



TRANSPower

Quarterly system performance information

April to June 2026



Report Purpose

This report is Transpower's review of its performance as system operator in accordance with clauses 3.13 of the Electricity Industry Participation Code 2010 (the Code) and 12.3 of the System Operator Service Provider Agreement (SOSPA):

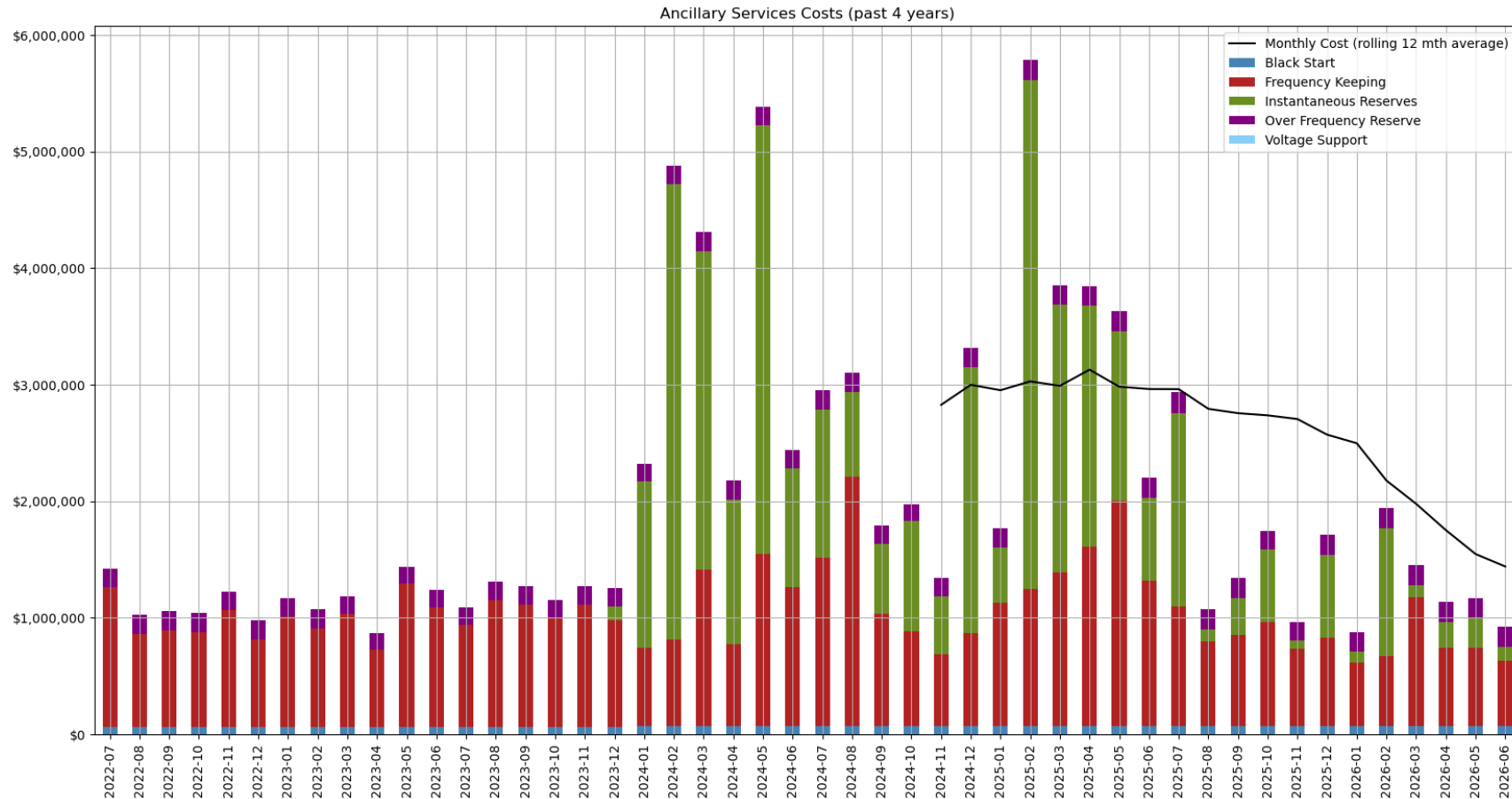
3.13 Self-review must be carried out by market operation service providers

- (1) Each **market operation service provider** must conduct, on a monthly basis, a self-review of its performance.
- (2) The review must concentrate on the **market operation service provider's** compliance with—
 - (a) its obligations under this Code and Part 2 and Subpart 1 of Part 4 of the **Act**; and
 - (b) the operation of this Code and Part 2 and Subpart 1 of Part 4 of the **Act**; and
 - (c) any performance standards agreed between the **market operation service provider** and the **Authority**; and
 - (d) the provisions of the **market operation service provider agreement**.

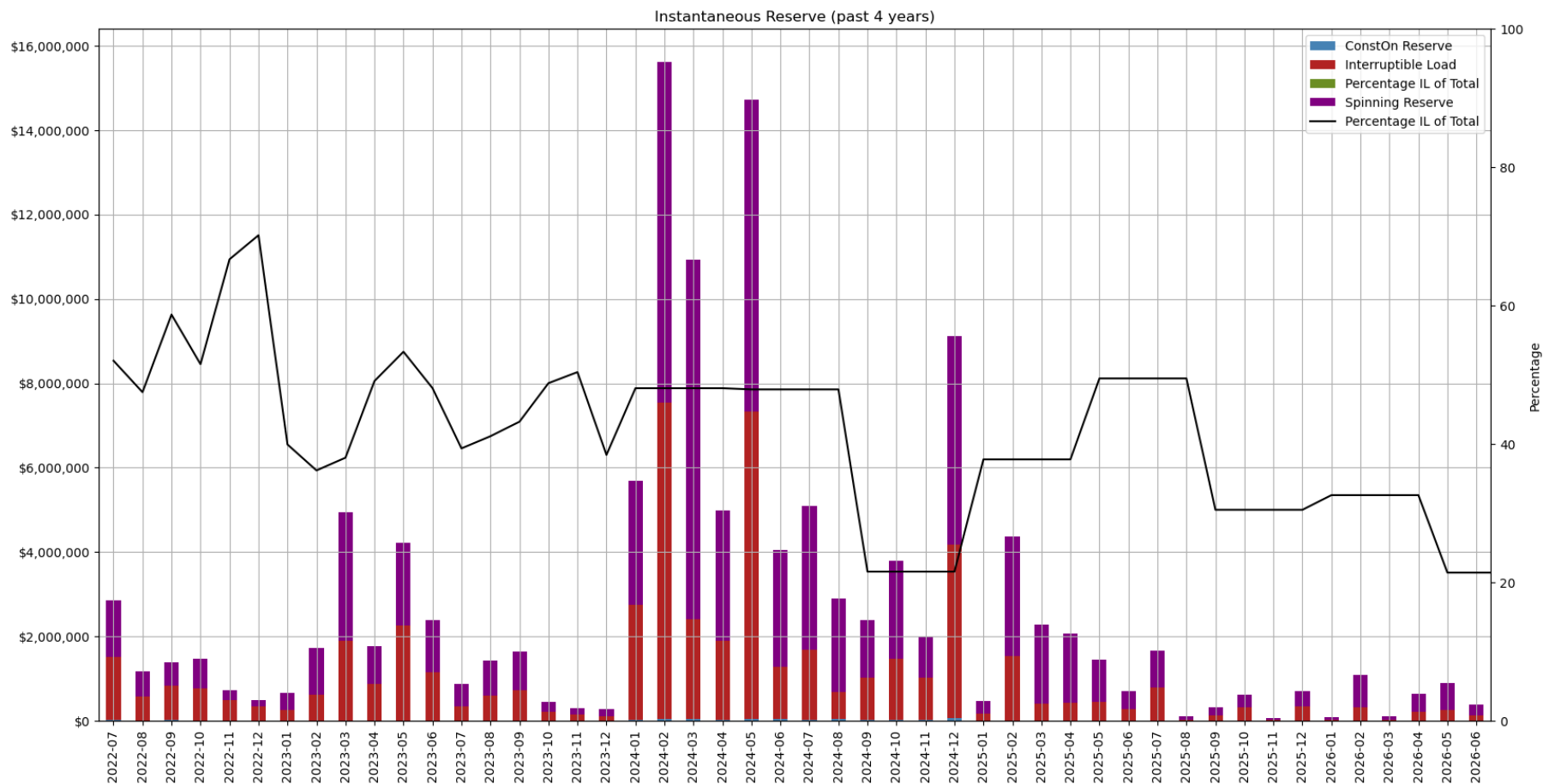
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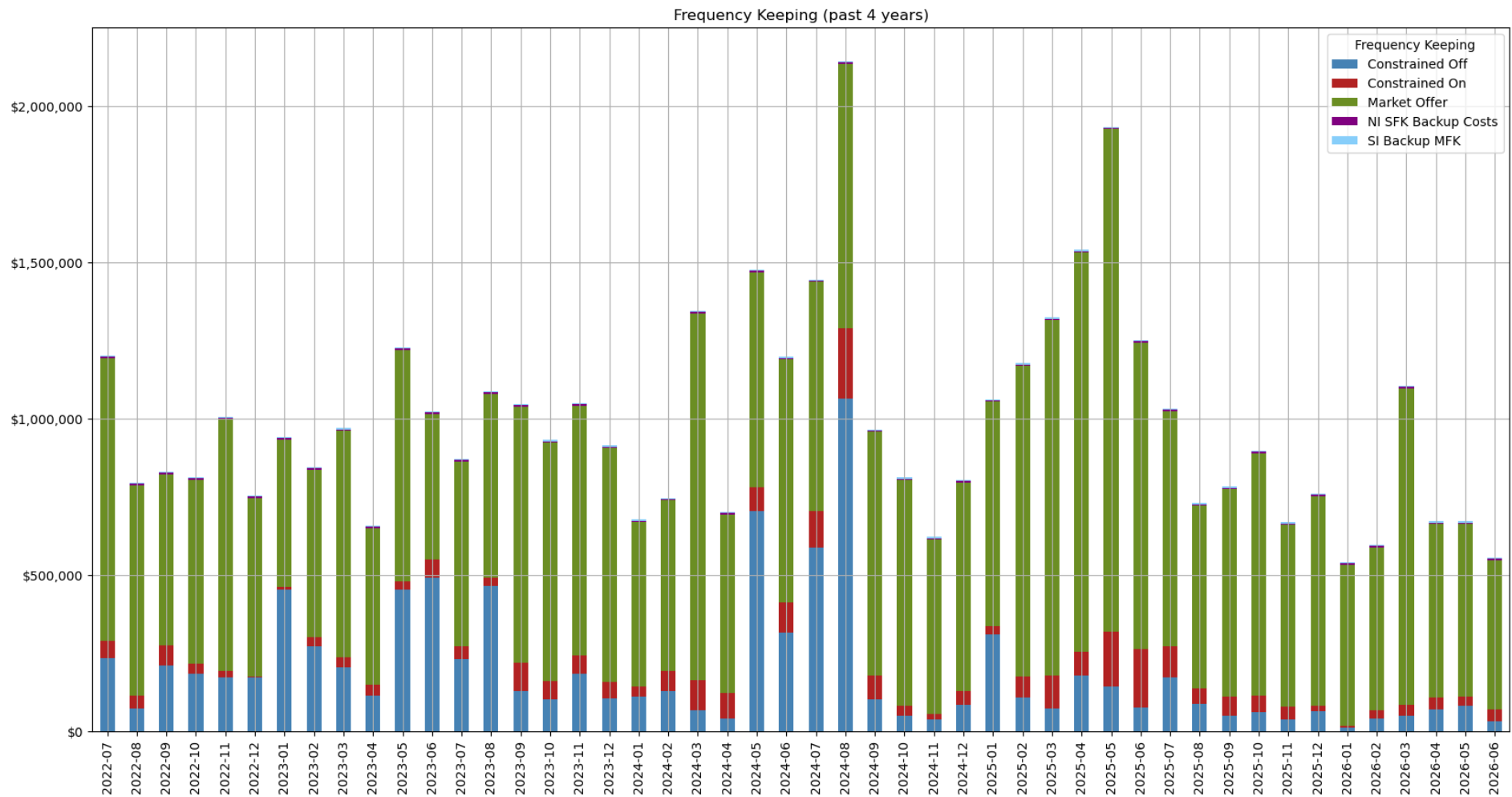
1 Ancillary services costs



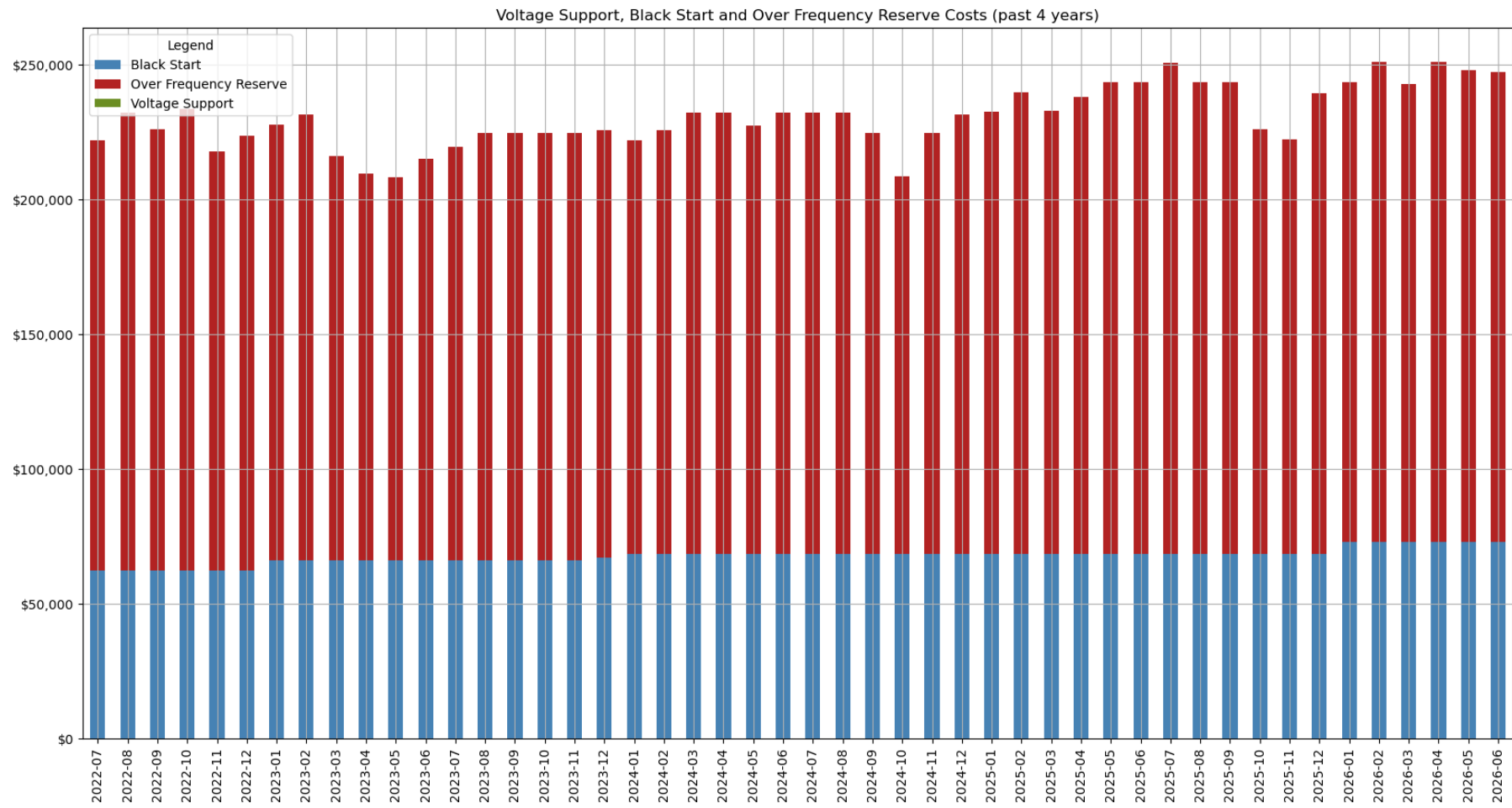
Ancillary service costs have increased this quarter compared with the previous quarter. The main factor contributing to this was increase in instantaneous reserve costs which are shown in more detail in the following plots.



Instantaneous reserve costs increased this quarter. This was due to a combination of cooler temperatures increasing demand and thermal generation running more often than in the previous quarter. There were several periods of higher reserve prices over the quarter due to several different factors.



There was a decrease in total frequency keeping costs this quarter. The decrease was driven by reductions to North Island frequency keeping costs.

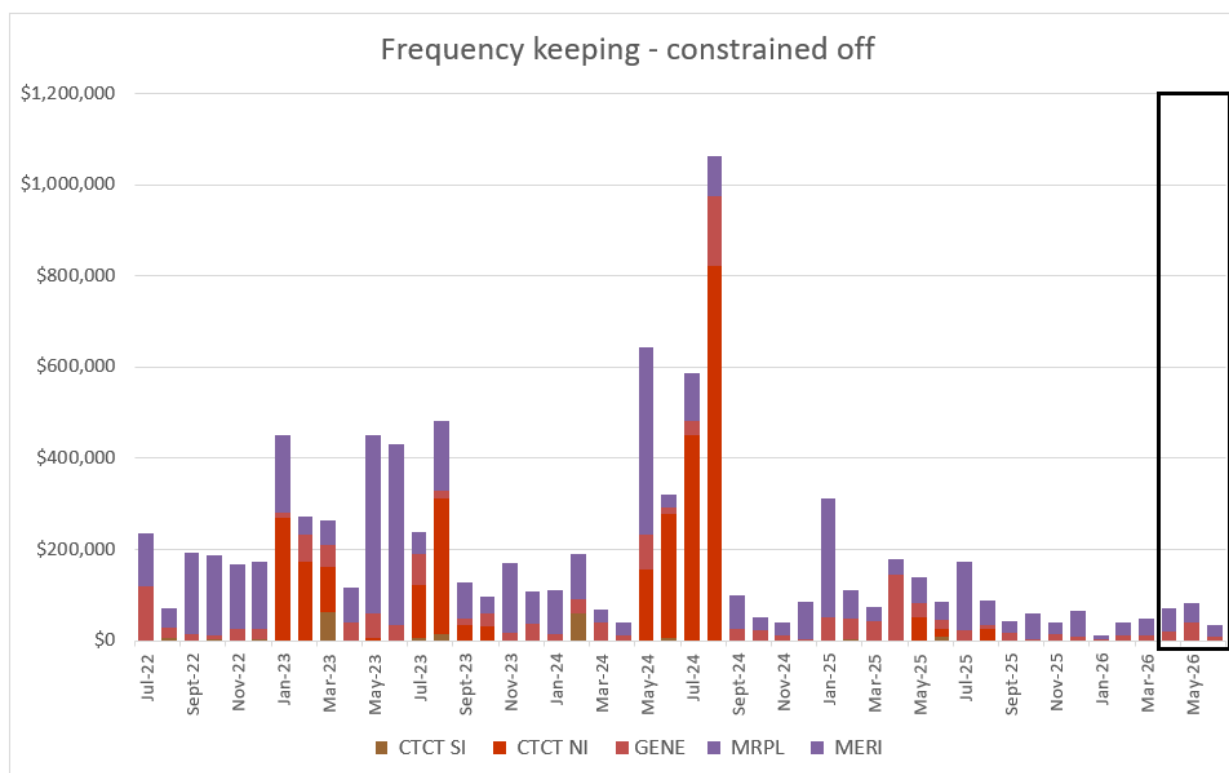


Over frequency reserve costs were higher this quarter which reflects increased availability of generator units which provide these services. Black start costs remained the same.

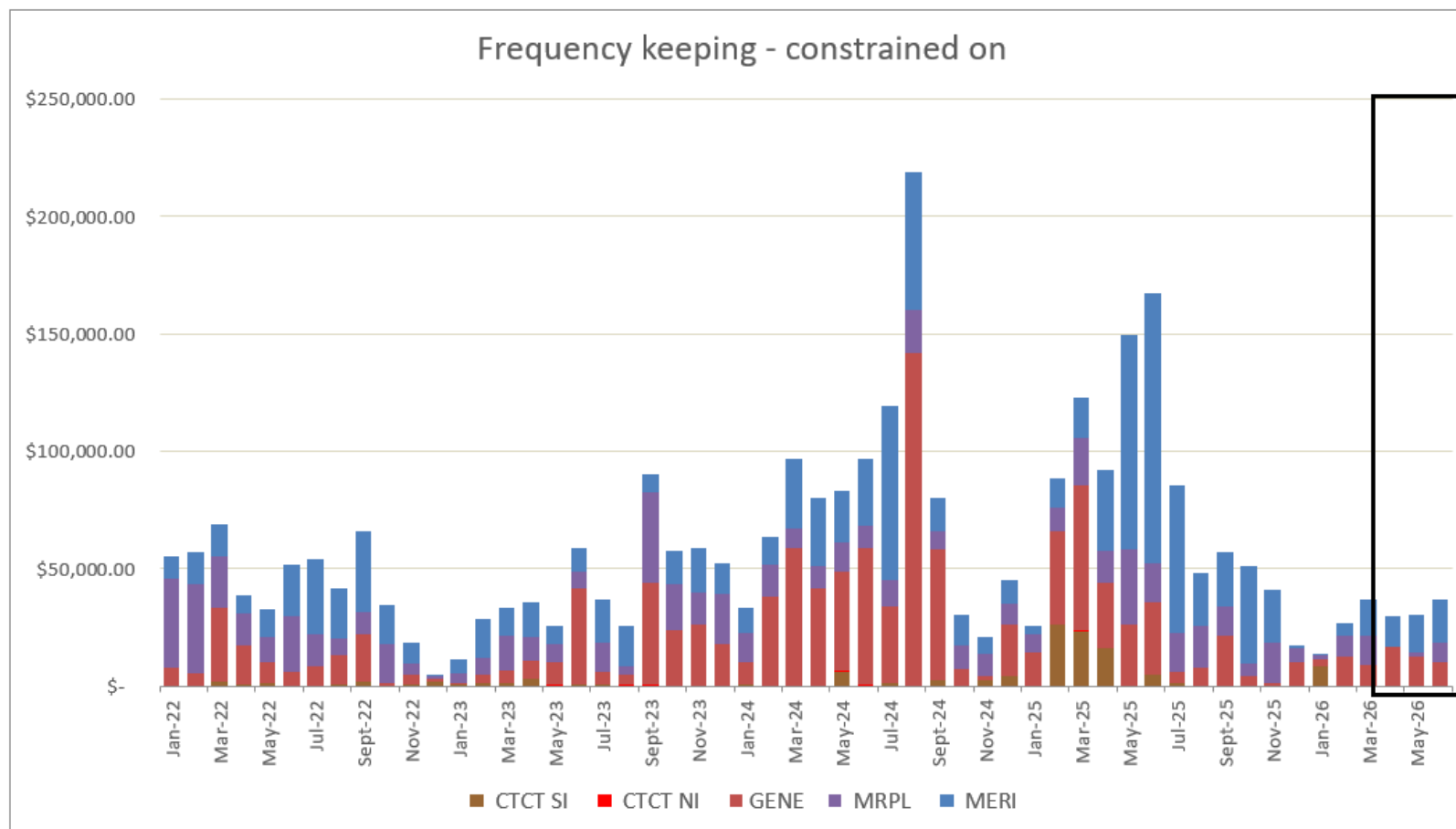
2 Constrained on/off costs

Note: Where there is a high payment, as opposed to in increasing/decreasing trend, it will often relate to payments over a small number of trading periods.

Frequency Keeping

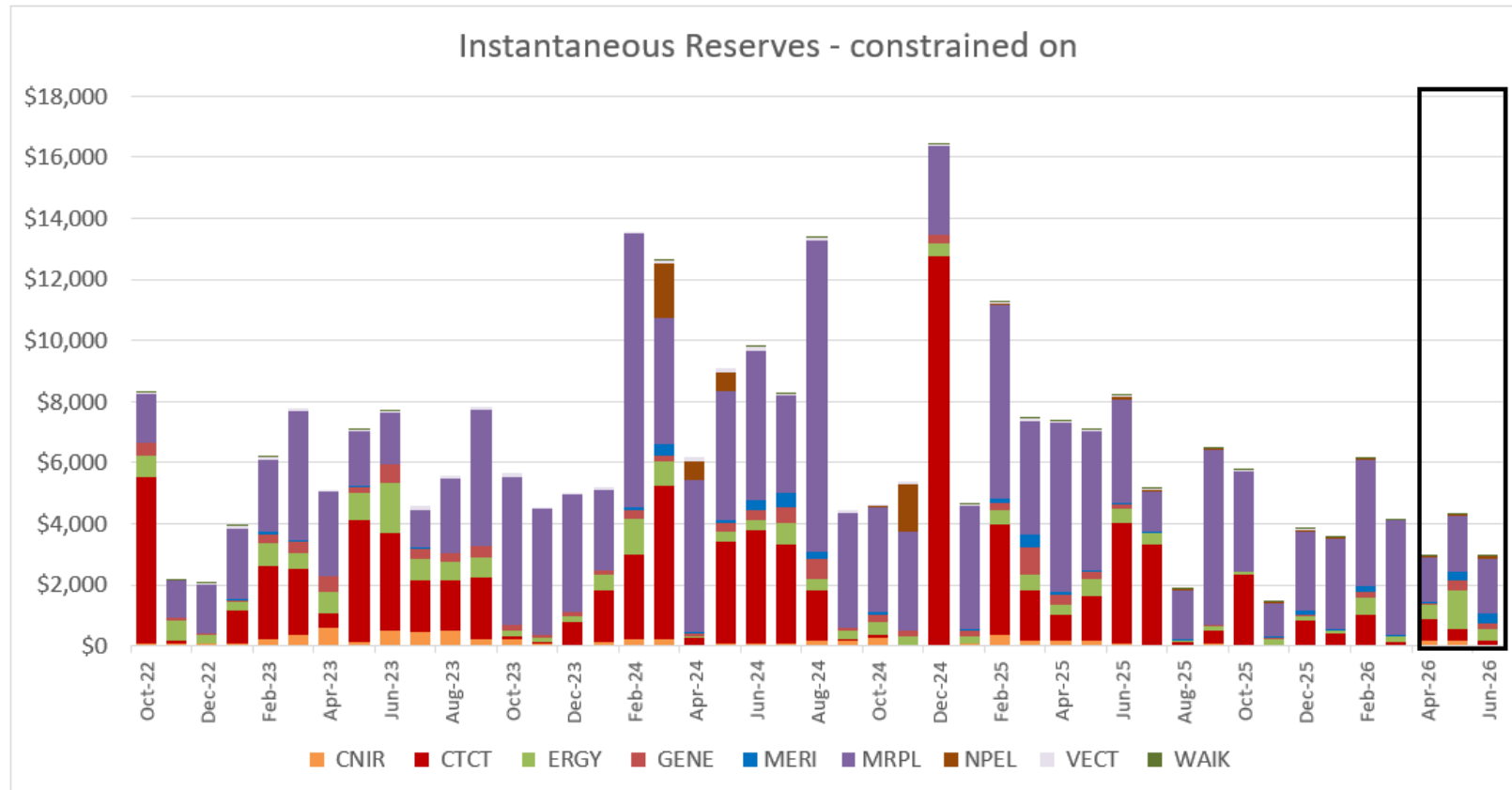


Constrained off costs have increased this quarter. The decrease in costs can mainly be attributed to the higher market prices for generation compared to the previous quarters.



Constrained on costs increased this quarter reflecting higher market prices for generation. However overall, these costs are still relatively low compared to other ancillary service costs.

Instantaneous Reserves



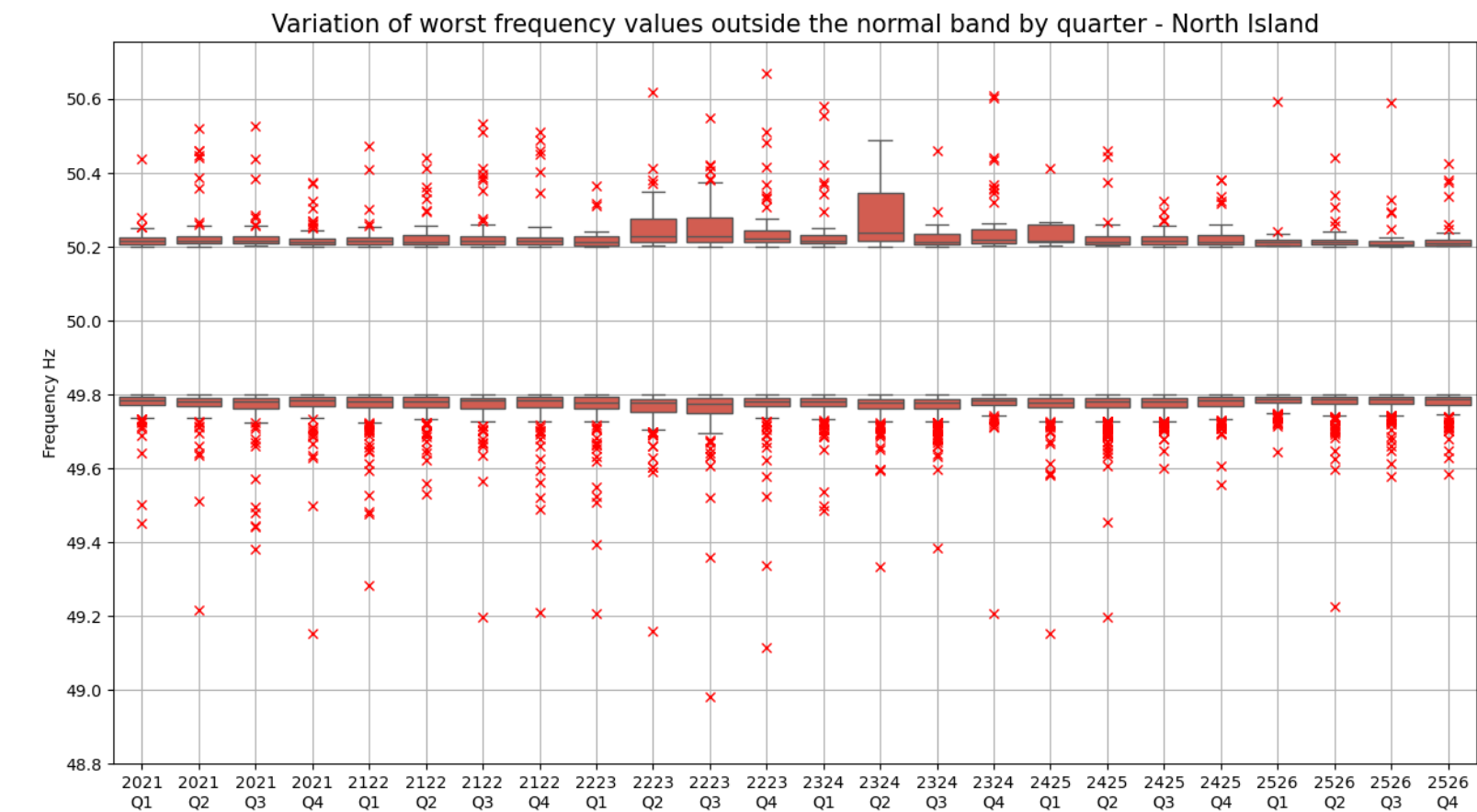
Costs decreased this quarter but there is no particular driver for this reduction and the variance is small.

3 Frequency fluctuations

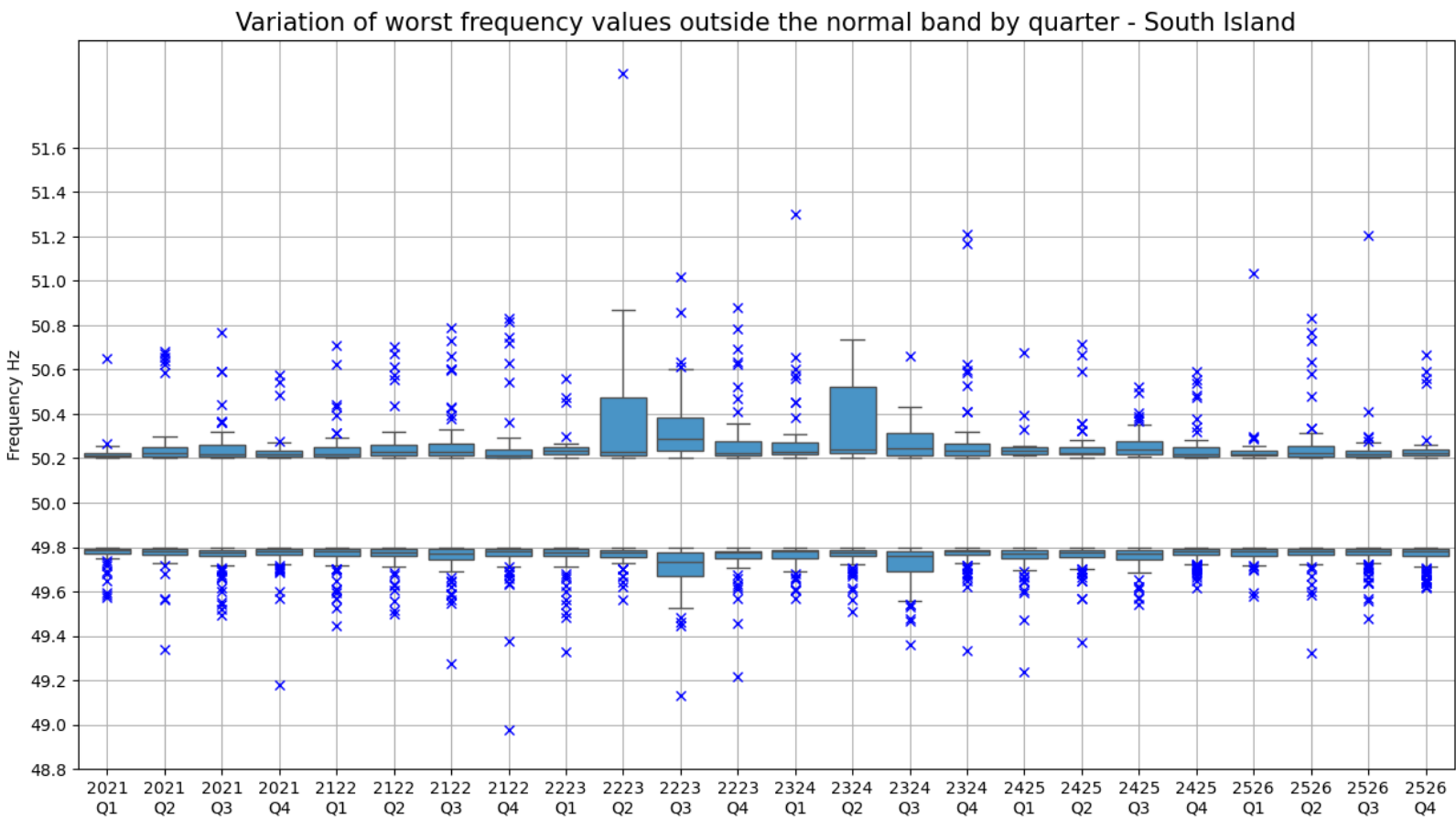
3.1 Maintain frequency in normal band (Frequency value)

The following charts show the distribution of the frequency excursions outside the normal band (49.8 to 50.2 Hz) by quarter, including the reporting period.

North Island



South Island



Note: These box and whisker charts show the distribution of data. The “box” represents the distribution of the middle 50% of the data, the “whiskers” indicate variability, and outliers are shown as single data points.

Excursions ± 0.5 Hz of the normal band this quarter:

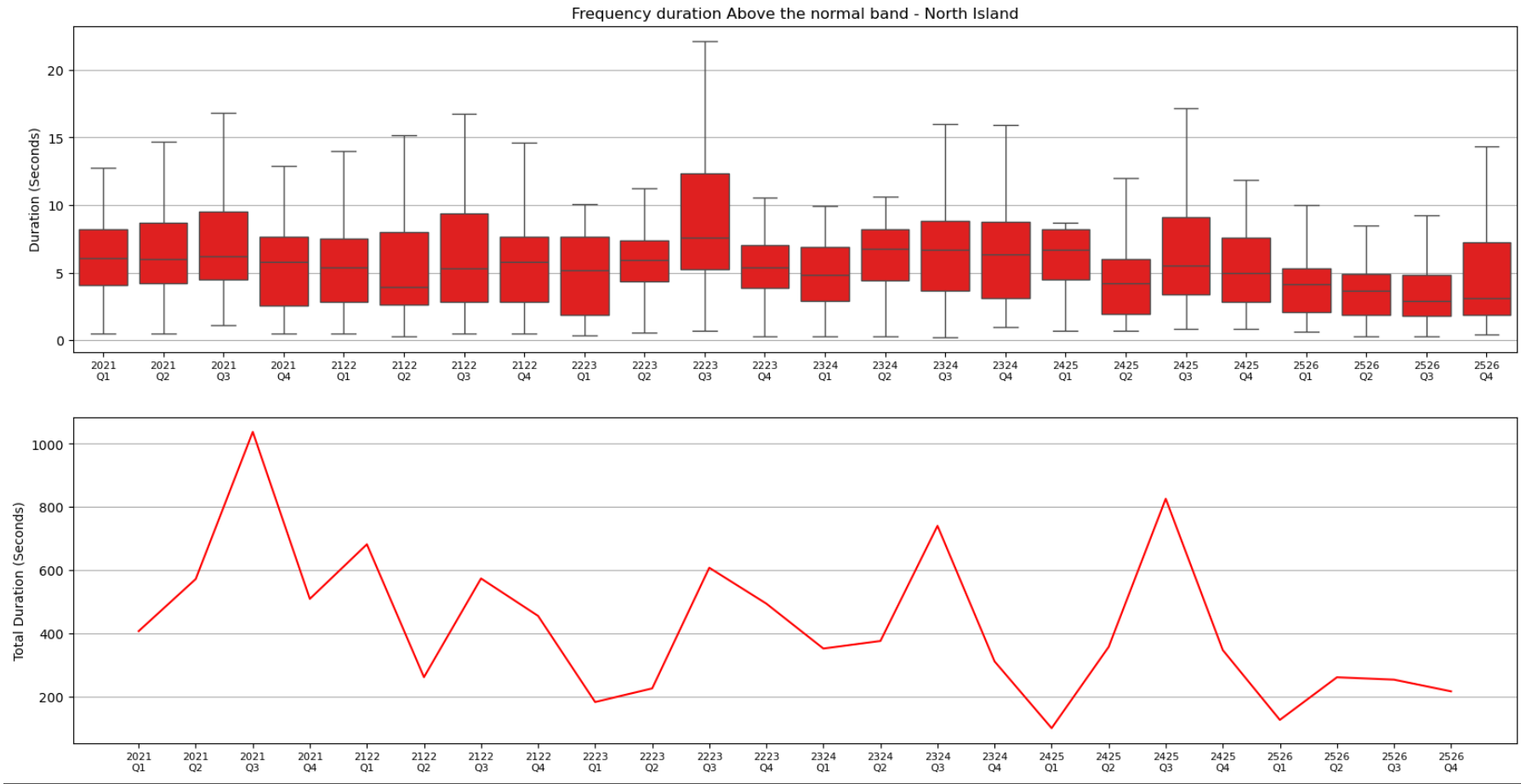
	Above	Below
April	Tiwai Potline trip 01/04, 2x instances on 09/04	
May	Tiwai Potline trip 06/05, 2x instances on 19/05	
June	Tiwai Potline trip 02/06, 11/06, 23/06 and 27/06	

3.2 Recover quickly from a fluctuation (Time)

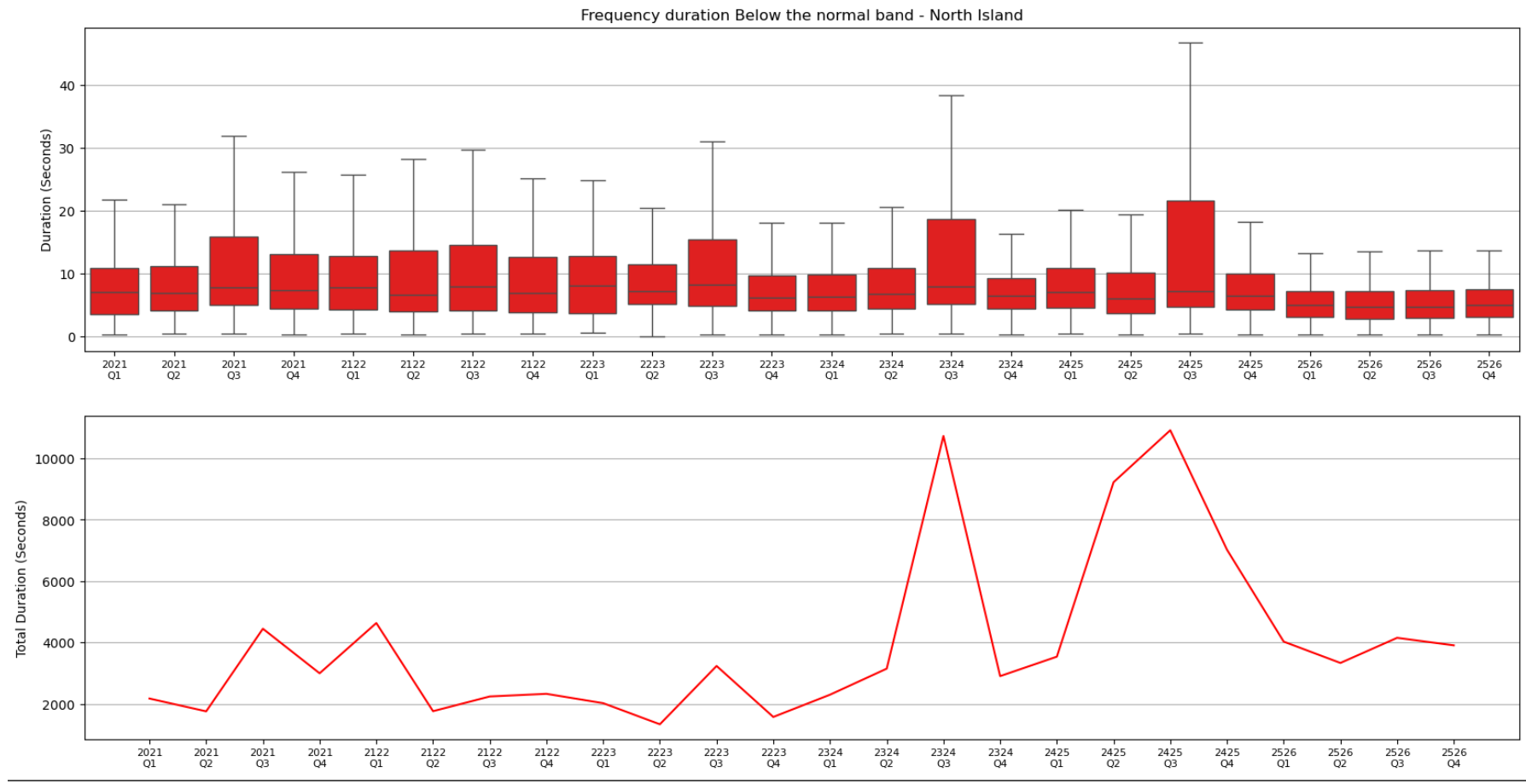
The following charts show the median and total duration of all the momentary fluctuations above and below the normal band for each island. The information is shown as a 4-quarter rolling average to illustrate trends in the data.

North Island

Above the normal band



Below the normal band

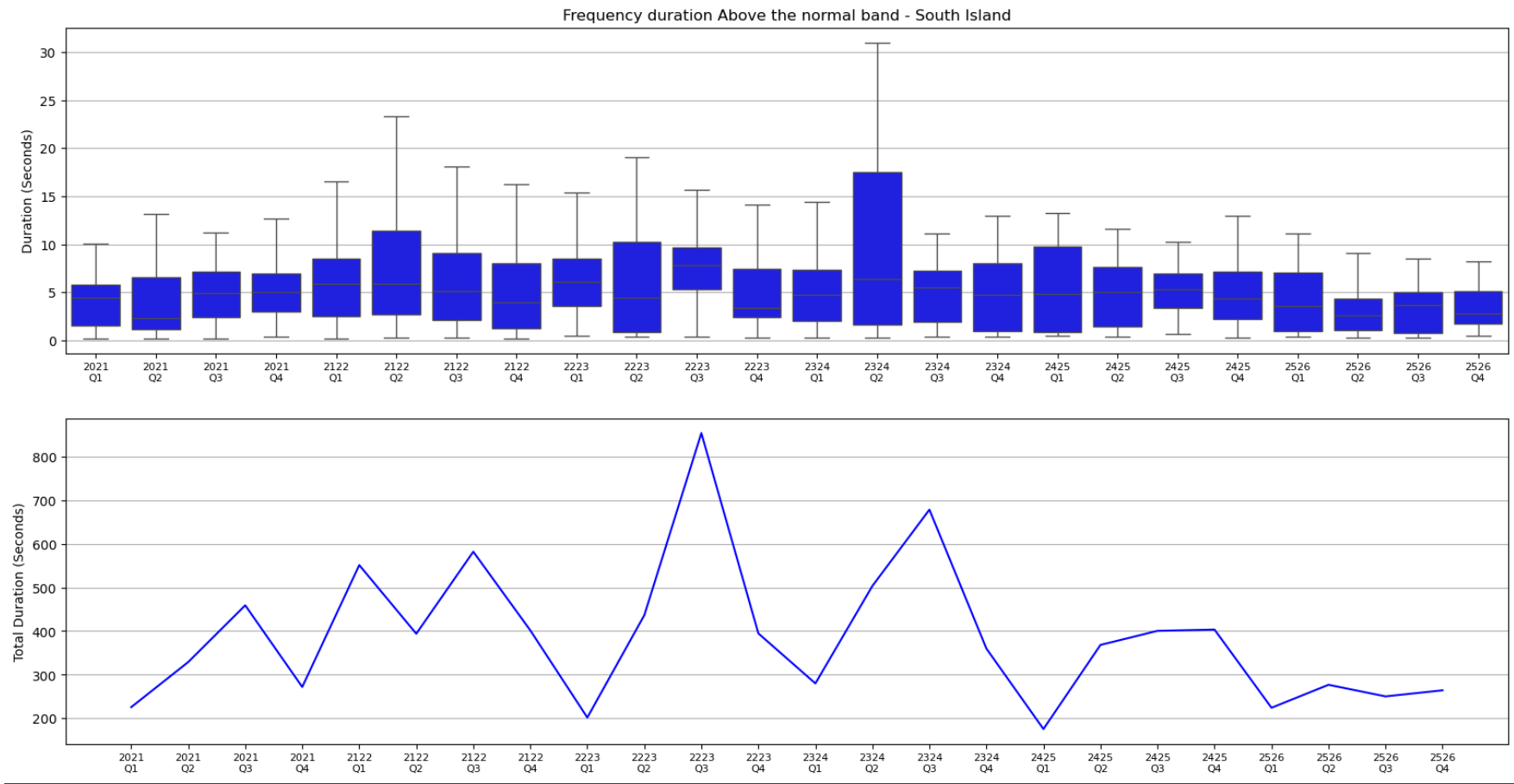


There were no excursions ± 0.5 Hz of the normal band this quarter.

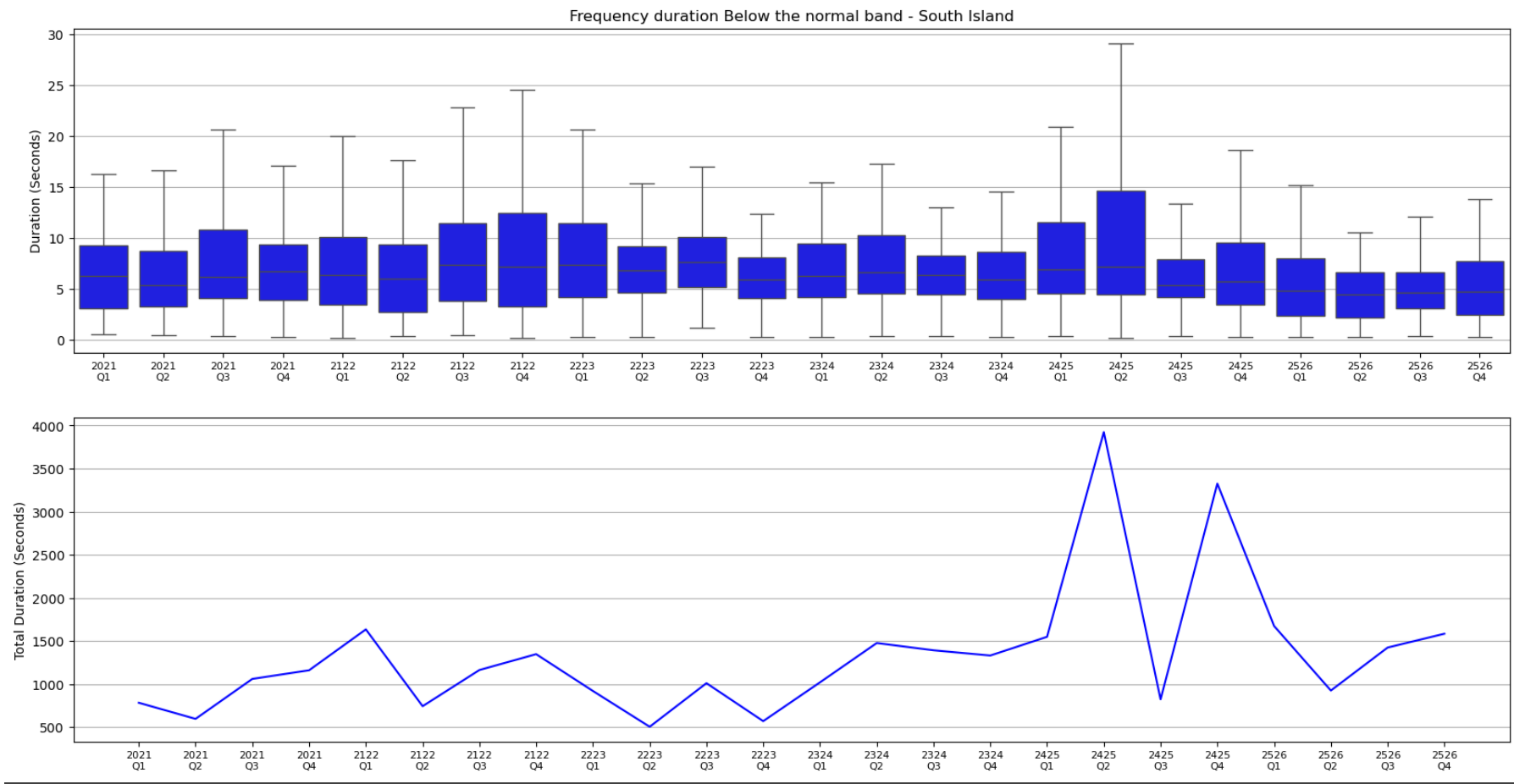
Above	Below
April	
May	
June	

South Island

Above the normal band



Below the normal band



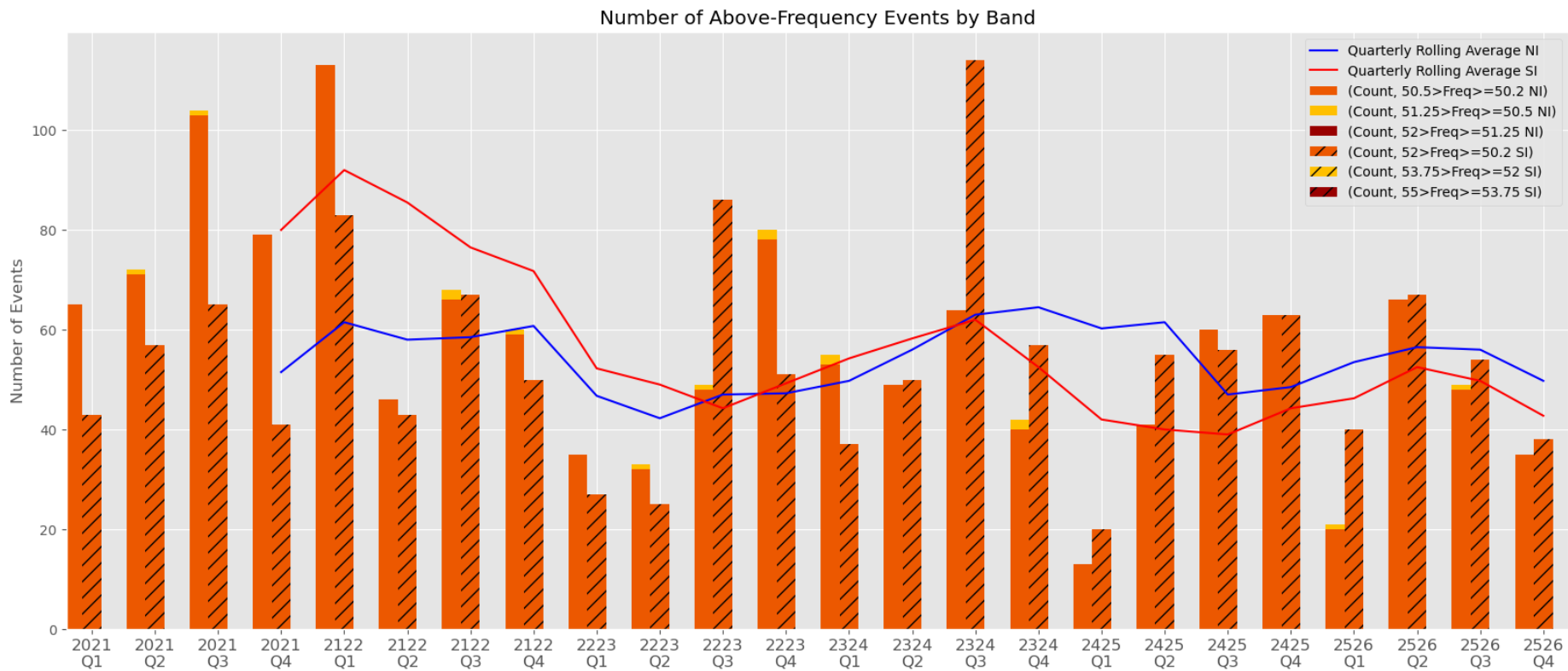
Excursions ± 0.5 Hz of the normal band this quarter:

	Above	Below
April	Tiwai Potline trip 01/04, 2x instances on 09/04	
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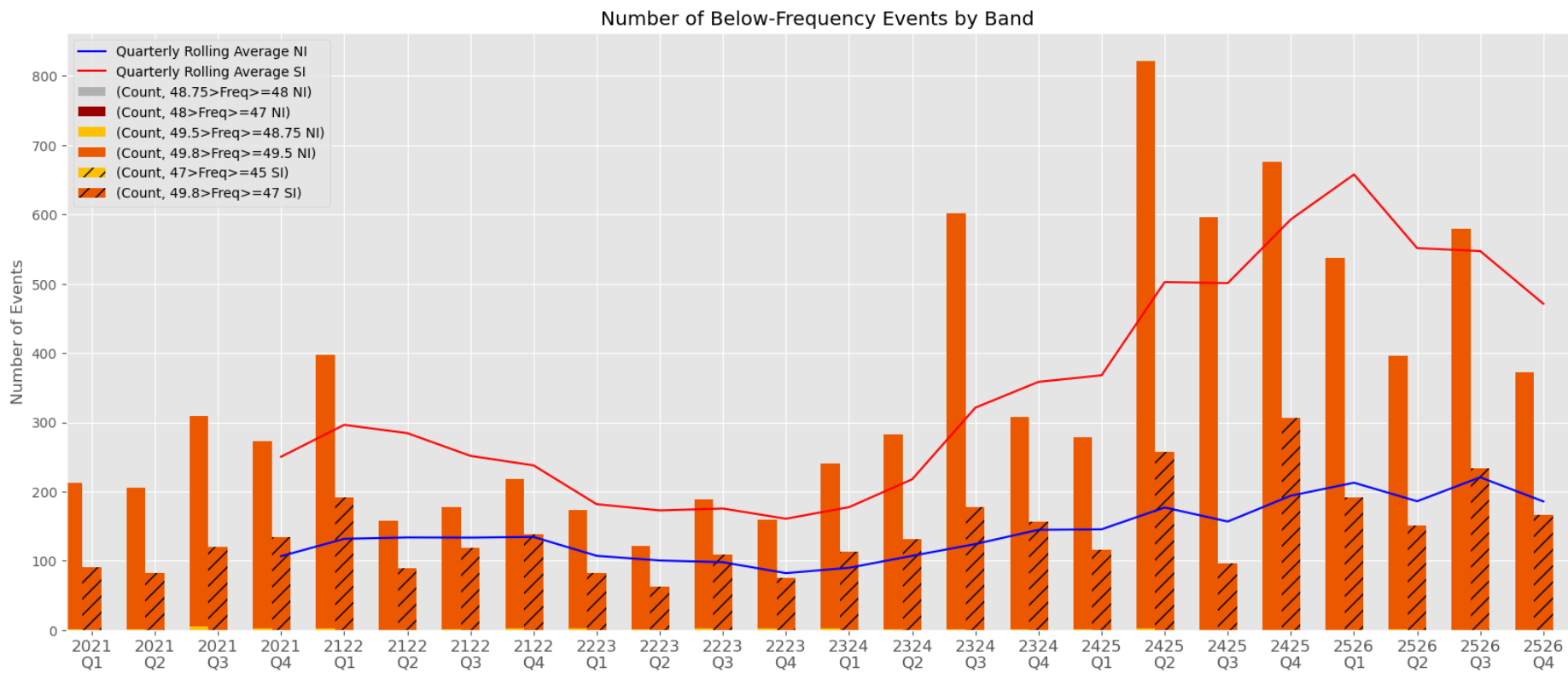
3.3 Manage frequency and limit rate of occurrences during momentary fluctuations (Number)

The following charts show the number of momentary fluctuations outside the frequency normal band, grouped by frequency band, for each quarter. Information is shown by island, including a 4-quarter rolling average to show the prevailing trend.

Over-frequency events



Under-frequency events



Excursions ± 0.5 Hz of the normal band this quarter:

	Above	Below
April	Tiwai Potline trip 01/04, 2x instances on 09/04	
May	Tiwai Potline trip 06/05, 2x instances on 19/05	
June	Tiwai Potline trip 02/06, 11/06, 23/0 and 27/06	

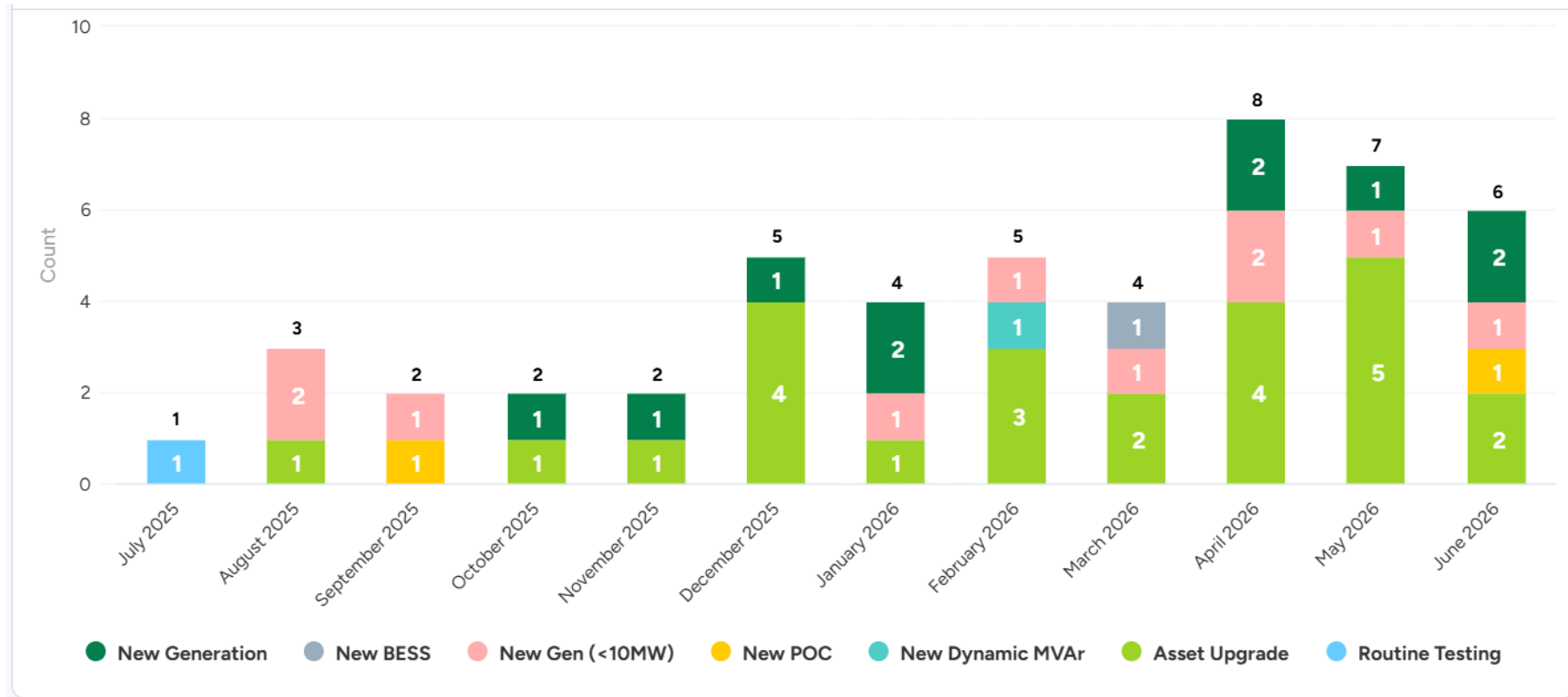
Reporting against Code clause 7.2E:

North Island	52 > x ≥ 51.25	51.25 > x ≥ 50.5	49.5 > x ≥ 48.75	48.75 > x ≥ 48	48 > x ≥ 47
2024					
Jul	0	0	1	0	0
Aug	0	0	0	0	0
Sep	0	0	1	0	0
Oct	0	0	0	0	0
Nov	0	0	0	0	0
Dec	0	0	2	0	0
2025					
Jan	0	0	2	0	0
Feb	0	0	0	0	0
Mar	0	0	1	0	0
Apr	0	0	1	0	0
May	0	0	0	0	0
Jun	0	0	0	0	0
Jul	0	0	1	0	0
Aug	0	0	0	0	0
Sep	0	1	0	0	0
Oct	0	0	2	0	0
Nov	0	0	0	0	0
Dec	0	0	1	0	0
2026					
Jan	0	0	0	0	0
Feb	0	1	1	0	0
Mar	0	1	0	0	0
Apr	0	1	0	0	0
May	0	1	0	0	0
Jun	0	0	0	0	0

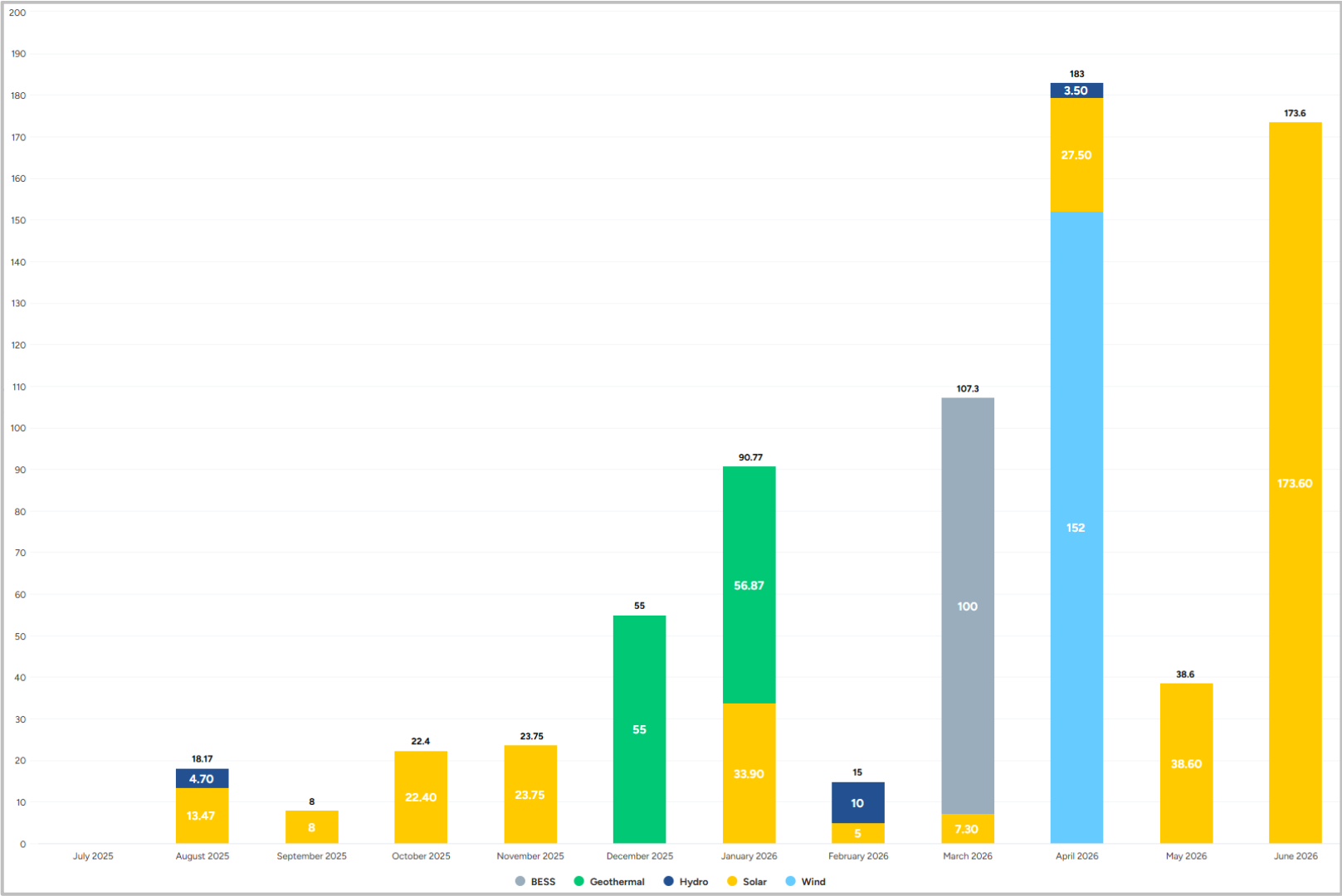
South Island	55 > x ≥ 53.75	53.75 > x ≥ 52	52 > x ≥ 51.25	51.25 > x ≥ 50.5	49.5 > x ≥ 48.75	48.75 > x ≥ 48	48 > x ≥ 47	47 > x ≥ 45
2024								
Jul	0	0	0	0	1	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	1	0	0	0
Oct	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	1	0	0	0	2	0	0	0
2025								
Jan	0	0	0	0	2	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	1	0	0	0
Apr	0	0	0	0	1	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	1	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	1	0	0	0	0
Oct	0	0	0	0	2	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	1	0	0	0
2026								
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	1	1	0	0	0
Mar	0	0	0	1	0	0	0	0
Apr	0	0	0	1	0	0	0	0
May	0	0	0	1	0	0	0	0
Jun	0	0	0	0	0	0	0	0

4 Commissioning

4.1 FY 25/26 Completed and Confirmed Commissioning



4.2 FY 25/26 New Capacity (MW) by Generation Type



5 Security notices

The following table shows the number of Warning Notices, Grid Emergency Notices and Customer Advice Notices issued over the last 12 months.

Notices issued	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26
Demand Allocation Notice	-	-	-	-	-	-	-	-	-	-	-	-
Grid Emergency Notice	-	-	-	5	5	3	-	-	-	1	-	1
Warning Notice	-	1	-	-	1	-	-	-	-	-	-	-
Customer Advice Notice	5	14	10	12	14	10	22	23	11	20	11	10

5.1 Low residual CANs

This quarter we have issued 1 low residual Customer Advice Notice:

- 5 May – exercise for submitting difference bids only. A CAN was issued to advise of a test for EDB's to submit difference bids on 5 May 17:30 to 19:00.

5.2 Grid emergencies

The following table shows grid emergencies declared by the System Operator in October to December 2025.

Date	Time	Summary Details	Island
20 April 2026	20:15	A Grid Emergency was declared at Edgecumbe due to asset exceeding advised limit. A grid reconfiguration saw Owhata circuit breaker 112 opened, due to lightning in the Bay of Plenty area.	NI
26 June 2026	11:47	A Grid Emergency was declared to reconfigure 110kV grid to avoid post contingent overloading.	NI