2.2 Actual pass-through and recoverable costs

Actual allowable revenue includes actual pass-through and recoverable costs excluding any recoverable cost that is a revenue wash-up draw down amount. The pass-through and recoverable costs have been determined in accordance with the Electricity Distribution Services Input Methodologies Determination 2012, ("Input Methodologies").[11] Table 5 summarises the pass-

[8] Actual net allowable revenue for the 2024 assessment period was the amount calculated in Vector's 2024 Electricity Compliance Statement which can be found here on Vector's website https://blob-static.vector.co.nz/blob/vector/media/vector-2024/vector-annual-compliance-statement-2024.pdf

[9] Details of ΔCPI_{2025} are included in Table 4.

[10] The annual rate of change generally applicable to all non-exempt EDBs for the DPP regulatory period is 0% as per Schedule 1.2 of the Determination.

[11] Current version when preparing the Statement was consolidated 20 May 2020, available at https://comcom.govt.nz/regulated-industries/input-methodologies/electricity-distribution-ims, Appendix part 4, clauses 3.1.2 and 3.1.3.

through and recoverable costs used to set prices for the 2025 assessment period. All other types of pass-through and recoverable costs not included below are not applicable to Vector.

Table 5: Actual pass-through costs and recoverable costs (APRC) 2025		
Cost type	**Description**	**Value ($000)**
Pass-through costs	Local Authority rates	19,905
	Commerce Act levy	2,416
	Electricity Authority levy	1,971
	Utility Disputes levy	452
	Total pass-through costs	**24,744**
Recoverable costs	Incremental rolling incentive scheme incentive adjustment [12]	5,164
	Transpower electricity lines service charges	185,805
	Transpower new investment charges	7,235
	Quality incentive adjustment [13]	(1,650)
	Capex wash-up adjustment [14]	377
	Fire and Emergency New Zealand levy [15]	747
	Innovation project allowance[16]	727
	Total recoverable costs	**198,405**
Actual pass-through costs and recoverable costs excluding revenue wash-up draw down amount 2025		**223,149**

2.2.3 Revenue wash-up draw down amount

The 'revenue wash-up draw down amount' is the 'opening wash-up account balance' calculated in accordance with Schedule 1.7 of the Determination.

The opening wash-up account balance was zero for the first and second assessments periods, and for the third and subsequent assessment periods it is the closing wash-up account balance of the previous assessment period, which in turn is related to the wash-up amount for the previous assessment period. Therefore, the revenue wash-up draw down amount for the 2025 assessment period is derived from the wash-up amount from the 2023 assessment period.

The wash-up amount for the 2023 assessment period has been recalculated for the additional information available at the end of the 2024 assessment period, predominantly being quantity data,

[12] The incremental rolling incentive (IRIS) adjustment is specified in Schedule 2.2 of the Determination.
[13] The quality incentive adjustment is the amount calculated in Vector's 2023 Electricity Compliance Statement which can be found here on Vector's website https://www.vector.co.nz/about-us/regulatory/disclosures-electricity/price-quality-path
[14] The capex wash-up adjustment is specified in clause 3.1.3 of the Input Methodologies.
[15] The Fire and Emergency New Zealand levy is any levy payable to Fire and Emergency New Zealand under the Fire and Emergency New Zealand Act 2017.
[16] Innovation project allowance under the default price-quality path 2020-2025, approved by the Commission in July 2025

Qi,2023. This follows the similar approach to the recalculation of the pass-through balance under clause 8.6(a) of the Electricity Distribution Services Default Price-Quality Path Determination 2015.

Table 6: Opening wash-up account balance 2025			
Formula: $OWAB_{2025} = (WUA_{2023} - VUAF_{2023}) \times (1+ WACC)^2$			
Component	**Description**	**2023 Value ($000)**	**2024 Value ($000)**
WUA_{2023}	Wash-up amount 2023 [17]	62,845	62,914
$- VUAF_{2023}$	Voluntary undercharging amount foregone 2023 [18]	-	-
$(WUA_{2023} - VUAF_{2023}) \times WACC^2$	67th percentile estimate of post-tax WACC (4.23%) [19]	5,428	5,435
$OWAB_{2025}$	Opening wash-up account balance 2025	**68,273**	**68,349**

2.3 Actual revenue

The actual revenue for the 2025 assessment period has been calculated in accordance with the definition in the Determination and is provided in Table 7 below.

Table 7: Actual revenue 2025		
Formula: $AR_{2025} = ARFP_{2025} + ORI_{2025}$		
Component	**Description**	**Value ($000)**
$ARFP_{2025}$	Actual revenue from prices 2025 [20]	722,999
ORI_{2025}	Other regulated income 2025 [21]	(13,536)
AR_{2025}	**Actual revenue 2025**	709,463

2.4 Revenue foregone

The revenue foregone for the 2025 assessment period is the actual net allowable revenue multiplied by the revenue reduction percentage less 20%. As specified in the Determination if the revenue reduction percentage is not greater than 20%, then the revenue foregone is zero. Table 8 below

[17] Wash-up account 2023 is from the 2024 Annual Compliance Statement, available at https://www.vector.co.nz/about-us/regulatory/disclosures-electricity/price-quality-path.

[18] Details of the voluntary undercharging amount forgone are from the 2023 Annual Compliance Statement, available at https://www.vector.co.nz/about-us/regulatory/disclosures-electricity/price-quality-path.

[19] 67th percentile estimate of post-tax WACC as defined in clause 4.2 of the Determination.

[20] Details of actual revenue from prices 2025, calculated as $\sum Pi_{,2025}\ Qi_{,2025}$ (prices 2025 x actual quantities 2025) is included in Appendix 1, tables 26, 28, 30 and 32.

[21] Other regulated income has the meaning given in the Input Methodologies, "forecast income associated with the supply of electricity distribution services, including gains and losses on disposed assets but excluding income through prices; investment-related income; capital contributions; or vested assets." The only other regulated income for the 2025 assessment period is the loss on asset disposals, which is from the Electricity Information Disclosure 2025, available at https://www.vector.co.nz/about-us/regulatory/disclosures-electricity/financial-and-network-information.

shows Vector's revenue reduction percentage is -1.84%, which is less than 20%, therefore Vector's revenue foregone is zero for the 2025 assessment period.

Table 8: Revenue reduction percentage			
Formula: $RRP_{2025} = 1 - ARFP_{2025}/FRFP_{2025}$			
Component	**Description**	**Value ($000)**	**Result**
$ARFP_{2025}$	Actual revenue from prices 2025	722,999	
$FRFP_{2025}$	Forecast revenue from prices 2025 [22]	709,946	
RRP_{2025}	Revenue reduction percentage 2025		-1.84%
Revenue reduction percentage > 20%?			**No**
Revenue forgone (RV_{2025})		**-**	

2.5 2024 wash-up amount recalculation

The wash-up amount for the 2024 assessment period has been recalculated due to the availability of additional information at the end of the 2025 assessment period. This recalculation includes the updated quantity data, Qi,2024 and changes in pass-through and recoverable costs as detailed in Table 11.

This follows a similar approach to the recalculation of the pass-through balance under clause 8.6(a) of the Electricity Distribution Services Default Price-Quality Path Determination 2015 [23]. The calculation is detailed below in Tables 9-13.

Table 9: Wash-up amount (WAU) 2024			
Formula: $WAU_{2024} = AAR_{2024} - AR_{2024} - RV_{2024}$			
Component	**Description**	**2024 Value ($000)**	**2025 Value ($000)**
AAR_{2024}	Actual allowable revenue 2024 [24]	703,809	704,167
- AR_{2024}	Actual revenue 2024 [25]	(646,536)	(646,150)
- RV_{2024}	Revenue foregone 2024 [26]	-	-
WUA_{2024}	**Wash-up amount 2024**	**57,273**	**58,017**

[22] Forecast revenue from prices is from the 2025 Price Setting Compliance Statement, available at https://blob-static.vector.co.nz/blob/vector/media/vector-2023/electricity-distribution-price-setting-compliance-statement-2025.pdf

[23] Available at https://blob-static.vector.co.nz/blob/vector/media/vector-2024/electricity-distribution-price-setting-compliance-statement-2025.pdf. It provided an approach for EDBs to recalculate the pass-through balances if any additional information became available. The DPP3 determination is silent on this matter.

[24] Actual allowable revenue 2024 is from the 2024 Annual Compliance Statement, available at https://www.vector.co.nz/about-us/regulatory/disclosures-electricity/price-quality-path.

[25] Details of 2025 value for actual revenue 2024 is set out in Table 12. The 2024 value for actual revenue 2024 is from the 2024 Annual Compliance Statement.

[26] Details of forgone revenue is set out in Table 13.

The wash-up amount for the 2024 assessment period is recalculated to be $58 million.

Table 10: Actual allowable revenue (AAR) 2024			
Formula: $AAR_{2024} = ANAR_{2024} + APRC_{2024} + RWA_{2024}$			
Component	**Description**	**2024 Value ($000)**	**2025 Value ($000)**
$ANAR_{2024}$	Actual net allowable revenue 2024	460,601	460,601
$APRC_{2024}$	Actual pass-through costs and recoverable costs 2024	214,213	214,571
RWA_{2024}	Revenue wash-up draw down amount	28,995	28,995
AAR_{2024}	**Actual allowable revenue 2024**	**703,809**	**704,167**

Table 11: Actual pass-through costs and recoverable costs (APRC) 2024			
Cost type	**Description**	**2024 Value ($000)**	**2025 Value ($000)**
Pass-through costs	Local Authority rates	18,099	18,099
	Commerce Act levy	1,881	1,881
	Electricity Authority levy	1,720	1,720
	Utility Disputes levy	419	419
	Total pass-through costs	**22,119**	**22,119**
Recoverable costs	Incremental rolling incentive scheme incentive adjustment	2,924	2,924
	Transpower electricity lines service charges	179,991	180,349[27]
	Transpower new investment charges	7,680	7,680
	Quality incentive adjustment	(355)	(355)
	Capex wash-up adjustment	366	366
	Fire and Emergency New Zealand levy	729	729
	Innovation project allowance	759	759
	Total recoverable costs	**192,094**	**192,452**
Actual pass-through costs and recoverable costs excluding revenue wash-up drawn-down amount 2024		**214,213**	**214,571**

[27] Updated to reflect the Transpower adjustment events relating to PY2024 required under Transmission Pricing Methodology. Under the clause 75 of schedule 12.4 of the Electricity Industry Participation Code, Transpower can adjust relevant transmission charges from the date of an adjustment event.

Table 12: Actual revenue 2024			
Formula: AR_{2024} = $ARFP_{2024}$+ ORI_{2024}			
Component	**Description**	**2024 Value ($000)**	**2025 Value ($000)**
$ARFP_{2024}$	Actual revenue from prices 2024 [28]	662,183	661,797
ORI_{2024}	Other regulated income 2024 [29]	(15,647)	(15,647)
AR_{2024}	**Actual revenue 2024**	**646,536**	**646,150**

Table 13: Revenue reduction percentage 2024					
Formula: RRP_{2024} = 1 - $ARFP_{2024}$/$FRFP_{2024}$					
Component	**Description**	**2024 Value ($000)**	**2024 Result**	**2025 Value ($000)**	**2025 Result**
$ARFP_{2024}$	Actual revenue from prices 2024	662,183		661,797	
$FRFP_{2024}$	Forecast revenue from prices 2024 [30]	649,808		649,808	
RRP_{2024}	Revenue reduction percentage 2024		-1.90%		-1.85%
Revenue reduction percentage > 20%?			**No**		**No**
Revenue forgone (RV_{2024})		**-**		**-**	

[28] Details of actual revenue from prices 2024, calculated as $\sum Pi_{,2024}\ Qi_{,2024}$ (prices 2024 x actual quantities 2024) is included in Appendix 1, tables 27, 29, 31 and 33.

[29] Details of other regulated income 2023 is from the 2024 Annual Compliance Statement, available at https://blob-static.vector.co.nz/blob/vector/media/vector-2024/vector-annual-compliance-statement-2024.pdf.

[30] Forecast revenue from prices is from the 2024 Price Setting Compliance Statement, available at https://blob-static.vector.co.nz/blob/vector/media/vector-2024/vector-annual-compliance-statement-2024.pdf.

3. QUALITY STANDARDS

3.1 Quality standards - planned interruptions

As required by clause 9.1 of the Determination, to demonstrate compliance with the quality standards, the sum of Vector's planned SAIDI (SAIFI) assessed values for all five assessment periods of the DPP regulatory period[31] must not exceed the planned accumulated SAIDI (SAIFI) limit set out in the Determination at the end of the fifth assessment period of the DPP regulatory period.

Planned SAIDI assessment

The 2025 assessment period is the fifth assessment period of the Determination, therefore for the purpose of the Statement, Vector has compared its planned SAIDI assessed value against both the planned accumulated SAIDI five-year limit for the DPP regulatory period and the average annual planned SAIDI limit.

Vector has complied with clause 9.1 of the Determination because:

- The sum of its planned SAIDI assessed values for the assessment periods 2021, 2022, 2023, 2024 and 2025 was below the planned accumulated SAIDI limit for the DPP; and
- Its planned SAIDI assessed value for the 2025 assessment period was below the average annual planned SAIDI limit.

Both are reported in Table 14 below.

Table 14: Planned SAIDI standard

Type	2025 SAIDI assessed value	2024 SAIDI assessed value	2023 SAIDI assessed value	2022 SAIDI assessed value	2021 SAIDI assessed value[32]	Total accumulated SAIDI assessed value	Accumulated limit[33] (5-year)	Average annual limit[34]	Compliance *(Clause 9.1)*
Planned interruptions	49.18	55.77	43.87	40.48	46.54	235.84	585.38	117.08	**Compliant**

[31] For the regulatory period 1 April 2020 to 31 March 2025.
[32] Details of 2024, 2023, 2022 and 2021 SAIDI assessed values are from the 2024 Annual Compliance Statement, available at https://blob-static.vector.co.nz/blob/vector/media/vector-2023/2023-vector-s-electricity-annual-compliance-statement.pdf.
[33] The planned accumulated SAIDI limit for the DPP regulatory period is set out in the table 3.1.1 of Schedule 3.1 of the Determination.
[34] The average annual planned SAIDI limit is the planned accumulated SAIDI limit divided by five.

Table 15 specifies how Vector has derived the planned SAIDI assessed value for the 2025 assessment period.

Table 15: Planned SAIDI assessed value		
Formula: $SAIDI_{planned,assessed} = SAIDI_B + \frac{SAIDI_N}{2}$		
Component	**Description**	**Value**
$\boldsymbol{SAIDI_B}$	Sum of SAIDI values: (a) Class B interruptions excluding the Class B notified interruptions + (b) Class B notified interruptions occurred partially or wholly outside of their specified notified interruption window or alternate day	**9.51**
$SAIDI_N$	(a) the SAIDI values of any Class B notified interruptions where the SAIDI value is the greater of that calculated based on: (i) the duration of minutes accumulated for each ICP that the Class B notified interruption occurred for; and (ii) the period of the notified interruption window minus two hours;	74.90
	(b) the 'intended SAIDI values' of any intended interruption cancelled without notice is the greater of that calculated based on: (i) the duration of minutes accumulated for each ICP that the intended interruption occurred for, which will be zero; and (ii) the period of the notified interruption window minus two hours; and	4.44
	(c) the 'intended SAIDI values' of any intended interruption cancelled with notice, where the 'intended SAIDI value' for each of those intended interruptions cancelled with notice is zero.	-
	Total	**79.34**
$\frac{\boldsymbol{SAIDI_N}}{\mathbf{2}}$		**39.67**
$SAIDI_{planned,assessed} = SAIDI_B + \frac{SAIDI_N}{2}$		**49.18**

Planned SAIFI assessment

The 2025 assessment period is the fifth assessment period of the Determination; therefore, for the purpose of the Statement, Vector has compared its planned SAIFI assessed value against both the planned accumulated SAIFI five-year limit and the average annual planned SAIFI limit.

Vector has complied with clause 9.1 of the Determination because:

- The sum of its planned SAIFI assessed values for the assessment periods 2021, 2022, 2023, 2024 and 2025 was below the planned accumulated SAIFI limit for the DPP; and

- Its planned SAIFI assessed value for the 2025 assessment period was below the average annual planned SAIFI limit

Both are reported in Table 16 below.

Table 16: Planned SAIFI assessed value									
Type	**2025 SAIFI assessed value**	**2024 SAIFI assessed value**	**2023 SAIFI assessed value**	**2022 SAIFI assessed value**	**2021 SAIFI assessed value [35]**	**Total accumulated SAIFI assessed value**	**Accumulated limit[36] (5-year)**	**Average annual limit[37]**	**Compliance** *(Clause 9.1)*
Planned interruptions	0.282	0.311	0.256	0.269	0.342	1.46	2.878	0.576	**Compliant**

Vector is not required to provide the 'planned interruptions reporting' specified by clause 12.1 of the Determination as Vector has not exceeded the planned SAIDI and SAIFI limits and therefore has complied with clauses 9.2(a) and 9.2(b) of the Determination.

3.2 Quality standards - unplanned interruptions

As required by clause 9.7 of the Determination, to demonstrate compliance with the quality standards in respect of each assessment period, Vector must comply with the unplanned interruptions reliability assessment specified in clause 9.8 for that assessment period.

Unplanned SAIDI assessment

Vector's annual unplanned SAIDI limit and boundary data are set by the Commission and disclosed in Schedule 3.2 of the Determination.

As detailed below in Table 17, Vector's unplanned SAIDI assessed value has not exceeded the unplanned SAIDI limit for the 2025 assessment period.

Table 17: Unplanned SAIDI standard				
Type	**2025 SAIDI assessed value**	**Annual SAIDI limit**	**SAIDI Boundary**	**Compliance** *(Clause 9.7)*
Unplanned interruptions	76.56	104.83	4.83	**Compliant**

The methodology for deriving the unplanned SAIDI assessed value for the 2025 assessment period is detailed below in Table 18 and the supporting data which informed the replacing of SAIDI values during Vector's SAIDI major events have been included in Appendix 4a.

[35] Details of 2021, 2022, 2023 and 2024's SAIFI assessed value are from the 2024 Annual Compliance Statement, available at https://blob-static.vector.co.nz/blob/vector/media/vector-2023/2023-vector-s-electricity-annual-compliance-statement.pdf.

[36] The planned accumulated SAIFI limit for the DPP regulatory period is set out in the table 3.1.1 of Schedule 3.1 of the Determination.

[37] The average planned SAIFI limit is the planned accumulated SAIFI limit divided by five.

Table 18: Unplanned SAIDI assessment		
Component	**Description**	**Value**
$SAIDI_{unplanned,assessed}$	Sum of the SAIDI values for Class C interruptions commencing within the assessment period, where the SAIDI value for each 30-minute period that starts on the hour or half past the hour within a SAIDI major event that exceeds 1/48th of the SAIDI unplanned boundary value for that assessment period is replaced with 1/48th of the SAIDI unplanned boundary value for that assessment period	76.56

Unplanned SAIFI assessment:

Vector's annual unplanned SAIFI limit and boundary data are set by the Commission and disclosed in Schedule 3.2 of the Determination.

As detailed below in Table 19, Vector's unplanned SAIFI assessed value has not exceeded the unplanned SAIFI limit for the 2025 assessment period.

Table 19: Unplanned SAIFI standard				
Type	**Annual SAIFI assessed value**	**Annual SAIFI limit**	**SAIFI Boundary**	**Compliance** *(Clause 9.7)*
Unplanned interruptions	0.899	1.337	0.037	**Compliant**

The methodology for deriving the unplanned SAIFI assessed value for the 2025 assessment period is detailed below in Table 20 and the supporting data which informed the replacing of SAIFI values during Vector's SAIFI major events have been included in Appendix 4b.

Table 20: Unplanned SAIFI assessed values		
Component	**Description**	**Value**
$SAIFI_{unplanned,assessed}$	Sum of the SAIFI values for Class C interruptions commencing within the assessment period, where the SAIFI value for each 30-minute period that starts on the hour or half past the hour within a SAIFI major event that exceeds 1/48th of the SAIFI unplanned boundary value for that assessment period is replaced with 1/48th of the SAIFI unplanned boundary value for that assessment period.	0.899

Vector is not required to provide the 'unplanned interruptions reporting' specified by clause 12.3 of the Determination as Vector has not exceeded the unplanned SAIDI and SAIFI limits and therefore has complied with clauses 9.7 and 9.8 of the Determination.

3.3 Quality incentive adjustment

Vector's target, collar, and cap for SAIDI planned and unplanned and Vector's incentive rate for the DPP regulatory period are set out in the Determination respectively. We have present them together in Table 21.

Table 21: Vector's SAIDI quality measures

Measure	Incentive rate (IR)	Target	Collar	Cap
Unplanned	$84,519	89.28	-	104.83
Planned		39.03	-	117.08

The quality incentive adjustment must be calculated by Vector within five months after the expiration of the assessment period in accordance with Schedule 4 of the Determination and is a recoverable cost in the assessment period following that in which it was calculated. This Statement includes the calculation for the quality incentive adjustment for the 2027 assessment period in Appendix 2, in accordance with clause 11.6 in the Determination.

3.4 Major events within the assessment period

A SAIDI/SAIFI major event is defined in clause 4.2 of the Determination as any period of 24 hours that starts on the hour or half past the hour where the sum of SAIDI/SAIFI values over that period for unplanned interruptions exceeds the applicable SAIDI/SAIFI unplanned boundary value.

Vector had one extended SAIDI major event and three extended major SAIFI events during the 2025 assessment period. We have defined each of these events as an 'extended major event' as major events can last longer than 24 hours if the major event criteria are met. This is in accordance with the Commission's final decision in the Determination's reasons paper[38].

Tables 22 includes details relating to the one extended major SAIDI event in accordance with clause 11.6(g) of the Determination.

[38] Section K69-K72 p391 - https://comcom.govt.nz/__data/assets/pdf_file/0020/191810/Default-price-quality-paths-for-electricity-distribution-businesses-from-1-April-2020-Final-decision-Reasons-paper-27-November-2019.PDF

Table 22: SAIDI Major Event 1 (ME1)					
Start time & date		**End time & date**		**SAIDI Value before normalisation (see Appendix 4a)**	**SAIDI Value after normalisation (see Appendix 4a)**
28 May 2024	05:00 PM	30 May 2024	07:30 PM	19.223	2.920
Main causes	Equipment (58 events); Vegetation (32 events); Lightning (5 events) and Third-party incident (3 events). Total 98 events.				
Main location(s)	Affected areas include the following South Auckland – Franklin Ward (Clevedon, Brookby, Ness Valley, Kawakawa Bay, Whitford, Hunua, Orere Point, Beachland, Maraetai), Papatoetoe, Wiri, Manukau, Clover Park, Flat Bush, Otara, Hillpark, Manurewa, Favona, Mangere East, Mangere Bridge, Alfriston, Takanini, Totara Park, Ardmore, Papakura Gulf Island – Waiheke Island, Oneroa, Onetangi, Ostend, Surfdale, Palm Beach, Matiatia Bay, Putiki Bay, Te Matuku Bay/McLeods Bay, Rotoroa Island West Auckland – Anawhata, Henderson Valley, Henderson, Piha, Waitakere, Oratia, Waiatarua, Muriwai, Te Henga / Bethells Beach, Swanson, Massey, Huapai, Kumeu, Taupaki, West Harbour, Green Bay, Titirangi Northwest Auckland – Rodney Ward (Helensville, Parakai, Shelley Beach, South Head, Kaukapakapa, Waitoki, Puhoi, Warkworth, Snells Beach, Sandspit, Omaha, Tawharanui Peninsula, Makarau, Tahekeroa, Glorit, Kaipara Flats, Port Albert, Taporoa, Wharehine, Waimauku) Gulf Island – Waiheke Island, Oneroa, Onetangi, Ostend, Surfdale, Palm Beach, Matiatia Bay, Putiki Bay, Te Matuku Bay / McLeods Bay, Rotoroa Island, Omiha Central Auckland – Ellerslie, Mt Wellington, Remeura East Auckland – Howick, Mellons Bay				
ICPs affected (rounding to the nearest thousand)	53,000				
Main equipment involved	Overhead lines and cables				
How Vector responded	A 'Storm Warning' was issued in accordance with the Vector Storm Response Process as a tropical low approached the upper North Island. In response, additional first response and support crews were rostered, with further crews placed on standby. This meant that crews were fully prepared and ready for immediate dispatch during the storm. The emergency management team met regularly to discuss weather updates, the impact on customers and outages during the event. Daily operational meetings were held with our FSPs to ensure clear communication and coordinated response efforts.				
Prevention and future improvements	In this instance no specific further prevention and future improvements were identified. Our approach to continuous improvement is as follows: Every unplanned outage event is reviewed at the daily O&M Performance Meeting which is chaired by the GM Operations and has representatives from asset management and operations. Every SAIDI event above 0.5 minutes at the monthly Strategic Reliability Management Meeting, chaired by the Chief Engineer, where any learnings, findings, outcomes and follow-up actions are agreed. Continuous improvement actions resulting from these reviews are captured and monitored through the Strategic Reliability Management Plan (SRMP). These reviews typically consider the following: • EOC actions & response • Network configuration • Maintenance & asset condition notifications • Protection & operations • Restoration actions/ efforts by the FSPs • Vegetation management				

Tables 23 to 25 include details relating to the three extended major SAIFI events in accordance with clause 11.6(h) of the Determination.

Table 23: SAIFI Major Event (ME2)					
Start time & date		**End time & date**		**SAIFI Value before normalisation (see Appendix 4b)**	**SAIFI Value after normalisation (see Appendix 4b)**
11 April 2024	04:30 AM	12 April 2024	10:00 AM	0.043	0.013
Main causes	Equipment (26 events); Vegetation (21 events); Third-party incident (2 events). Total 49 events.				
Main location(s)	Affected areas include the following: West Auckland – Green Bay, New Lynn, Blockhouse Bay, Kelston, Titirangi, Oratia, Henderson Valley, Massey, Swanson, Taupaki, Waitakere South Auckland – Alfriston, Totara Heights, Goodwood Heights, Clover Park, Flat Bush, Kawakawa Bay, Orere Point, Whakatiwai, Beachlands, Clevedon, Whitford North Auckland – Greenhithe, Rosedale, Schnapper Rock, Paremoremo, Whenuapai, Devonport, Stanley Point, Belmont, Hauraki, Stanmore Bay, Wade Heads, Fairview Heights, Long Bay Northwest Auckland in Rodney ward – Riverhead, Taupaki, Waitakere, Helensville, Parakai, Shelly Beach, South Head, Hatfields Beach, Kaukapakapa, Orewa, Puhoi, Tahekeroa, Wainui, Waitoki, Waiwera, Port Albert				
ICP affected (rounding to the nearest thousand)	27,000				
Main equipment involved	Overhead lines				
How Vector responded	Heavy rain warning and severe thunderstorm watch are issued. Continuous monitoring of weather, frequent updates requested from MetService. Additional field crews & EOC resources rostered on along with additional crews on standby. Regular meetings were held with our field service providers to ensure clear communication and coordinated response efforts.				
Prevention and future improvements	In this instance no specific further prevention and future improvements were identified. Our approach to continuous improvement is as follows: Every unplanned outage event is reviewed at the daily O&M Performance Meeting which is chaired by the GM Operations and has representatives from asset management and operations. Every SAIDI event above 0.5 minutes at the monthly Strategic Reliability Management Meeting, chaired by the Chief Engineer, where any learnings, findings, outcomes and follow-up actions are agreed. Continuous improvement actions resulting from these reviews are captured and monitored through the Strategic Reliability Management Plan (SRMP). These reviews typically consider the following: • EOC actions & response • Network configuration • Maintenance & asset condition notifications • Protection & operations • Restoration actions/ efforts by the FSPs • Vegetation management				

Table 24: SAIFI Major Event (ME3)					
Start time & date		**End time & date**		**SAIFI Value before normalisation (see Appendix 4b)**	**SAIFI Value after normalisation (see Appendix 4b)**
28 May 2024	07:00 PM	30 May 2024	06:30 PM	0.084	0.016
Main causes	Equipment (58 events); Vegetation (32 events); Lightning (6 events); Third-party incident (3 events). Total 98 events.				
Main location(s)	Affected areas include the following: South Auckland – Franklin Ward (Clevedon, Brookby, Ness Valley, Kawakawa Bay, Whitford, Hunua, Orere Point, Beachland, Maraetai), Papatoetoe, Wiri, Manukau, Clover Park, Flat Bush, Otara, Hillpark, Manurewa, Favona, Mangere East, Mangere Bridge, Alfriston, Takanini, Totara Park, Ardmore, Papakura Gulf Island – Waiheke Island, Oneroa, Onetangi, Ostend, Surfdale, Palm Beach, Matiatia Bay, Putiki Bay, Te Matuku Bay/McLeods Bay, Rotoroa Island West Auckland – Anawhata, Henderson Valley, Henderson, Piha, Waitakere, Oratia, Waiatarua, Muriwai, Te Henga / Bethells Beach, Swanson, Massey, Huapai, Kumeu, Taupaki, West Harbour, Green Bay, Titirangi Northwest Auckland – Rodney Ward (Helensville, Parakai, Shelley Beach, South Head, Kaukapakapa, Waitoki, Puhoi, Warkworth, Snells Beach, Sandspit, Omaha, Tawharanui Peninsula, Makarau, Tahekeroa, Glorit, Kaipara Flats, Port Albert, Taporoa, Wharehine, Waimauku) Gulf Island – Waiheke Island, Oneroa, Onetangi, Ostend, Surfdale, Palm Beach, Matiatia Bay, Putiki Bay, Te Matuku Bay / McLeods Bay, Rotoroa Island, Omiha Central Auckland – Ellerslie, Mt Wellington, Remeura East Auckland – Howick, Mellons Bay				
ICP affected (rounding to the nearest thousand)	53,000				
Main equipment involved	Overhead lines and cables				
How Vector responded	A ‘Storm Warning’ was issued in accordance with the Vector Storm Response Process as a tropical low approached the upper North Island. In response, additional first response and support crews were rostered, with further crews placed on standby. This meant that crews were fully prepared and ready for immediate dispatch during the storm. The emergency management team met regularly to discuss weather updates, the impact on customers and outages during the event. Daily operational meetings were held with our FSPs to ensure clear communication and coordinated response efforts.				
Prevention and future improvements	In this instance no specific further prevention and future improvements were identified. Our approach to continuous improvement is as follows: Every unplanned outage event is reviewed at the daily O&M Performance Meeting which is chaired by the GM Operations and has representatives from asset management and operations. Every SAIDI event above 0.5 minutes at the monthly Strategic Reliability Management Meeting, chaired by the Chief Engineer, where any learnings, findings, outcomes and follow-up actions are agreed. Continuous improvement actions resulting from these reviews are captured and monitored through the Strategic Reliability Management Plan (SRMP). These reviews typically consider the following: • EOC actions & response • Network configuration • Maintenance & asset condition notifications • Protection & operations • Restoration actions/ efforts by the FSPs • Vegetation management				

Table 25: SAIFI Major Event (ME4)					
Start time & date		**End time & date**		**SAIFI Value before normalisation (see Appendix 4b)**	**SAIFI Value after normalisation (see Appendix 4b)**
16 June 2024	07:30 AM	18 June 2024	06:30 AM	0.054	0.0025
Main causes		Third-party incident (4 events); Animal (1 event); Equipment (1 event); Lightning (1 event). Total 7 events.			
Main location(s)		A lightning event at zone substation caused a huge outage primarily in northern area (Albany, Albany Heights, Fairview Heights, Long Bay, Northcross, Oteha, Pinehill, Rosedale, Windsor Park, Browns Bay, Mairangi Bay, Murrays Bay, Rothesay Bay, Torbay, Waiake, and Northwest Auckland in Rodney Ward (Helensville, Parakai, South Head, Huapai, Kumeu, Waimauku, Muriwai and Port Albert)			
ICP affected (rounding to the nearest thousand)		34,000			
Main equipment involved		Overhead lines			
How Vector responded		MetService issued a severe weather update, warning that a deep low weather system to the northeast of the North Island was expected to bring heavy rains and large easterly swells Continuous monitoring of weather, frequent updates requested from MetService. Additional field crews & EOC resources rostered on along with additional crews on standby. Regular meetings were held with our Field service providers to ensure clear communication and coordinated response efforts.			
Prevention and future improvements		In this instance no specific further prevention and future improvements were identified. Our approach to continuous improvement is as follows: Every unplanned outage event is reviewed at the daily O&M Performance Meeting which is chaired by the GM Operations and has representatives from asset management and operations. Every SAIDI event above 0.5 minutes at the monthly Strategic Reliability Management Meeting, chaired by the Chief Engineer, where any learnings, findings, outcomes and follow-up actions are agreed. Continuous improvement actions resulting from these reviews are captured and monitored through the Strategic Reliability Management Plan (SRMP). These reviews typically consider the following: • EOC actions & response • Network configuration • Maintenance & asset condition notifications • Protection & operations • Restoration actions/ efforts by the FSPs • Vegetation management			

All the supporting information in relation to the half-hourly normalised SAIDI and SAIFI during the major event which have informed Vector's unplanned SAIDI and SAIFI assessed value has been disclosed in Appendices 4a and 4b.

Explanations for mitigating factors

Mitigating factors to prevent or minimise these events largely relate to Vector's pre-storm operations and network design and maintenance. That is, the mitigating factors to prevent these events and to minimise the impact of these events relate to Vector's approach to prevent further outages. This was presented under the 'prevention and future improvements' section in the tables from 22 to 25.

Vector's approach to outage events to mitigate the impact and prevent them in future is also disclosed in much greater detail in Vector's 2024 AMP[39] including detailed information on its Strategic Reliability Management Plan (SRMP) and Vector's initiatives to respond to climate change. Additionally, Vector's processes in a storm are also described on our website[40].

3.5 Extreme events within the assessment period

For clause 9.9 of the Determination, to comply with the extreme event standard, Vector must not have an extreme event in the assessment period.

An extreme event is defined in Schedule 3.3 of the Determination as any period of 24 hours that starts on the hour or half past the hour where either:

1. **SAIDI value of 120 minutes**: The SAIDI value of all unplanned interruptions that start during that 24-hour period, in aggregate, is above 120 minutes; or
2. **Total of six million customer interruption minutes**: The total duration of customer interruption minutes resulting from all unplanned interruptions that start during that 24-hour period, in aggregate, is more than six million customer interruption minutes.

As defined in Schedule 3.3 (2) of the Determination, any unplanned interruption caused by 'major external factors' is not an extreme event. The Determination defines major external factors as natural disaster, third party interference, a fire that does not originate on the EDB's network, or wildfire. The Determination defines a natural disaster as floods, severe weather events, including severe lightning, severe storms (including solar storms), severe wind and severe rain etc.

Vector has excluded one unplanned interruption which, although in excess of six million customer interruption minutes, was caused by severe storms. Appendix 5 provides the justification for treating this event as a natural disaster.

During the 2025 assessment period, Vector did not have an extreme event and therefore complies with the extreme event standard under the clause 9.9 of the Determination. Therefore, Vector is not

[39] Sections 11.3, 11.4 and 11.6, Vector's AMP 2024 https://blob-static.vector.co.nz/blob/vector/media/vector-2024/electricity-asset-management-plan-2024-combined-final-updated.pdf.
[40] https://www.vector.co.nz/personal/outages/popular-questions/what-does-vector-do-in-a-storm

required to provide the extreme event standard reporting specified by clause 12.5 of the Determination.

3.6 Policies and procedures for recording SAIDI and SAIFI

Vector's EOC is responsible for operating the electricity network. The resolution of planned and unplanned events is under direction of the duty Electricity Operations Controller. The EOC also operates the network in accordance with two internal company standards. These standards define the end-to-end process for capturing and reporting reliability performance data in accordance with the Determination.

Recording interruptions

Most medium voltage and high voltage interruptions are monitored and controlled in real-time by the EOC through Vector's ADMS system. Where equipment is involved that is not ADMS enabled, it is operated by Vector's service providers, with communication to the EOC by radio.

All planned and unplanned records are captured by the Electricity Operations Controller both in hard copy (electricity fault switching log) and electronically (HVSPEC database described below).

All interruptions are also logged and tracked separately in Vector's Customer Management System by Vector's customer services team.

Vector maintains a bespoke system for recording interruptions, HVSPEC. HVSPEC holds all the data in relation to customer numbers for each part of the HV network. The EOC controllers record details of all network interruptions, in accordance with the Determination for unplanned interruptions and for planned interruptions.

For each interruption, the event type, location, duration, and number of customers affected is identified. Appendix 3 illustrates both the HVSPEC planned and unplanned data capture processes, and the quality assurance carried out on outage information.

SAIDI and SAIFI calculation

SAIDI and SAIFI are calculated in HVSPEC for each interruption, and the data is retained in a database for reporting and analysis. At the end of each year the period's average number of ICPs is calculated using the Gentrack billing and revenue system (averaging ICPs at the start and end of the year). The following reliability metrics are extracted from the HVSPEC database for disclosure reporting:

- Interruption frequency and duration by class;
- Interruption frequency and duration by cause;
- Interruption frequency and duration by main equipment involved; and

- SAIDI/SAIFI (calculated using average customer count).

3.7 Transactions

To comply with clause 11.6(i) Vector confirms that it has not entered into an agreement with another EDB or Transpower for an amalgamation, merger, major transaction, or transfer during the 2025 assessment period; and therefore, no further information was provided to the Commission as specified in clause 10.1 of the Determination.

4. DIRECTORS' CERTIFICATE

Electricity Distribution Services Default Price-Quality Path Determination 2020

Schedule 7: Director's Certificate on Annual Compliance Statement

I, Anne Urlwin, being a director of Vector Limited, certify that, having made all reasonable enquiry, to the best of my knowledge and belief, the attached Annual Compliance Statement of Vector Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price-Quality Path Determination 2020* has been prepared in accordance with all the relevant requirements.

Director

Date 22/08/2025

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 Reasonable Assurance Report to Vector Limited

Opinion

Our reasonable assurance opinion has been formed on the basis of the matters outlined in this report.

In our opinion, Vector Limited has, in all material respects, complied with the Clause 11 of the Electricity Distribution Services Default Price-Quality Path Determination 2020 for the period 1 April 2024 to 31 March 2025.

As far as appears from an examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from Vector Limited's accounting and other records, sourced from its financial and non-financial systems for the period 1 April 2024 to 31 March 2025.

Information subject to assurance

We have performed an engagement to provide reasonable assurance in relation to Vector Limited's Electricity Distribution Services Default Price-Quality Path Compliance Statement (the 'Annual Compliance Statement') for the period 1 April 2024 to 31 March 2025.

Criteria

Clause 11 of the Electricity Distribution Services Default Price-Quality Path Determination 2020. As a result, this report may not be suitable for another purpose.

Standards we followed

We conducted our reasonable assurance engagement in accordance with Standard on Assurance Engagements 3100 (Revised) Compliance Engagements **(SAE 3100 (Revised))** issued by the New Zealand Auditing and Assurance Standards Board (**Standard**). We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our reasonable opinion. In accordance with the Standard, we have:

- used our professional judgement to assess the risk of material non-compliance and planned and performed the engagement to obtain reasonable assurance that the Electricity Distribution Services Default Price-Quality Path Compliance Statement (the 'Annual Compliance Statement'), is free from material non-compliance, whether due to fraud or error;

- considered relevant internal controls when designing our assurance procedures, however we do not express an opinion on the effectiveness of these controls; and
- ensured that the engagement team possesses the appropriate knowledge, skills and professional competencies.

How to interpret reasonable assurance and material non-compliance

Reasonable assurance is a high level of assurance, but is not a guarantee that it will always detect material non-compliance, when it exists.

Non-compliance is considered material if, individually or in aggregate, they it could reasonably be expected to influence the relevant decisions of the intended users taken on the basis of the Electricity Distribution Services Default Price-Quality Path Compliance Statement (the 'Annual Compliance Statement').

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 with compliance requirements may occur and not be detected.

A reasonable assurance engagement for the period 1 April 2024 to 31 March 2025 does not provide assurance on whether compliance with Clause 11 of the Electricity Distribution Services Default Price-Quality Path Determination 2020 will continue in the future or that the information used in the preparation of the Annual Compliance Statement will continue to be properly extracted from Vector Limited's accounting and other records, sourced from its financial and non-financial systems.

Use of this assurance Report

Our report is made solely for Vector Limited. Our assurance work has been undertaken so that we might state to Vector Limited those matters we are required to state to them in the assurance report and for no other purpose.

Our report is released to Vector Limited on the basis that it shall not be copied, referred to or disclosed, in whole or in part, without our prior written consent. No other third party is intended to receive our report.

Our report should not be regarded as suitable to be used or relied on by anyone other than Vector Limited for any purpose or in any context. Any other person who obtains access to our report or a copy thereof and chooses to rely on our report (or any part thereof) will do so at its own risk.

To the fullest extent permitted by law, none of KPMG, any entities directly or indirectly controlled by KPMG, or any of their respective members or employees accept or assume any responsibility and deny all liability to anyone other than Vector Limited for our work, for this independent assurance report, and/or for the opinions or conclusions we have reached.

Our opinion is not modified in respect of this matter.

Vector Limited's responsibility for the Annual Compliance Statement

The directors of Vector Limited are responsible for the compliance activities undertaken to meet the compliance requirement in accordance with Clause 11 of the Electricity Distribution Services Default Price-Quality Path Determination 2020 and compliance requirement that the information used in the preparation of the Annual Compliance Statement has been properly extracted from Vector Limited's accounting and other records, sourced from its financial and non-financial systems for the period 1 April 2024 to 31 March 2025.

This responsibility includes such internal control as the directors determine is necessary to enable the identification of risks that threaten the compliance requirements identified above being met and identifying, designing and implementing controls which will mitigate those risks and monitor ongoing compliance.

Our responsibility

Our responsibility is to express an opinion to Vector Limited on whether Vector Limited has, in all material respects, complied with the Criteria for the period 1 April 2024 to 31 March 2025 and to express an opinion whether as far as appears from an examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from Vector Limited's accounting and other records, sourced from its financial and non-financial systems for the period 1 April 2024 to 31 March 2025.

Our independence and quality management

We have complied with the independence and other ethical requirements of Professional and Ethical Standard 1 *International Code of Ethics for Assurance Practitioners (including International Independence Standards*) (New Zealand) (**PES 1**) issued by the New Zealand Auditing and Assurance Standards Board, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behaviour.

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

Our firm has also provided annual audit and half-yearly review of financial statements, regulatory assurance, pre-assurance on climate related disclosures, compliance in relation to R&D tax credits and other assurance services to Vector Limited. Subject to certain restrictions, partners and employees of our firm may also deal with Vector Limited on normal terms within the ordinary course of trading activities of the business of Vector Limited. These matters have not impaired our independence as assurance providers of Vector Limited for this engagement. The firm has no other relationship with, or interest in, Vector Limited.

KPMG

Auckland

22 August 2025

Appendix 1: PY2025 & PY2024 total line charge revenues

Table 26: Summary of PY2025 total line charge revenues

Consumer Group	Pi 2025 x Qi 2025 Auckland ($)	Pi 2025 x Qi 2025 Northern ($)	Pi 2025 x Qi 2025 Total ($)
Residential	185,555,054	135,655,466	321,210,520
General	35,682,413	21,284,285	56,966,698
Transformer	45,917,837	17,183,463	63,101,300
Low voltage	44,958,686	13,814,847	58,773,533
High voltage	15,064,530	3,968,463	19,032,993
Zone substation	4,176,138	-	4,176,138
Sub-transmission	-	6,177	6,177
Non-standard	5,660,903	1,916,925	7,577,828
Transmission	128,005,242	64,148,118	192,153,360
Total	**465,020,803**	**257,977,744**	**722,998,547**

Table 27: Summary of PY24 total line charge revenues

Consumer Group	Pi 2024 x Qi 2024 Auckland ($)	Pi 2024 x Qi 2024 Northern ($)	Pi 2024 x Qi 2024 Total ($)
Residential	165,252,003	121,336,035	286,588,038
General	32,676,560	19,260,788	51,937,348
Transformer	42,519,838	13,373,442	55,893,280
Low voltage	40,048,892	11,836,937	51,885,829
High voltage	13,188,539	3,486,128	16,674,667
Zone substation	1,709,345	-	1,709,345
Non-standard	7,565,287	1,569,227	9,134,514
Transmission	144,836,961	43,137,374	187,974,335
Total	**447,797,425**	**213,999,931**	**661,797,356**

Table 28: Non-standard consumers' PY25 total line charge revenues

Network	Anonymised code	Qi,2025	Pi,2025	Pi,2025 Qi,2025 ($)
Northern	WN25-1	1	264,564.00	264,564.00
Northern	WN25-2	1	541,334.04	541,334.04
Northern	WN25-3	1	-	-
Northern	WN25-4	1	303,652.96	303,652.96
Auckland	AN25-1	1	-	-
Auckland	AN25-2	1	983,640.00	983,640.00
Auckland	AN25-3	1	1,066,497.96	1,066,497.96
Auckland	AN25-4	1	-	-
Auckland	AN25-5	1	271,680.00	271,680.00
Auckland	AN25-6	1	802,048.77	802,048.77
Auckland	AN25-7	1	-	-
Auckland	AN25-8	1	807,374.40	807,374.40
Auckland	AN25-9	1	582,385.80	582,385.80
Auckland	AN25-10	1	829,057.68	829,965.68
Auckland	AN25-11	1	334,932.00	334,932.00
Auckland	AN25-12	1	72,557.76	72,557.76
Auckland	AN25-13	1	284,808.00	284,808.00
Auckland	AN25-14	1	60,615.00	60,615.00
Auckland	AN25-15	1	-	-
Auckland	AN25-16	1	-	-
Auckland	AN25-17	1	-	-
Auckland	AN25-18	1	371,772.00	371,772.00

Table 29: Non-standard consumers' PY24 total line charge revenues

Network	Anonymised code	Qi2024	Pi2024	Pi 2024 x Qi 2024 ($)
Northern	WN24-1	1	261,432.00	261,432.00
Northern	WN24-2	1	517,378.00	517,378.00
Northern	WN24-3	1	-	-
Auckland	AN24-1	1	-	-
Auckland	AN24-2	1	996,888.00	996,888.00
Auckland	AN24-3	1	1,049,414.16	1,049,414.16
Auckland	AN24-4	1	-	-
Auckland	AN24-5	1	703,982.04	703,982.04
Auckland	AN24-6	1	568,800.00	568,800.00
Auckland	AN24-7	1	794,112.00	794,112.00
Auckland	AN24-8	1	-	-
Northern	AN24-9	1	790,416.88	790,416.88
Auckland	AN24-10	1	395,538.20	395,538.20
Auckland	AN24-11	1	547,478.28	547,478.28
Auckland	AN24-12	1	794,524.04	794,524.04
Auckland	AN24-13	1	333,732.00	333,732.00
Auckland	AN24-14	1	69,330.36	69,330.36
Auckland	AN24-15	1	282,876.00	282,876.00
Auckland	AN24-16	1	57,918.84	57,918.84
Auckland	AN24-17	1	-	-
Auckland	AN24-18	1	-	-
Auckland	AN24-19	1	-	-
Auckland	AN24-20	1	367,740.00	367,740.00
Auckland	AN24-21	1	311,602.08	311,602.08
Auckland	AN24-22	1	124,061.12	124,061.12
Auckland	AN24-23	1	167,289.84	167,289.84

Table 30: PY2025 total line charge revenues

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Auckland	Residential	ARHLC-FIXD	51,132,882.00	0.6000	30,679,729.20
Auckland	Residential	ARHLC-INJT	3,521,296.14	-	-
Auckland	Residential	ARHLC-OFPK	573,587,543.17	0.0369	21,165,380.34
Auckland	Residential	ARHLC-PEAK	97,544,560.40	0.0369	3,599,394.28
Auckland	Residential	ARHLC-PEAK	150,362,612.76	0.1352	20,329,025.25
Auckland	Residential	ARHLU-FIXD	23,076,535.00	0.6000	13,845,921.00
Auckland	Residential	ARHLU-INJT	4,999,467.68	-	-
Auckland	Residential	ARHLU-OFPK	201,916,654.37	0.0378	7,632,449.54
Auckland	Residential	ARHLU-PEAK	32,754,946.07	0.0378	1,238,136.96
Auckland	Residential	ARHLU-PEAK	47,858,314.34	0.1361	6,513,516.58
Auckland	Residential	ARHSC-FIXD	23,131,650.00	1.4100	32,615,626.50
Auckland	Residential	ARHSC-INJT	2,719,374.31	-	-
Auckland	Residential	ARHSC-OFPK	418,196,080.99	-	-
Auckland	Residential	ARHSC-PEAK	72,224,790.34	-	-
Auckland	Residential	ARHSC-PEAK	103,728,045.45	0.0983	10,196,466.87
Auckland	Residential	ARHSU-FIXD	15,294,687.00	1.4300	21,871,402.41
Auckland	Residential	ARHSU-INJT	3,213,428.43	-	-
Auckland	Residential	ARHSU-OFPK	234,364,269.01	-	-
Auckland	Residential	ARHSU-PEAK	39,437,489.17	-	-
Auckland	Residential	ARHSU-PEAK	52,931,492.55	0.0983	5,203,165.72
Auckland	Residential	ARNLC-AICO	38,965,111.00	0.0531	2,069,047.39
Auckland	Residential	ARNLC-FIXD	2,434,109.00	0.6000	1,460,465.40
Auckland	Residential	ARNLC-INJT	50,111.97	-	-
Auckland	Residential	ARNLU-24UC	10,756,124.81	0.0540	580,830.74
Auckland	Residential	ARNLU-FIXD	963,274.00	0.6000	577,964.40
Auckland	Residential	ARNLU-INJT	35,555.92	-	-
Auckland	Residential	ARNSC-AICO	46,232,730.35	0.0162	748,970.23
Auckland	Residential	ARNSC-FIXD	1,931,970.00	1.4100	2,724,077.70
Auckland	Residential	ARNSC-INJT	64,506.05	-	-

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Auckland	Residential	ARNSU-24UC	20,570,004.92	0.0162	333,234.08
Auckland	Residential	ARNSU-FIXD	1,517,657.00	1.4300	2,170,249.51
Auckland	Residential	ARNSU-INJT	114,040.38	-	-
Auckland	General	ABSH-FIXD	11,450,106.00	1.7400	19,923,184.44
Auckland	General	ABSH-INJT	1,477,408.01	-	-
Auckland	General	ABSH-OFPK	431,503,184.98	-	-
Auckland	General	ABSH-PEAK	86,958,102.07	-	-
Auckland	General	ABSH-PEAK	99,484,607.64	0.0983	9,779,336.93
Auckland	General	ABSN-24UC	59,248,843.06	0.0162	959,831.26
Auckland	General	ABSN-FIXD	1,727,587.00	1.7400	3,006,001.38
Auckland	General	ABSN-INJT	69,362.20	-	-
Auckland	General	ABSU-24UC	14,124,905.46	0.0237	334,760.26
Auckland	General	ABSU-FIXD	27,217,166.00	0.0617	1,679,299.14
Auckland	Transformer	ATXN-24UC	20,780,172.41	0.0424	881,079.31
Auckland	Transformer	ATXN-CAPY	12,655,175.00	0.0545	689,707.04
Auckland	Transformer	ATXN-FIXD	55,932.00	3.9300	219,812.76
Auckland	Transformer	ATXN-INJT	184,813.53	-	-
Auckland	Transformer	ATXT-24UC	1,116,858,005.00	0.0129	14,407,468.26
Auckland	Transformer	ATXT-CAPY	276,274,860.00	0.0545	15,056,979.87
Auckland	Transformer	ATXT-DAMD	88,794,813.15	0.1321	11,729,794.82
Auckland	Transformer	ATXT-FIXD	376,187.00	3.9300	1,478,414.91
Auckland	Transformer	ATXT-INJT	849,649.00	-	-
Auckland	Transformer	ATXT-PWRF	3,806,043.97	0.2917	1,110,223.03
Auckland	Transformer	ATXTS-24UC	6,766,426.00	0.0129	87,286.90
Auckland	Transformer	ATXTS-CAPY	2,922,845.00	0.0545	159,295.05
Auckland	Transformer	ATXTS-DAMD	631,569.63	0.1321	83,430.35
Auckland	Transformer	ATXTS-FIXD	3,650.00	3.9300	14,344.50
Auckland	Transformer	ATXTS-INJT	720,510.00	-	-
Auckland	Transformer	ATXTS-PWRF	84,040.49	-	-
Auckland	Low voltage	ALVN-24UC	213,936,988.89	0.0424	9,070,928.33
Auckland	Low voltage	ALVN-CAPY	121,711,109.00	0.0568	6,913,190.99

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Auckland	Low voltage	ALVN-FIXD	826,467.00	3.9300	3,248,015.31
Auckland	Low voltage	ALVN-INJT	1,234,353.03	-	-
Auckland	Low voltage	ALVT-24UC	547,023,276.00	0.0129	7,056,600.26
Auckland	Low voltage	ALVT-CAPY	158,239,015.00	0.0568	8,987,976.05
Auckland	Low voltage	ALVT-DAMD	47,029,191.08	0.1321	6,212,556.14
Auckland	Low voltage	ALVT-FIXD	601,580.00	3.9300	2,364,209.40
Auckland	Low voltage	ALVT-INJT	1,318,991.00	-	-
Auckland	Low voltage	ALVT-PWRF	3,277,164.28	0.2917	955,948.82
Auckland	Low voltage	ALVTS-24UC	2,326,730.00	0.0129	30,014.82
Auckland	Low voltage	ALVTS-CAPY	1,188,805.00	0.0568	67,524.12
Auckland	Low voltage	ALVTS-DAMD	272,086.13	0.1321	35,942.58
Auckland	Low voltage	ALVTS-FIXD	4,015.00	3.9300	15,778.95
Auckland	Low voltage	ALVTS-INJT	431,617.00	-	-
Auckland	Low voltage	ALVTS-PWRF	39,610.72	-	-
Auckland	High voltage	AHVN-24UC	472,082.24	0.0424	20,016.29
Auckland	High voltage	AHVN-CAPY	445,347.00	0.0523	23,291.65
Auckland	High voltage	AHVN-FIXD	1,868.00	3.9300	7,341.24
Auckland	High voltage	AHVT-24UC	452,351,740.00	0.0129	5,835,337.45
Auckland	High voltage	AHVT-CAPY	75,287,850.00	0.0523	3,937,554.56
Auckland	High voltage	AHVT-DAMD	34,578,822.41	0.1321	4,567,862.44
Auckland	High voltage	AHVT-DEXA	51,425.52	0.8000	41,140.42
Auckland	High voltage	AHVT-FIXD	55,680.00	3.9300	218,822.40
Auckland	High voltage	AHVT-INJT	1,505,952.00	-	-
Auckland	High voltage	AHVT-PWRF	1,229,771.26	0.2917	358,724.28
Auckland	High voltage	AHVTS-24UC	534,410.00	0.0129	6,893.89
Auckland	High voltage	AHVTS-CAPY	732,030.00	0.0523	38,285.17
Auckland	High voltage	AHVTS-DAMD	58,380.15	0.1321	7,712.02
Auckland	High voltage	AHVTS-DEXA	-	0.8000	-
Auckland	High voltage	AHVTS-FIXD	394.00	3.9300	1,548.42
Auckland	High voltage	AHVTS-INJT	592,303.00	-	-
Auckland	High voltage	AHVTS-PWRF	72,471.85	-	-

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Auckland	Zone substation	AZST-24UC	162,919,378.00	0.0059	961,224.33
Auckland	Zone substation	AZST-CAPY	21,081,630.00	0.1279	2,696,340.48
Auckland	Zone substation	AZST-DAMD	11,664,361.20	0.0243	283,443.98
Auckland	Zone substation	AZST-DEXA	13,730.84	0.8000	10,984.67
Auckland	Zone substation	AZST-FIXD	2,133.00	3.9300	8,382.69
Auckland	Zone substation	AZST-INJT	176,033.00	-	-
Auckland	Zone substation	AZST-PWRF	739,671.43	0.2917	215,762.16
Northern	Residential	WRHLC-FIXD	30,110,677.00	0.6000	18,066,406.20
Northern	Residential	WRHLC-INJT	4,145,119.50	-	-
Northern	Residential	WRHLC-OFPK	310,187,376.50	0.0378	11,725,082.83
Northern	Residential	WRHLC-PEAK	52,894,627.37	0.0378	1,999,416.91
Northern	Residential	WRHLC-PEAK	81,506,602.40	0.1361	11,093,048.59
Northern	Residential	WRHLU-FIXD	14,871,433.00	0.6000	8,922,859.80
Northern	Residential	WRHLU-INJT	4,507,106.52	-	-
Northern	Residential	WRHLU-OFPK	147,144,530.96	0.0378	5,562,063.27
Northern	Residential	WRHLU-PEAK	23,993,288.47	0.0378	906,946.30
Northern	Residential	WRHLU-PEAK	34,765,579.65	0.1361	4,731,595.39
Northern	Residential	WRHSC-FIXD	23,836,550.00	1.4300	34,086,266.50
Northern	Residential	WRHSC-INJT	3,049,507.10	-	-
Northern	Residential	WRHSC-OFPK	452,493,601.24	-	-
Northern	Residential	WRHSC-PEAK	79,134,695.28	-	-
Northern	Residential	WRHSC-PEAK	112,156,424.18	0.0983	11,024,976.50
Northern	Residential	WRHSU-FIXD	12,656,011.00	1.4300	18,098,095.73
Northern	Residential	WRHSU-INJT	4,218,116.84	-	-
Northern	Residential	WRHSU-OFPK	211,645,807.38	-	-
Northern	Residential	WRHSU-PEAK	36,219,330.18	-	-
Northern	Residential	WRHSU-PEAK	47,154,461.13	0.0983	4,635,283.53
Northern	Residential	WRNLC-AICO	15,049,501.79	0.0540	812,673.10
Northern	Residential	WRNLC-FIXD	1,044,270.00	0.6000	626,562.00
Northern	Residential	WRNLC-INJT	67,853.08	-	-

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Northern	Residential	WRNLU-24UC	4,201,531.25	0.0540	226,882.69
Northern	Residential	WRNLU-FIXD	320,289.00	0.6000	192,173.40
Northern	Residential	WRNLU-INJT	73,863.77	-	-
Northern	Residential	WRNSC-AICO	23,687,934.68	0.0162	383,744.54
Northern	Residential	WRNSC-FIXD	944,976.00	1.4300	1,351,315.68
Northern	Residential	WRNSC-INJT	59,716.01	-	-
Northern	Residential	WRNSU-24UC	9,695,404.69	0.0162	157,065.56
Northern	Residential	WRNSU-FIXD	736,369.00	1.4300	1,053,007.67
Northern	Residential	WRNSU-INJT	112,075.45	-	-
Northern	General	WBSH-FIXD	6,901,147.00	1.7400	12,007,995.78
Northern	General	WBSH-INJT	1,037,532.13	-	-
Northern	General	WBSH-OFPK	242,159,885.34	-	-
Northern	General	WBSH-PEAK	49,009,202.63	-	-
Northern	General	WBSH-PEAK	54,240,926.27	0.0983	5,331,883.05
Northern	General	WBSN-24UC	31,373,810.17	0.0162	508,255.72
Northern	General	WBSN-FIXD	1,230,593.00	1.7400	2,141,231.82
Northern	General	WBSN-INJT	71,176.56	-	-
Northern	General	WBSU-24UC	8,894,168.01	0.0237	210,791.78
Northern	General	WBSU-FIXD	17,570,949.00	0.0617	1,084,127.55
Northern	Transformer	WTXH-24UC	440,220,911.00	0.0073	3,213,612.65
Northern	Transformer	WTXH-CAPY	114,164,363.00	0.0545	6,221,957.78
Northern	Transformer	WTXH-DAMD	34,690,493.19	0.1321	4,582,614.15
Northern	Transformer	WTXH-FIXD	156,066.00	11.1500	1,740,135.90
Northern	Transformer	WTXH-INJT	89,271.00	-	-
Northern	Transformer	WTXH-PWRF	1,445,098.20	0.2917	421,535.14
Northern	Transformer	WTXHS-24UC	3,898,481.00	0.0073	28,458.91
Northern	Transformer	WTXHS-CAPY	930,750.00	0.0545	50,725.88
Northern	Transformer	WTXHS-DAMD	293,171.85	0.1321	38,728.00
Northern	Transformer	WTXHS-FIXD	1,460.00	11.1500	16,279.00
Northern	Transformer	WTXHS-PWRF	32,561.83	-	-
Northern	Transformer	WTXHS-INJT	126,802.00	-	-

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Northern	Transformer	WTXN-24UC	14,014,269.45	0.0250	350,356.74
Northern	Transformer	WTXN-CAPY	6,483,735.00	0.0545	353,363.56
Northern	Transformer	WTXN-FIXD	27,989.00	5.9200	165,694.88
Northern	Transformer	WTXN-INJT	4,007.70	-	-
Northern	Low voltage	WLVH-24UC	158,034,932.00	0.0073	1,153,655.00
Northern	Low voltage	WLVH-CAPY	39,314,341.00	0.0568	2,233,054.57
Northern	Low voltage	WLVH-DAMD	13,395,272.75	0.1321	1,769,515.53
Northern	Low voltage	WLVH-FIXD	168,548.00	11.1500	1,879,310.20
Northern	Low voltage	WLVH-INJT	132,568.00	-	-
Northern	Low voltage	WLVH-PWRF	864,168.26	0.2917	252,077.88
Northern	Low voltage	WLVHS-24UC	2,470,615.00	0.0073	18,035.49
Northern	Low voltage	WLVHS-CAPY	697,150.00	0.0568	39,598.12
Northern	Low voltage	WLVHS-DAMD	250,918.09	0.1321	33,146.28
Northern	Low voltage	WLVHS-FIXD	2,920.00	11.1500	32,558.00
Northern	Low voltage	WLVHS-PWRF	88,448.45	-	-
Northern	Low voltage	WLVHS-INJT	277,063.00	-	-
Northern	Low voltage	WLVN-24UC	90,352,146.99	0.0250	2,258,803.67
Northern	Low voltage	WLVN-CAPY	42,383,089.00	0.0568	2,407,359.46
Northern	Low voltage	WLVN-FIXD	293,536.00	5.9200	1,737,733.12
Northern	Low voltage	WLVN-INJT	244,306.12	-	-
Northern	High voltage	WHVH-24UC	152,847,307.00	0.0073	1,115,785.34
Northern	High voltage	WHVH-CAPY	22,958,955.00	0.0523	1,200,753.35
Northern	High voltage	WHVH-DAMD	10,280,561.73	0.1321	1,358,062.20
Northern	High voltage	WHVH-DEXA	153,980.29	0.8000	123,184.23
Northern	High voltage	WHVH-FIXD	11,894.00	11.1500	132,618.10
Northern	High voltage	WHVH-INJT	6,730.00	-	-
Northern	High voltage	WHVH-PWRF	130,475.53	0.2917	38,059.71
Northern	Sub-transmission	WSTH-CAPY	60,000.00	0.1023	6,138.00
Northern	Sub-transmission	WSTH-DAMD	-	0.0243	-
Northern	Sub-transmission	WSTH-DEXA	-	0.8000	-
Northern	Sub-transmission	WSTH-FIXD	10.00	3.9300	39.30

Network	Consumer Group	Price category & code	Qi2025	Pi2025 ($)	Pi 2025 x Qi 2025 ($)
Northern	Sub-transmission	WSTH-PWRF	-	0.2917	-

Table 31: PY2024 total line charge revenues

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Auckland	Residential	ARHLC-FIXD	40,090,952.00	0.4500	18,040,928.40
Auckland	Residential	ARHLC-INJT	1,992,052.07	-	-
Auckland	Residential	ARHLC-OFPK	211,885,827.84	0.0378	8,009,284.29
Auckland	Residential	ARHLC-OFPK	215,490,482.71	0.0378	8,145,540.25
Auckland	Residential	ARHLC-PEAK	86,093,064.30	0.0378	3,254,317.83
Auckland	Residential	ARHLC-PEAK	96,217,563.68	0.1313	12,633,366.11
Auckland	Residential	ARHLU-FIXD	16,606,407.00	0.4500	7,472,883.15
Auckland	Residential	ARHLU-INJT	2,480,514.64	-	-
Auckland	Residential	ARHLU-OFPK	67,911,805.28	0.0387	2,628,186.86
Auckland	Residential	ARHLU-OFPK	81,257,259.10	0.0387	3,144,655.93
Auckland	Residential	ARHLU-PEAK	29,615,930.57	0.0387	1,146,136.51
Auckland	Residential	ARHLU-PEAK	37,799,635.87	0.1322	4,997,111.86
Auckland	Residential	ARHSC-FIXD	16,980,098.00	1.2800	21,734,525.44
Auckland	Residential	ARHSC-INJT	1,246,601.73	-	-
Auckland	Residential	ARHSC-OFPK	128,767,915.02	-	-
Auckland	Residential	ARHSC-OFPK	228,300,005.96	-	-
Auckland	Residential	ARHSC-PEAK	51,610,424.42	-	-
Auckland	Residential	ARHSC-PEAK	99,047,994.54	0.0935	9,260,987.49
Auckland	Residential	ARHSU-FIXD	7,250,446.00	1.3000	9,425,579.80
Auckland	Residential	ARHSU-INJT	1,264,581.85	-	-
Auckland	Residential	ARHSU-OFPK	65,770,645.71	-	-
Auckland	Residential	ARHSU-OFPK	75,967,694.47	-	-
Auckland	Residential	ARHSU-PEAK	27,991,735.37	-	-
Auckland	Residential	ARHSU-PEAK	35,148,200.77	0.0935	3,286,356.77
Auckland	Residential	ARNLC-AICO	202,394,362.06	0.0542	10,969,774.42
Auckland	Residential	ARNLC-FIXD	12,824,347.00	0.4500	5,770,956.15
Auckland	Residential	ARNLC-INJT	852,240.22	-	-
Auckland	Residential	ARNLU-24UC	81,885,817.85	0.0551	4,511,908.56
Auckland	Residential	ARNLU-FIXD	6,645,225.00	0.4500	2,990,351.25
Auckland	Residential	ARNLU-INJT	810,252.75	-	-

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Auckland	Residential	ARNSC-AICO	243,144,738.11	0.0164	3,987,573.71
Auckland	Residential	ARNSC-FIXD	9,650,567.00	1.2800	12,352,725.76
Auckland	Residential	ARNSC-INJT	666,676.09	-	-
Auckland	Residential	ARNSU-24UC	121,448,255.10	0.0164	1,991,751.38
Auckland	Residential	ARNSU-FIXD	7,305,579.00	1.3000	9,497,252.70
Auckland	Residential	ARNSU-INJT	1,038,963.90	-	-
Auckland	General	ABSH-FIXD	5,377,057.00	1.5200	8,173,126.64
Auckland	General	ABSH-INJT	516,317.53	-	-
Auckland	General	ABSH-OFPK	121,810,806.56	-	-
Auckland	General	ABSH-OFPK	118,300,348.95	-	-
Auckland	General	ABSH-PEAK	47,780,905.31	-	-
Auckland	General	ABSH-PEAK	49,092,605.55	0.0935	4,590,158.62
Auckland	General	ABSN-24UC	354,363,066.82	0.0164	5,811,554.30
Auckland	General	ABSN-FIXD	8,063,361.00	1.5200	12,256,308.72
Auckland	General	ABSN-INJT	618,890.44	-	-
Auckland	Unmetered	ABSU-24UC	15,700,322.93	0.0226	354,827.30
Auckland	Unmetered	ABSU-FIXD	27,101,537.00	0.0550	1,490,584.54
Auckland	Low voltage	ALVN-24UC	226,022,219.72	0.0424	9,583,342.12
Auckland	Low voltage	ALVN-CAPY	123,812,425.00	0.0469	5,806,802.73
Auckland	Low voltage	ALVN-FIXD	840,413.00	2.1000	1,764,867.30
Auckland	Low voltage	ALVN-INJT	1,003,211.33	-	-
Auckland	Low voltage	ALVN-PWRF	7,123.42	0.2917	2,077.90
Auckland	Low voltage	ALVT-24UC	549,426,718.00	0.0129	7,087,604.66
Auckland	Low voltage	ALVT-CAPY	153,196,488.00	0.0469	7,184,915.29
Auckland	Low voltage	ALVT-DAMD	46,874,973.79	0.1364	6,393,746.42
Auckland	Low voltage	ALVT-FIXD	575,510.00	2.1000	1,208,571.00
Auckland	Low voltage	ALVT-INJT	581,372.00	-	-
Auckland	Low voltage	ALVT-PWRF	3,486,335.82	0.2917	1,016,964.16
Auckland	High voltage	AHVN-24UC	531,746.45	0.0424	22,546.05
Auckland	High voltage	AHVN-CAPY	468,846.00	0.0432	20,254.15
Auckland	High voltage	AHVN-FIXD	2,196.00	2.1000	4,611.60

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Auckland	High voltage	AHVN-PWRF	2,650.54	0.2917	773.16
Auckland	High voltage	AHVT-24UC	426,280,791.00	0.0129	5,499,022.20
Auckland	High voltage	AHVT-CAPY	71,247,237.00	0.0432	3,077,880.64
Auckland	High voltage	AHVT-DAMD	32,375,833.18	0.1257	4,069,642.23
Auckland	High voltage	AHVT-DEXA	69,501.63	0.8000	55,601.30
Auckland	High voltage	AHVT-FIXD	55,794.00	2.1000	117,167.40
Auckland	High voltage	AHVT-INJT	1,915,797.00	-	-
Auckland	High voltage	AHVT-PWRF	1,100,583.86	0.2917	321,040.31
Auckland	Transformer	ATXN-24UC	21,899,417.76	0.0424	928,535.31
Auckland	Transformer	ATXN-CAPY	12,890,637.00	0.0450	580,078.67
Auckland	Transformer	ATXN-FIXD	56,844.00	2.1000	119,372.40
Auckland	Transformer	ATXN-INJT	151,459.02	-	-
Auckland	Transformer	ATXN-PWRF	-	0.2917	-
Auckland	Transformer	ATXT-24UC	1,139,721,915.00	0.0129	14,702,412.70
Auckland	Transformer	ATXT-CAPY	275,172,346.00	0.0450	12,382,755.57
Auckland	Transformer	ATXT-DAMD	90,829,121.93	0.1309	11,889,532.06
Auckland	Transformer	ATXT-FIXD	375,231.00	2.1000	787,985.10
Auckland	Transformer	ATXT-INJT	1,276,158.00	-	-
Auckland	Transformer	ATXT-PWRF	3,870,983.00	0.2917	1,129,165.74
Auckland	Zone substation	AZST-24UC	60,131,635.00	0.0059	354,776.65
Auckland	Zone substation	AZST-CAPY	10,324,860.00	0.1050	1,084,110.30
Auckland	Zone substation	AZST-DAMD	5,407,178.39	0.0261	141,127.36
Auckland	Zone substation	AZST-DEXA	68,452.65	0.8000	54,762.12
Auckland	Zone substation	AZST-FIXD	732.00	2.1000	1,537.20
Auckland	Zone substation	AZST-INJT	255,098.00	-	-
Auckland	Zone substation	AZST-PWRF	250,366.23	0.2917	73,031.83
Northern	Residential	WRHLC-FIXD	25,163,773.00	0.4500	11,323,697.85
Northern	Residential	WRHLC-INJT	1,720,625.86	-	-
Northern	Residential	WRHLC-OFPK	119,110,138.63	0.0387	4,609,562.36
Northern	Residential	WRHLC-OFPK	140,190,940.95	0.0387	5,425,389.41

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Northern	Residential	WRHLC-PEAK	48,468,410.68	0.0387	1,875,727.49
Northern	Residential	WRHLC-PEAK	62,661,160.47	0.1322	8,283,805.41
Northern	Residential	WRHLU-FIXD	11,178,430.00	0.4500	5,030,293.50
Northern	Residential	WRHLU-INJT	2,177,290.09	-	-
Northern	Residential	WRHLU-OFPK	54,592,696.54	0.0387	2,112,737.36
Northern	Residential	WRHLU-OFPK	57,984,773.20	0.0387	2,244,010.72
Northern	Residential	WRHLU-PEAK	22,140,688.38	0.0387	856,844.64
Northern	Residential	WRHLU-PEAK	27,280,305.21	0.1322	3,606,456.35
Northern	Residential	WRHSC-FIXD	16,596,201.00	1.3000	21,575,061.30
Northern	Residential	WRHSC-INJT	1,372,585.58	-	-
Northern	Residential	WRHSC-OFPK	159,305,611.26	-	-
Northern	Residential	WRHSC-OFPK	183,641,069.22	-	-
Northern	Residential	WRHSC-PEAK	63,778,534.04	-	-
Northern	Residential	WRHSC-PEAK	79,836,233.09	0.0935	7,464,687.79
Northern	Residential	WRHSU-FIXD	7,095,684.00	1.3000	9,224,389.20
Northern	Residential	WRHSU-INJT	1,646,709.81	-	-
Northern	Residential	WRHSU-OFPK	70,099,342.97	-	-
Northern	Residential	WRHSU-OFPK	67,173,317.64	-	-
Northern	Residential	WRHSU-PEAK	28,179,902.78	-	-
Northern	Residential	WRHSU-PEAK	31,696,257.02	0.0935	2,963,600.03
Northern	Residential	WRNLC-AICO	128,799,542.38	0.0551	7,096,854.79
Northern	Residential	WRNLC-FIXD	7,948,330.00	0.4500	3,576,748.50
Northern	Residential	WRNLC-INJT	1,117,887.83	-	-
Northern	Residential	WRNLU-24UC	51,713,788.45	0.0551	2,849,429.74
Northern	Residential	WRNLU-FIXD	3,518,931.00	0.4500	1,583,518.95
Northern	Residential	WRNLU-INJT	1,108,630.33	-	-
Northern	Residential	WRNSC-AICO	185,742,674.80	0.0164	3,046,179.87
Northern	Residential	WRNSC-FIXD	6,815,905.00	1.3000	8,860,676.50
Northern	Residential	WRNSC-INJT	813,829.82	-	-
Northern	Residential	WRNSU-24UC	91,506,361.15	0.0164	1,500,704.32
Northern	Residential	WRNSU-FIXD	4,788,852.00	1.3000	6,225,507.60

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Northern	Residential	WRNSU-INJT	1,287,781.79	-	-
Northern	General	ABSN-24UC	24.33	0.0164	0.40
Northern	General	ABSN-FIXD	250.00	1.5200	380.00
Northern	General	WBSH-FIXD	4,688,806.00	1.5200	7,126,985.12
Northern	General	WBSH-INJT	351,077.82	-	-
Northern	General	WBSH-OFPK	90,829,803.85	-	-
Northern	General	WBSH-OFPK	80,301,136.94	-	-
Northern	General	WBSH-PEAK	35,986,525.49	-	-
Northern	General	WBSH-PEAK	33,722,829.37	0.0935	3,153,084.55
Northern	General	WBSN-24UC	138,372,747.31	0.0164	2,269,313.06
Northern	General	WBSN-FIXD	3,638,018.00	1.5200	5,529,787.36
Northern	General	WBSN-INJT	416,921.75	-	-
Northern	Unmetered	WBSU-24UC	9,853,703.98	0.0226	222,693.71
Northern	Unmetered	WBSU-FIXD	17,428,083.00	0.0550	958,544.57
Northern	Low voltage	WLVH-24UC	158,339,323.00	0.0059	934,202.01
Northern	Low voltage	WLVH-CAPY	37,169,896.00	0.0436	1,620,607.47
Northern	Low voltage	WLVH-DAMD	13,133,946.23	0.1249	1,640,429.88
Northern	Low voltage	WLVH-FIXD	156,518.00	11.1500	1,745,175.70
Northern	Low voltage	WLVH-INJT	279,372.00	-	-
Northern	Low voltage	WLVH-PWRF	923,937.44	0.2917	269,512.55
Northern	Low voltage	WLVN-24UC	95,771,921.15	0.0202	1,934,592.81
Northern	Low voltage	WLVN-CAPY	43,686,212.00	0.0436	1,904,718.84
Northern	Low voltage	WLVN-FIXD	301,976.00	5.9200	1,787,697.92
Northern	Low voltage	WLVN-INJT	200,014.26	-	-
Northern	Low voltage	WLVN-PWRF	-	0.2917	-
Northern	High voltage	WHVH-24UC	144,929,305.00	0.0059	855,082.90
Northern	High voltage	WHVH-CAPY	22,451,592.00	0.0402	902,554.00
Northern	High voltage	WHVH-DAMD	10,569,789.91	0.1151	1,216,582.82
Northern	High voltage	WHVH-DEXA	376,203.62	0.8000	300,962.90
Northern	High voltage	WHVH-FIXD	11,498.00	11.1500	128,202.70
Northern	High voltage	WHVH-INJT	15,953.00	-	-

Network	Consumer group	Price category & code	Qi2024	Pi2024 ($)	Pi 2024 x Qi 2024 ($)
Northern	High voltage	WHVH-PWRF	283,656.62	0.2917	82,742.64
Northern	Transformer	WTXH-24UC	409,024,764.00	0.0059	2,413,246.11
Northern	Transformer	WTXH-CAPY	100,776,879.00	0.0419	4,222,551.23
Northern	Transformer	WTXH-DAMD	32,863,041.35	0.1199	3,940,278.66
Northern	Transformer	WTXH-FIXD	144,153.00	11.1500	1,607,305.95
Northern	Transformer	WTXH-INJT	213,450.00	-	-
Northern	Transformer	WTXH-PWRF	1,482,568.37	0.2917	432,465.19
Northern	Transformer	WTXN-24UC	15,149,065.65	0.0202	306,011.13
Northern	Transformer	WTXN-CAPY	6,703,594.00	0.0419	280,880.59
Northern	Transformer	WTXN-FIXD	28,835.00	5.9200	170,703.20
Northern	Transformer	WTXN-PWRF	-	0.2917	-

Table 32: PY2025 Transmission revenues under the GXP methodology

Network	Price category and code		Description	Units	Pi,2025 ($)	Qi,2025	Pi,2025 Qi,2025 ($)
Auckland	GXP	HEP	Fixed	$/month per 1/1000%	11.6897	179,263.81	2,095,540.00
Auckland	GXP	HOB	Fixed	$/month per 1/1000%	6.8558	1,193,696.20	8,183,742.00
Auckland	GXP	MNG	Fixed	$/month per 1/1000%	11.1439	1,198,323.97	13,354,002.00
Auckland	GXP	OTA	Fixed	$/month per 1/1000%	5.3994	1,190,093.04	6,425,788.00
Auckland	GXP	PAK	Fixed	$/month per 1/1000%	11.8509	1,197,096.17	14,186,667.00
Auckland	GXP	PEN	Fixed	$/month per 1/1000%	38.3768	1,193,911.61	45,818,507.00
Auckland	GXP	ROS	Fixed	$/month per 1/1000%	12.5467	1,198,297.91	15,034,684.00
Auckland	GXP	TAK	Fixed	$/month per 1/1000%	9.2136	1,197,334.11	11,031,758.00
Auckland	GXP	WIR	Fixed	$/month per 1/1000%	9.9230	1,196,669.80	11,874,554.00
Northern	GXP	ALB	Fixed	$/month per 1/1000%	17.0062	1,195,553.53	20,331,822.00
Northern	GXP	HEN	Fixed	$/month per 1/1000%	8.3912	1,199,642.88	10,066,443.00
Northern	GXP	HEP	Fixed	$/month per 1/1000%	11.6897	1,019,797.88	11,921,131.00
Northern	GXP	LFD	Fixed	$/month per 1/1000%	0.8179	1,200,000.00	981,480.00
Northern	GXP	SVL	Fixed	$/month per 1/1000%	7.4768	1,194,071.16	8,927,832.00
Northern	GXP	WEL	Fixed	$/month per 1/1000%	3.0732	1,199,691.47	3,686,893.00
Northern	GXP	WRD	Fixed	$/month per 1/1000%	6.8627	1,199,603.07	8,232,517.00

Table 33: PY2024 Transmission revenues under the GXP methodology

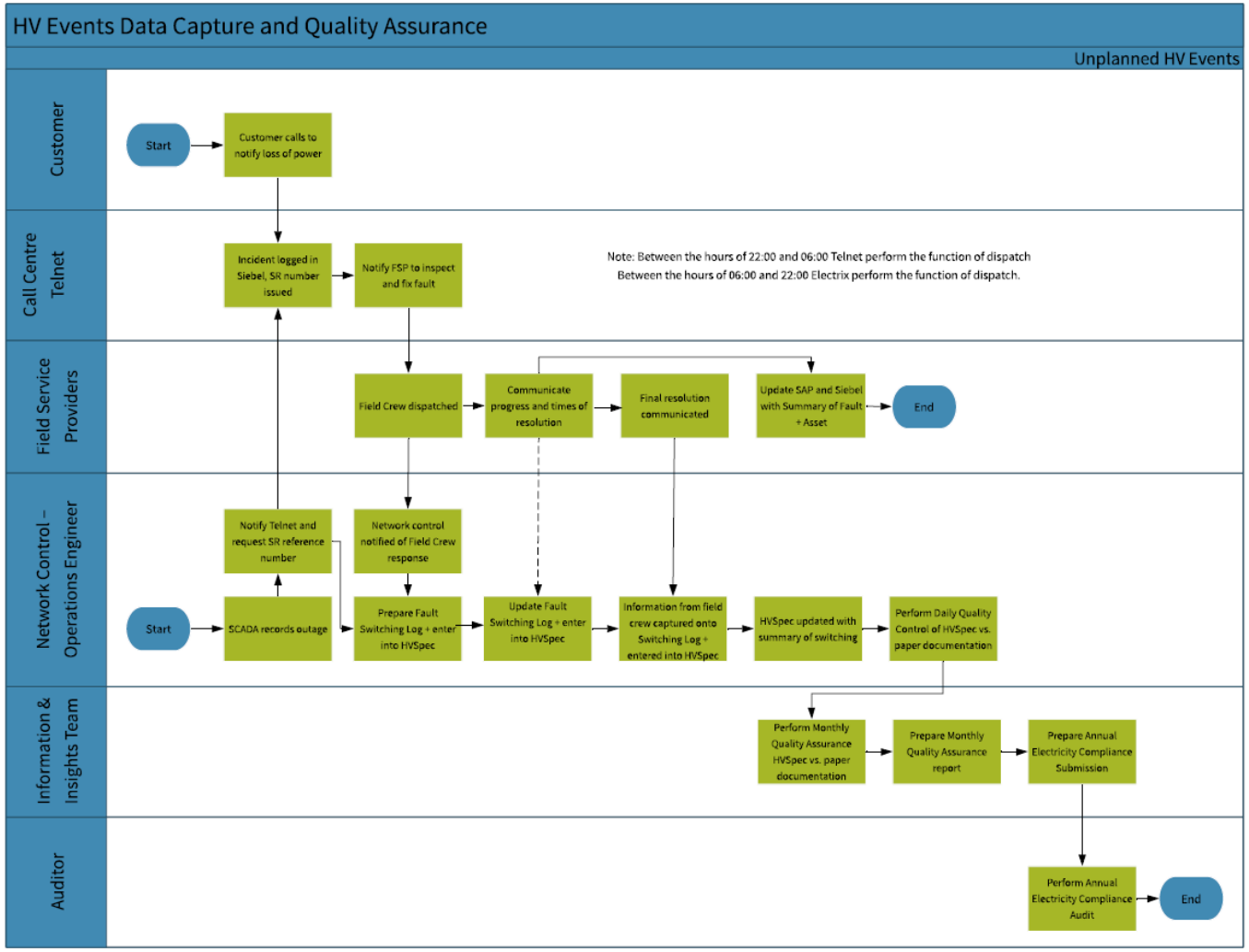
Network	Price category and code		Description	Units	Pi,2024 ($)	Qi,2024	Pi,2024 Qi,2024 ($)
Auckland	GXP	HEP	Fixed	$/month per 1/1000%	11.2512	183,781	2,067,766.00
Auckland	GXP	HOB	Fixed	$/month per 1/1000%	6.3706	1,200,000	7,644,668.00
Auckland	GXP	MNG	Fixed	$/month per 1/1000%	10.7517	1,200,000	12,902,028.00
Auckland	GXP	OTA	Fixed	$/month per 1/1000%	5.2323	1,200,000	6,278,799.00
Auckland	GXP	PAK	Fixed	$/month per 1/1000%	11.5513	1,200,000	13,861,508.00
Auckland	GXP	PEN	Fixed	$/month per 1/1000%	38.0383	1,200,000	45,645,977.00
Auckland	GXP	ROS	Fixed	$/month per 1/1000%	12.1752	1,200,000	14,610,189.00
Auckland	GXP	TAK	Fixed	$/month per 1/1000%	8.8356	1,200,000	10,602,759.00
Auckland	GXP	WIR	Fixed	$/month per 1/1000%	9.5088	1,200,000	11,410,614.00
Northern	GXP	ALB	Fixed	$/month per 1/1000%	16.5105	1,200,000	19,812,653.00
Northern	GXP	HEN	Fixed	$/month per 1/1000%	8.1971	1,200,000	9,836,569.00
Northern	GXP	HEP	Fixed	$/month per 1/1000%	11.2512	1,016,219	11,433,707.00
Northern	GXP	LFD	Fixed	$/month per 1/1000%	0.7453	1,200,000	894,333.00
Northern	GXP	SVL	Fixed	$/month per 1/1000%	7.8875	1,200,000	9,464,958.00
Northern	GXP	WEL	Fixed	$/month per 1/1000%	2.9292	1,200,000	3,515,048.00
Northern	GXP	WRD	Fixed	$/month per 1/1000%	6.6606	1,200,000	7,992,759.00

Appendix 2: Quality incentive adjustment

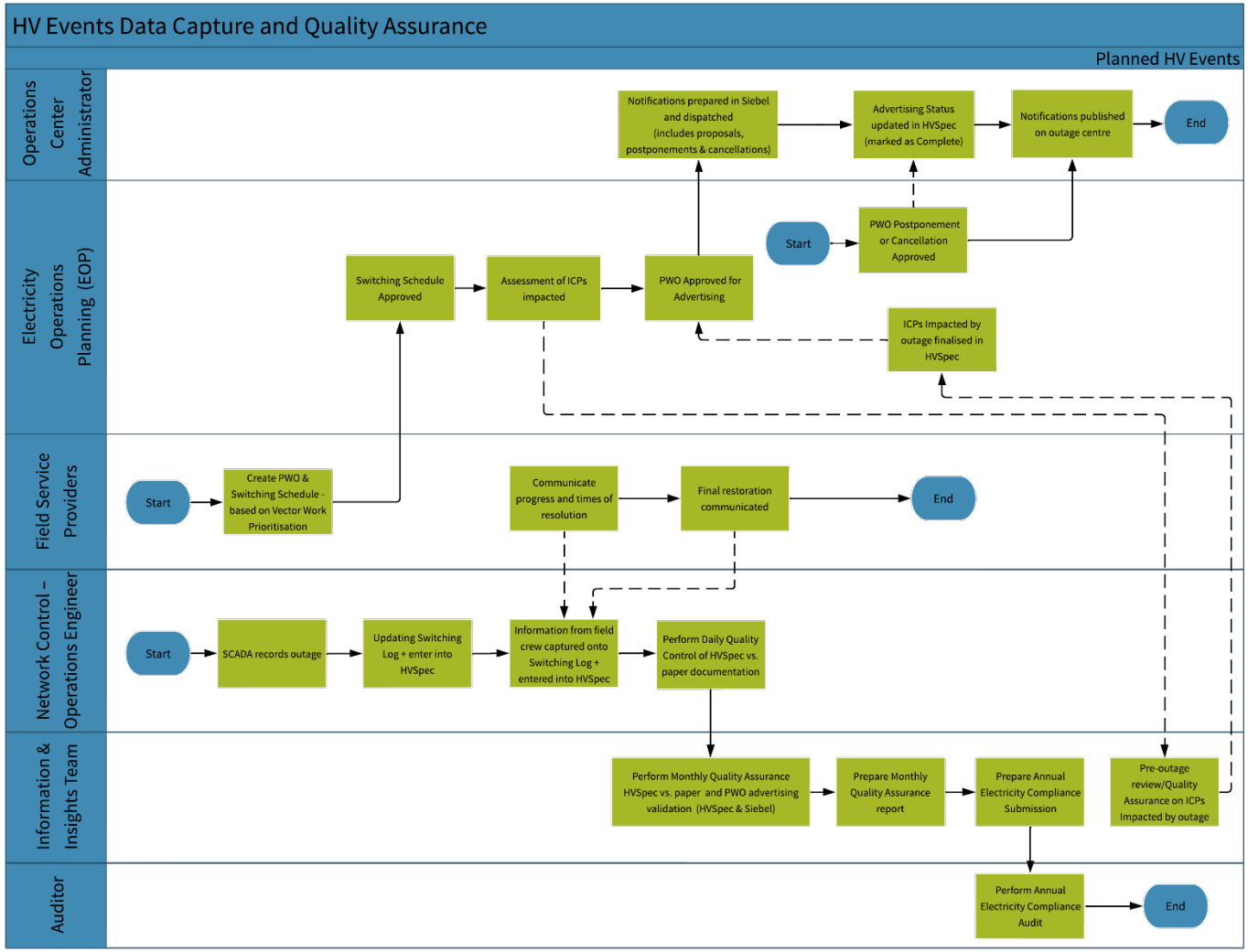
Table 34: Quality Incentive Adjustment				
Formula: $REV_{RISK} = 0.02 \times ANAR_{2025}$				
$ANAR_{2025}$				$472,369,000
REV_{RISK}				$9,447,380
Formulae:	$A = (SAIDI_{unplanned.target} - SAIDI_{unplanned.assessed}) * IR$;		$B = (SAIDI_{planned.target} - SAIDI_{planned.assessed}) * 0.5 * IR$	
Component	**A ($SAIDI_{unplanned}$)**		**B ($SAIDI_{planned}$)**	
cap[41]	104.83		117.08	
target - assess	89.28 – 76.56	12.72	39.03 – 49.18	-10.15
Multiplier	1	12.72	0.5	-5.075
Incentive rate (IR)	84,519	**A = 1,075,082**	84,519	**B = ($428,934)**
Formula: Quality incentive adjustment = min (REV_{RISK} or A + B) × (1 + 67th percentile estimate of post-tax WACC)^2				
min (REV_{RISK} or A + B)	min ($9,447,380 or 646,148)			646,148
Time value of money (WACC = 4.23%)				55,820
Quality Incentive Adjustment for the assessment period 2027				**701,968**

[41] Where $SAIDI_{unplanned/planned, assessed}$ is greater than the SAIDI unplanned/planned interruption cap specified for the non-exempt EDB for the assessment period set out in Tables 4.1 and 4.2 of Schedule 4 of the Determination, $SAIDI_{unplanned/planned, assessed}$ equals the SAIDI unplanned/planned interruption cap.

Appendix 3a: HVSPEC data capture and quality assurance – unplanned



Appendix 3b: HVSPEC data capture and quality assurance – planned



Appendix 4a: Major SAIDI events

SAIDI Major Event ME1 details (Reference: Table 22)								
Date and time (half-hour commencing)	SAIDI (half-hour)	SAIDI (previous 24-hour)	SAIDI (max rolling 24-hour)	Major SAIDI Event	Boundary Value	Normalised SAIDI	Normalised or not	1/48 Boundary Value
28/05/2024 17:00	0	0.149092484	5.376698501	Yes	4.83	0	No	0.100625
28/05/2024 17:30	0	0.149092484	7.254240459	Yes	4.83	0	No	0.100625
28/05/2024 18:00	0	0.149092484	7.556928664	Yes	4.83	0	No	0.100625
28/05/2024 18:30	0	0.149092484	8.655111714	Yes	4.83	0	No	0.100625
28/05/2024 19:00	0	0.149092484	9.598815647	Yes	4.83	0	No	0.100625
28/05/2024 19:30	0	0.149092484	13.773771	Yes	4.83	0	No	0.100625
28/05/2024 20:00	0	0.149092484	14.0726525	Yes	4.83	0	No	0.100625
28/05/2024 20:30	0.001915354	0.151007838	17.4456976	Yes	4.83	0.001915354	No	0.100625
28/05/2024 21:00	0	0.151007838	17.5912613	Yes	4.83	0	No	0.100625
28/05/2024 21:30	0	0.151007838	17.6835641	Yes	4.83	0	No	0.100625
28/05/2024 22:00	0	0.151007838	18.1240108	Yes	4.83	0	No	0.100625
28/05/2024 22:30	0	0.151007838	18.2854884	Yes	4.83	0	No	0.100625
28/05/2024 23:00	0	0.151007838	18.463439	Yes	4.83	0	No	0.100625
28/05/2024 23:30	0	0.151007838	18.4900079	Yes	4.83	0	No	0.100625
29/05/2024 0:00	0	0.151007838	18.4900079	Yes	4.83	0	No	0.100625
29/05/2024 0:30	0	0.151007838	18.4900079	Yes	4.83	0	No	0.100625
29/05/2024 1:00	0	0.151007838	18.4900079	Yes	4.83	0	No	0.100625
29/05/2024 1:30	0	0.151007838	18.4900079	Yes	4.83	0	No	0.100625
29/05/2024 2:00	0	0.151007838	18.5648585	Yes	4.83	0	No	0.100625
29/05/2024 2:30	0	0.151007838	18.5648585	Yes	4.83	0	No	0.100625
29/05/2024 3:00	0	0.151007838	18.5648585	Yes	4.83	0	No	0.100625

SAIDI Major Event ME1 details (Reference: Table 22)								
Date and time (half-hour commencing)	SAIDI (half-hour)	SAIDI (previous 24-hour)	SAIDI (max rolling 24-hour)	Major SAIDI Event	Boundary Value	Normalised SAIDI	Normalised or not	1/48 Boundary Value
29/05/2024 3:30	0	0.151007838	18.5648585	Yes	4.83	0	No	0.100625
29/05/2024 4:00	0	0.151007838	18.5648585	Yes	4.83	0	No	0.100625
29/05/2024 4:30	0	0.151007838	18.6477091	Yes	4.83	0	No	0.100625
29/05/2024 5:00	0	0.151007838	18.6477091	Yes	4.83	0	No	0.100625
29/05/2024 5:30	0	0.151007838	18.6477091	Yes	4.83	0	No	0.100625
29/05/2024 6:00	0	0.151007838	18.6477091	Yes	4.83	0	No	0.100625
29/05/2024 6:30	0	0.151007838	18.6477091	Yes	4.83	0	No	0.100625
29/05/2024 7:00	0	0.151007838	18.6525174	Yes	4.83	0	No	0.100625
29/05/2024 7:30	0	0.151007838	18.6525174	Yes	4.83	0	No	0.100625
29/05/2024 8:00	0	0.151007838	18.7056106	Yes	4.83	0	No	0.100625
29/05/2024 8:30	0	0.151007838	18.8510114	Yes	4.83	0	No	0.100625
29/05/2024 9:00	0	0.09642265	18.8524299	Yes	4.83	0	No	0.100625
29/05/2024 9:30	0	0.09642265	18.8524299	Yes	4.83	0	No	0.100625
29/05/2024 10:00	0.011861136	0.108283786	18.8524299	Yes	4.83	0.011861136	No	0.100625
29/05/2024 10:30	0.04535347	0.147827296	18.8524299	Yes	4.83	0.04535347	No	0.100625
29/05/2024 11:00	0	0.147827296	18.8524299	Yes	4.83	0	No	0.100625
29/05/2024 11:30	0.000814704	0.148642	18.8524299	Yes	4.83	0.000814704	No	0.100625
29/05/2024 12:00	0.258893855	0.407535855	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 12:30	0.201236753	0.608772608	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 13:00	0.967538028	1.544155376	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 13:30	0.246888948	1.791044324	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 14:00	0.30160353	2.092647854	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 14:30	0.042851848	2.135499702	18.8524299	Yes	4.83	0.042851848	No	0.100625
29/05/2024 15:00	1.741171642	3.876671344	18.8524299	Yes	4.83	0.100624999	Yes	0.100625

SAIDI Major Event ME1 details (Reference: Table 22)								
Date and time (half-hour commencing)	SAIDI (half-hour)	SAIDI (previous 24-hour)	SAIDI (max rolling 24-hour)	Major SAIDI Event	Boundary Value	Normalised SAIDI	Normalised or not	1/48 Boundary Value
29/05/2024 15:30	0.537891737	4.391951043	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 16:00	0.317868862	4.709819905	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 16:30	0.700808634	5.376698501	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 17:00	1.877541958	7.254240459	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 17:30	0.302688205	7.556928664	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 18:00	1.09818305	8.655111714	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 18:30	0.943703933	9.598815647	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 19:00	4.174955351	13.773771	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 19:30	0.298881459	14.0726525	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 20:00	3.373045109	17.4456976	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 20:30	0.147479049	17.5912613	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 21:00	0.092302802	17.6835641	18.8524299	Yes	4.83	0.092302802	No	0.100625
29/05/2024 21:30	0.440446714	18.1240108	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 22:00	0.161477586	18.2854884	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 22:30	0.177950587	18.463439	18.8524299	Yes	4.83	0.100625	Yes	0.100625
29/05/2024 23:00	0.026568945	18.4900079	18.8524299	Yes	4.83	0.026568945	No	0.100625
29/05/2024 23:30	0	18.4900079	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 0:00	0	18.4900079	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 0:30	0	18.4900079	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 1:00	0	18.4900079	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 1:30	0.074850558	18.5648585	18.8524299	Yes	4.83	0.074850558	No	0.100625
30/05/2024 2:00	0	18.5648585	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 2:30	0	18.5648585	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 3:00	0	18.5648585	18.8524299	Yes	4.83	0	No	0.100625

SAIDI Major Event ME1 details (Reference: Table 22)								
Date and time (half-hour commencing)	SAIDI (half-hour)	SAIDI (previous 24-hour)	SAIDI (max rolling 24-hour)	Major SAIDI Event	Boundary Value	Normalised SAIDI	Normalised or not	1/48 Boundary Value
30/05/2024 3:30	0	18.5648585	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 4:00	0.082850634	18.6477091	18.8524299	Yes	4.83	0.082850634	No	0.100625
30/05/2024 4:30	0	18.6477091	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 5:00	0	18.6477091	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 5:30	0	18.6477091	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 6:00	0	18.6477091	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 6:30	0.004808353	18.6525174	18.8524299	Yes	4.83	0.004808353	No	0.100625
30/05/2024 7:00	0	18.6525174	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 7:30	0.053093161	18.7056106	18.8524299	Yes	4.83	0.053093161	No	0.100625
30/05/2024 8:00	0.145400755	18.8510114	18.8524299	Yes	4.83	0.100625	Yes	0.100625
30/05/2024 8:30	0.001418544	18.8524299	18.8524299	Yes	4.83	0.001418544	No	0.100625
30/05/2024 9:00	0	18.8524299	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 9:30	0	18.8524299	18.8524299	Yes	4.83	0	No	0.100625
30/05/2024 10:00	0	18.8405688	18.8479075	Yes	4.83	0	No	0.100625
30/05/2024 10:30	0	18.7952153	18.8479075	Yes	4.83	0	No	0.100625
30/05/2024 11:00	0	18.7952153	18.8479075	Yes	4.83	0	No	0.100625
30/05/2024 11:30	0.053506903	18.8479075	18.8479075	Yes	4.83	0.053506903	No	0.100625
30/05/2024 12:00	0	18.5890136	18.5890136	Yes	4.83	0	No	0.100625
30/05/2024 12:30	0.068078927	18.4558558	18.4558558	Yes	4.83	0.068078927	No	0.100625
30/05/2024 13:00	0.002054333	17.4903721	17.4903721	Yes	4.83	0.002054333	No	0.100625
30/05/2024 13:30	0.012613539	17.2560967	17.2560967	Yes	4.83	0.012613539	No	0.100625
30/05/2024 14:00	0.002670952	16.9571641	16.9812538	Yes	4.83	0.002670952	No	0.100625
30/05/2024 14:30	0.066941536	16.9812538	16.9812538	Yes	4.83	0.066941536	No	0.100625
30/05/2024 15:00	0.055016502	15.2950987	15.2950987	Yes	4.83	0.055016502	No	0.100625

SAIDI Major Event ME1 details (Reference: Table 22)								
Date and time (half-hour commencing)	SAIDI (half-hour)	SAIDI (previous 24-hour)	SAIDI (max rolling 24-hour)	Major SAIDI Event	Boundary Value	Normalised SAIDI	Normalised or not	1/48 Boundary Value
30/05/2024 15:30	0.002103854	14.7593108	14.7593108	Yes	4.83	0.002103854	No	0.100625
30/05/2024 16:00	0	14.4414419	14.4414419	Yes	4.83	0	No	0.100625
30/05/2024 16:30	0	13.7406333	13.7406333	Yes	4.83	0	No	0.100625
30/05/2024 17:00	0.004990463	11.8680818	11.8680818	Yes	4.83	0.004990463	No	0.100625
30/05/2024 17:30	0	11.5653936	11.5653936	Yes	4.83	0	No	0.100625
30/05/2024 18:00	0.100639941	10.5678505	10.5678505	Yes	4.83	0.100625001	No	0.100625
30/05/2024 18:30	0	9.62414656	9.62414656	Yes	4.83	0	No	0.100625
30/05/2024 19:00	0	5.44919121	5.44919121	Yes	4.83	0	No	0.100625
30/05/2024 19:30	0	5.15030975	5.15030975	Yes	4.83	0	No	0.100625
SAIDI value before and after normalisation	**19.223**					**2.920**		

Appendix 4b: Major SAIFI events

SAIFI Major Event ME2 details (Reference: Table 23)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
11/04/2024 4:30	0	0.000001597	0.038474572	Yes	0.0371	0	No	0.000772917
11/04/2024 5:00	0	0.000001597	0.042864391	Yes	0.0371	0	No	0.000772917
11/04/2024 5:30	0	0.000001597	0.042864391	Yes	0.0371	0	No	0.000772917
11/04/2024 6:00	0	0.000001597	0.043011356	Yes	0.0371	0	No	0.000772917
11/04/2024 6:30	0	0.000001597	0.043011356	Yes	0.0371	0	No	0.000772917
11/04/2024 7:00	0.000499996	0.000501593	0.043054487	Yes	0.0371	0.000499996	No	0.000772917
11/04/2024 7:30	0	0.000501593	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 8:00	0	0.000501593	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 8:30	0.001025525	0.001527118	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 9:00	0	0.001527118	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 9:30	0	0.001527118	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 10:00	0.004365857	0.005892975	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 10:30	0.002402578	0.008295553	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 11:00	0.000001597	0.00829715	0.043054487	Yes	0.0371	0.000001597	No	0.000772917
11/04/2024 11:30	0	0.00829715	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 12:00	0	0.00829715	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 12:30	0	0.00829715	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 13:00	0.000263573	0.008560723	0.043054487	Yes	0.0371	0.000263573	No	0.000772917
11/04/2024 13:30	0.003404183	0.011964906	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 14:00	0.004499967	0.016463276	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 14:30	0.003646937	0.020110213	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 15:00	0.000833873	0.020944086	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 15:30	0	0.020944086	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 16:00	0.003591086	0.024535172	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917

SAIFI Major Event ME2 details (Reference: Table 23)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
11/04/2024 16:30	0	0.024535172	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 17:00	0	0.024535172	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 17:30	0.000001597	0.024536769	0.043054487	Yes	0.0371	0.000001597	No	0.000772917
11/04/2024 18:00	0.000972853	0.025509622	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 18:30	0.000012777	0.025522399	0.043054487	Yes	0.0371	0.000012777	No	0.000772917
11/04/2024 19:00	0.00034505	0.025867449	0.043054487	Yes	0.0371	0.00034505	No	0.000772917
11/04/2024 19:30	0.006961722	0.032829171	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
11/04/2024 20:00	0	0.032829171	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 20:30	0	0.032829171	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 21:00	0.000001597	0.032830768	0.043054487	Yes	0.0371	0.000001597	No	0.000772917
11/04/2024 21:30	0	0.032830768	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 22:00	0	0.032830768	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 22:30	0	0.032830768	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 23:00	0	0.032830768	0.043054487	Yes	0.0371	0	No	0.000772917
11/04/2024 23:30	0	0.032830768	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 0:00	0.000613415	0.033444183	0.043054487	Yes	0.0371	0.000613415	No	0.000772917
12/04/2024 0:30	0	0.033444183	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 1:00	0	0.033444183	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 1:30	0	0.033444183	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 2:00	0	0.033444183	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 2:30	0.001124606	0.034568789	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
12/04/2024 3:00	0	0.034568789	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 3:30	0.002445708	0.037014497	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
12/04/2024 4:00	0.001460075	0.038474572	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
12/04/2024 4:30	0.004389819	0.042864391	0.043054487	Yes	0.0371	0.000772917	Yes	0.000772917
12/04/2024 5:00	0	0.042864391	0.043054487	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME2 details (Reference: Table 23)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
12/04/2024 5:30	0.000146965	0.043011356	0.043054487	Yes	0.0371	0.000146965	No	0.000772917
12/04/2024 6:00	0	0.043011356	0.043054487	Yes	0.0371	0	No	0.000772917
12/04/2024 6:30	0.000043131	0.043054487	0.043054487	Yes	0.0371	0.000043131	No	0.000772917
12/04/2024 7:00	0.000046326	0.042600817	0.042816474	Yes	0.0371	0.000046326	No	0.000772917
12/04/2024 7:30	0.000215657	0.042816474	0.042816474	Yes	0.0371	0.000215657	No	0.000772917
12/04/2024 8:00	0	0.042816474	0.042816474	Yes	0.0371	0	No	0.000772917
12/04/2024 8:30	0.000001597	0.041792546	0.041792546	Yes	0.0371	0.000001597	No	0.000772917
12/04/2024 9:00	0	0.041792546	0.041792546	Yes	0.0371	0	No	0.000772917
12/04/2024 9:30	0	0.041792546	0.041792546	Yes	0.0371	0	No	0.000772917
12/04/2024 10:00	0.000001597	0.037428286	0.037428286	Yes	0.0371	0.000001597	No	0.000772917
SAIFI value before and after normalisation	**0.043**					**0.013**		

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
28/05/2024 19:00	0	0.001461657	0.039825833	Yes	0.0371	0	No	0.000772917
28/05/2024 19:30	0	0.001461657	0.065886653	Yes	0.0371	0	No	0.000772917
28/05/2024 20:00	0	0.001461657	0.066193365	Yes	0.0371	0	No	0.000772917
28/05/2024 20:30	0.000017572	0.001479229	0.079159931	Yes	0.0371	0.000017572	No	0.000772917
28/05/2024 21:00	0	0.001479229	0.079303693	Yes	0.0371	0	No	0.000772917
28/05/2024 21:30	0	0.001479229	0.079747782	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
28/05/2024 22:00	0	0.001479229	0.081332458	Yes	0.0371	0	No	0.000772917
28/05/2024 22:30	0	0.001479229	0.081528939	Yes	0.0371	0	No	0.000772917
28/05/2024 23:00	0	0.001479229	0.082048111	Yes	0.0371	0	No	0.000772917
28/05/2024 23:30	0	0.001479229	0.08208645	Yes	0.0371	0	No	0.000772917
29/05/2024 0:00	0	0.001479229	0.08208645	Yes	0.0371	0	No	0.000772917
29/05/2024 0:30	0	0.001479229	0.08208645	Yes	0.0371	0	No	0.000772917
29/05/2024 1:00	0	0.001479229	0.08208645	Yes	0.0371	0	No	0.000772917
29/05/2024 1:30	0	0.001479229	0.08208645	Yes	0.0371	0	No	0.000772917
29/05/2024 2:00	0	0.001479229	0.082143955	Yes	0.0371	0	No	0.000772917
29/05/2024 2:30	0	0.001479229	0.082143955	Yes	0.0371	0	No	0.000772917
29/05/2024 3:00	0	0.001479229	0.082143955	Yes	0.0371	0	No	0.000772917
29/05/2024 3:30	0	0.001479229	0.082143955	Yes	0.0371	0	No	0.000772917
29/05/2024 4:00	0	0.001479229	0.082143955	Yes	0.0371	0	No	0.000772917
29/05/2024 4:30	0	0.001479229	0.082182293	Yes	0.0371	0	No	0.000772917
29/05/2024 5:00	0	0.001479229	0.082182293	Yes	0.0371	0	No	0.000772917
29/05/2024 5:30	0	0.001479229	0.082182293	Yes	0.0371	0	No	0.000772917
29/05/2024 6:00	0	0.001479229	0.082182293	Yes	0.0371	0	No	0.000772917
29/05/2024 6:30	0	0.001479229	0.082182293	Yes	0.0371	0	No	0.000772917
29/05/2024 7:00	0	0.001479229	0.08218389	Yes	0.0371	0	No	0.000772917
29/05/2024 7:30	0	0.001479229	0.08218389	Yes	0.0371	0	No	0.000772917
29/05/2024 8:00	0	0.001479229	0.082238204	Yes	0.0371	0	No	0.000772917
29/05/2024 8:30	0	0.001479229	0.08259283	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
29/05/2024 9:00	0	0.001431305	0.082594427	Yes	0.0371	0	No	0.000772917
29/05/2024 9:30	0	0.001431305	0.082594427	Yes	0.0371	0	No	0.000772917
29/05/2024 10:00	0.000110225	0.00154153	0.082594427	Yes	0.0371	0.000110225	No	0.000772917
29/05/2024 10:30	0.000059101	0.001575072	0.082594427	Yes	0.0371	0.000059101	No	0.000772917
29/05/2024 11:00	0	0.001575072	0.082594427	Yes	0.0371	0	No	0.000772917
29/05/2024 11:30	0.000027157	0.001602229	0.082594427	Yes	0.0371	0.000027157	No	0.000772917
29/05/2024 12:00	0.002669315	0.004271544	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 12:30	0.00239459	0.006666134	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 13:00	0.001009561	0.006864186	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 13:30	0.000461639	0.007325825	0.082594427	Yes	0.0371	0.000461639	No	0.000772917
29/05/2024 14:00	0.000710831	0.008036656	0.082594427	Yes	0.0371	0.000710831	No	0.000772917
29/05/2024 14:30	0.00023162	0.008268276	0.082594427	Yes	0.0371	0.00023162	No	0.000772917
29/05/2024 15:00	0.007300283	0.015568559	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 15:30	0.000653347	0.016022231	0.082594427	Yes	0.0371	0.000653347	No	0.000772917
29/05/2024 16:00	0.00423165	0.020253881	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 16:30	0.002525539	0.02240243	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 17:00	0.009177353	0.031579783	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 17:30	0.000996809	0.032576592	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 18:00	0.002418545	0.034995137	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 18:30	0.004830696	0.039825833	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 19:00	0.02606082	0.065886653	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 19:30	0.000306712	0.066193365	0.082594427	Yes	0.0371	0.000306712	No	0.000772917

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
29/05/2024 20:00	0.012966566	0.079159931	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 20:30	0.000161334	0.079303693	0.082594427	Yes	0.0371	0.000161334	No	0.000772917
29/05/2024 21:00	0.000444089	0.079747782	0.082594427	Yes	0.0371	0.000444089	No	0.000772917
29/05/2024 21:30	0.001584676	0.081332458	0.082594427	Yes	0.0371	0.000772917	Yes	0.000772917
29/05/2024 22:00	0.000196481	0.081528939	0.082594427	Yes	0.0371	0.000196481	No	0.000772917
29/05/2024 22:30	0.000519172	0.082048111	0.082594427	Yes	0.0371	0.000519172	No	0.000772917
29/05/2024 23:00	0.000038339	0.08208645	0.082594427	Yes	0.0371	0.000038339	No	0.000772917
29/05/2024 23:30	0	0.08208645	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 0:00	0	0.08208645	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 0:30	0	0.08208645	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 1:00	0	0.08208645	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 1:30	0.000057505	0.082143955	0.082594427	Yes	0.0371	0.000057505	No	0.000772917
30/05/2024 2:00	0	0.082143955	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 2:30	0	0.082143955	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 3:00	0	0.082143955	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 3:30	0	0.082143955	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 4:00	0.000038338	0.082182293	0.082594427	Yes	0.0371	0.000038338	No	0.000772917
30/05/2024 4:30	0	0.082182293	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 5:00	0	0.082182293	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 5:30	0	0.082182293	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 6:00	0	0.082182293	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 6:30	0.000001597	0.08218389	0.082594427	Yes	0.0371	0.000001597	No	0.000772917

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
30/05/2024 7:00	0	0.08218389	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 7:30	0.000054314	0.082238204	0.082594427	Yes	0.0371	0.000054314	No	0.000772917
30/05/2024 8:00	0.000354626	0.08259283	0.082594427	Yes	0.0371	0.000354626	No	0.000772917
30/05/2024 8:30	0.000001597	0.082594427	0.082594427	Yes	0.0371	0.000001597	No	0.000772917
30/05/2024 9:00	0	0.082594427	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 9:30	0	0.082594427	0.082594427	Yes	0.0371	0	No	0.000772917
30/05/2024 10:00	0	0.082484202	0.082520948	Yes	0.0371	0	No	0.000772917
30/05/2024 10:30	0	0.082425101	0.082520948	Yes	0.0371	0	No	0.000772917
30/05/2024 11:00	0	0.082425101	0.082520948	Yes	0.0371	0	No	0.000772917
30/05/2024 11:30	0.000123004	0.082520948	0.082520948	Yes	0.0371	0.000123004	No	0.000772917
30/05/2024 12:00	0	0.079851633	0.079851633	Yes	0.0371	0	No	0.000772917
30/05/2024 12:30	0.000763561	0.078220604	0.078220604	Yes	0.0371	0.000763561	No	0.000772917
30/05/2024 13:00	0.000001597	0.07721264	0.07721264	Yes	0.0371	0.000001597	No	0.000772917
30/05/2024 13:30	0.000033547	0.076784548	0.076784548	Yes	0.0371	0.000033547	No	0.000772917
30/05/2024 14:00	0.00000639	0.076080107	0.076080107	Yes	0.0371	0.00000639	No	0.000772917
30/05/2024 14:30	0.000057503	0.07590599	0.07590599	Yes	0.0371	0.000057503	No	0.000772917
30/05/2024 15:00	0.000196488	0.068802195	0.068802195	Yes	0.0371	0.000196488	No	0.000772917
30/05/2024 15:30	0.000001597	0.068150445	0.068150445	Yes	0.0371	0.000001597	No	0.000772917
30/05/2024 16:00	0	0.063918795	0.063918795	Yes	0.0371	0	No	0.000772917
30/05/2024 16:30	0	0.061393256	0.061393256	Yes	0.0371	0	No	0.000772917
30/05/2024 17:00	0.000070288	0.052286191	0.052286191	Yes	0.0371	0.000070288	No	0.000772917
30/05/2024 17:30	0	0.051289382	0.051289382	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME3 details (Reference: Table 24)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
30/05/2024 18:00	0.000127794	0.048998631	0.048998631	Yes	0.0371	0.000127794	No	0.000772917
30/05/2024 18:30	0	0.044167935	0.044167935	Yes	0.0371	0	No	0.000772917
SAIFI value before and after normalisation	**0.084**					**0.016**		

SAIFI Major Event ME4 details (Reference: Table 25)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
16/06/2024 7:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 8:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 8:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 9:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 9:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 10:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 10:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 11:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 11:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 12:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 12:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 13:00	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 13:30	0	0.003904125	0.053610641	Yes	0.0371	0	No	0.000772917
16/06/2024 14:00	0	0.003904125	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 14:30	0	0.003904125	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 15:00	0.002621427	0.006525552	0.053706486	Yes	0.0371	0.000772917	Yes	0.000772917
16/06/2024 15:30	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 16:00	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 16:30	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 17:00	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 17:30	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 18:00	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 18:30	0	0.006525552	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 19:00	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 19:30	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 20:00	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 20:30	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 21:00	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME4 details (Reference: Table 25)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
16/06/2024 21:30	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 22:00	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 22:30	0	0.006028749	0.053706486	Yes	0.0371	0	No	0.000772917
16/06/2024 23:00	0.002003216	0.008031965	0.053706486	Yes	0.0371	0.000772917	Yes	0.000772917
16/06/2024 23:30	0	0.008031965	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 0:00	0	0.008031965	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 0:30	0	0.008031965	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 1:00	0	0.008031965	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 1:30	0	0.00528279	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 2:00	0	0.00528279	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 2:30	0	0.00528279	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 3:00	0	0.00528279	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 3:30	0.000030351	0.005313141	0.053706486	Yes	0.0371	0.000030351	No	0.000772917
17/06/2024 4:00	0.000038338	0.005351479	0.053706486	Yes	0.0371	0.000038338	No	0.000772917
17/06/2024 4:30	0	0.005351479	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 5:00	0	0.005351479	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 5:30	0	0.005351479	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 6:00	0	0.005351479	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 6:30	0	0.004693332	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 7:00	0.048917309	0.053610641	0.053706486	Yes	0.0371	0.000772917	Yes	0.000772917
17/06/2024 7:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 8:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 8:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 9:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 9:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 10:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 10:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 11:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 11:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME4 details (Reference: Table 25)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
17/06/2024 12:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 12:30	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 13:00	0	0.053610641	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 13:30	0.000095845	0.053706486	0.053706486	Yes	0.0371	0.000095845	No	0.000772917
17/06/2024 14:00	0	0.053706486	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 14:30	0	0.053706486	0.053706486	Yes	0.0371	0	No	0.000772917
17/06/2024 15:00	0	0.051085059	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 15:30	0	0.051085059	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 16:00	0.000014373	0.051099432	0.051099432	Yes	0.0371	0.000014373	No	0.000772917
17/06/2024 16:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 17:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 17:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 18:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 18:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 19:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 19:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 20:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 20:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 21:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 21:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 22:00	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 22:30	0	0.051099432	0.051099432	Yes	0.0371	0	No	0.000772917
17/06/2024 23:00	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
17/06/2024 23:30	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 0:00	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 0:30	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 1:00	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 1:30	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 2:00	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917

SAIFI Major Event ME4 details (Reference: Table 25)								
Date and time (half-hour commencing)	SAIFI (half-hour)	SAIFI (previous 24-hour)	SAIFI (max rolling 24-hour)	Major SAIFI Event	Boundary Value	Normalised SAIFI	Normalised or not	1/48 Boundary Value
18/06/2024 2:30	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 3:00	0	0.049096216	0.049096216	Yes	0.0371	0	No	0.000772917
18/06/2024 3:30	0	0.049065865	0.049065865	Yes	0.0371	0	No	0.000772917
18/06/2024 4:00	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
18/06/2024 4:30	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
18/06/2024 5:00	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
18/06/2024 5:30	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
18/06/2024 6:00	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
18/06/2024 6:30	0	0.049027527	0.049027527	Yes	0.0371	0	No	0.000772917
SAIFI value before and after normalisation	**0.054**					**0.0025**		

Appendix 5: Event caused by major external factors

29 May 2024 Storm Event

During the 24-hour period starting on 29 May 2024, Vector experienced significant outages exceeding 6 million customer minutes interruptions. The circumstances of this period align with the Major External Factors exceptions to extreme events, which include natural disasters such as earthquakes, landslips, floods, severe weather events including lightning, storms, wind, and rain.

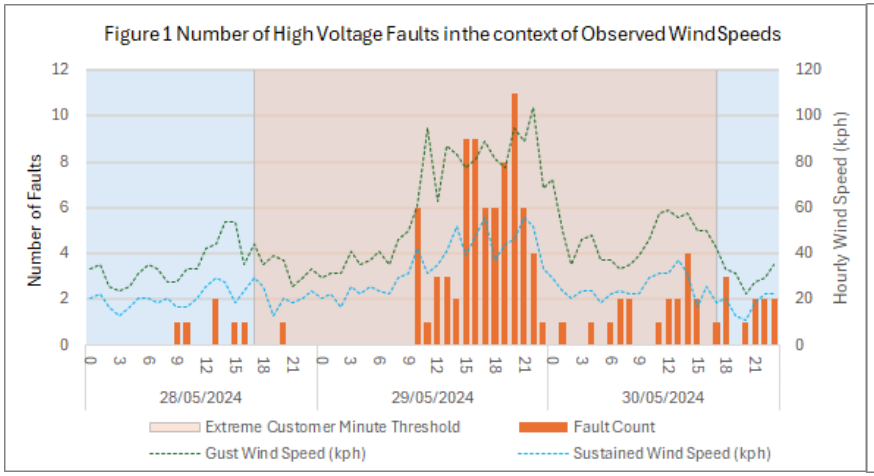
Throughout 29 May 2024, Vector was significantly impacted by severe winds. Wind speeds exceeding 60 km/h over the 24-hour period were the primary cause of numerous overhead asset and vegetation faults. Below is a summary of the weather conditions during this period and their impact on outages.

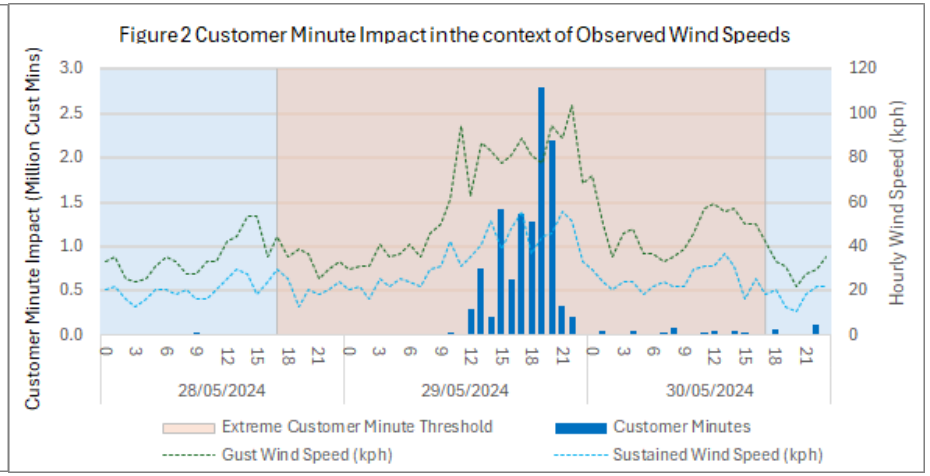
On 28 May 2024 at 10:02 am, Metservice issued Vector a strong wind watch, summarising the following:

- Strong winds from 4 pm Wednesday, 29 May to 2 am Thursday, 30 May.
- Gusts of 90-100 km/h were common in exposed areas, particularly along the western coasts of Auckland, including Manukau Harbour, the Hunua Ranges, and the Hauraki Gulf.
- Fast-moving showers could produce peak gusts 10-20 km/h stronger, with short-lived spikes between 100-120 km/h possible across the region.
- Wind gusts were expected to intensify from around 10-11 am on 30 May, with the strongest impacts occurring late afternoon (from around 4 pm) and early evening, before diminishing quickly from 10-11 pm.

From mid-morning on 29 May, wind speeds, including sustained winds and gusts, increased and remained elevated until midnight. Wind gusts fluctuated between Gale Force (62-88 km/h) and Storm Force (89-117 km/h) for 14 continuous hours. These winds caused severe damage to Vector's electricity network, with 59 High Voltage faults occurring simultaneously at the peak, leaving over 27,000 customers without power.

Figure 1 illustrates the severe wind event over time and its role in causing numerous high voltage outages across different regions. Figure 2 shows how these events resulted in significant customer minutes, aligning with peak wind intensities.





The impact of gale and storm force wind speeds on network performance is evident, with the network experiencing significant overhead asset damage.

The charts illustrate the correlation between customer outages and sustained wind speeds throughout the event. Wind gusts during the event were even higher than sustained wind speeds, with gusts recorded up to 104 kilometres per hour.

The majority of faults were attributed to vegetation-related causes (debris blown through lines and falling trees bringing lines down), followed closely by damage to overhead equipment. These factors accounted for 74% of faults during the storm period, compared to 42% in normal periods.

Strong winds led to the closure of Auckland's Harbour Bridge and the cancellation of 36 flights. Additionally, the winds toppled yachts at Pine Harbour Marina in Beachlands, causing damage to several vessels.

During the event period, 49,034 customers were affected by 98 high voltage faults: 32 due to vegetation, 29 due to overhead equipment, and 23 transient faults such as debris touching lines or lines clashing in the wind.