



TRANSPower

# System Operator Industry Forum

24 February 2026



# Today's agenda

- Key messages
- Market update
- NZGB update
- Outage update – next four weeks
- Operational update
- Commissioning update
- Consultations, publications and events
- Questions / Patai





## Key Messages

- National hydro storage is high but reducing.
- Thermal fuel storage (coal and gas) are also high.
- We are still seeing low levels of thermal generation and high levels of renewables (>96% renewables for 20 weeks).
- Annual HVDC pole outages are underway and run to 2 March.
- Note potential ICCP outages for next week.



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# Market update

# Energy: National hydro storage

National storage remains high, but is below the 90th percentile for this time of year.

	Hydro storage level (% of mean ▲ / ▼)		
	New Zealand	South Island	North Island
Last forum	115%	110%	166%
Now	113% ▼	107% ▼	178% ▲

Note: these numbers include contingent storage, so they differ from those reported by NZX

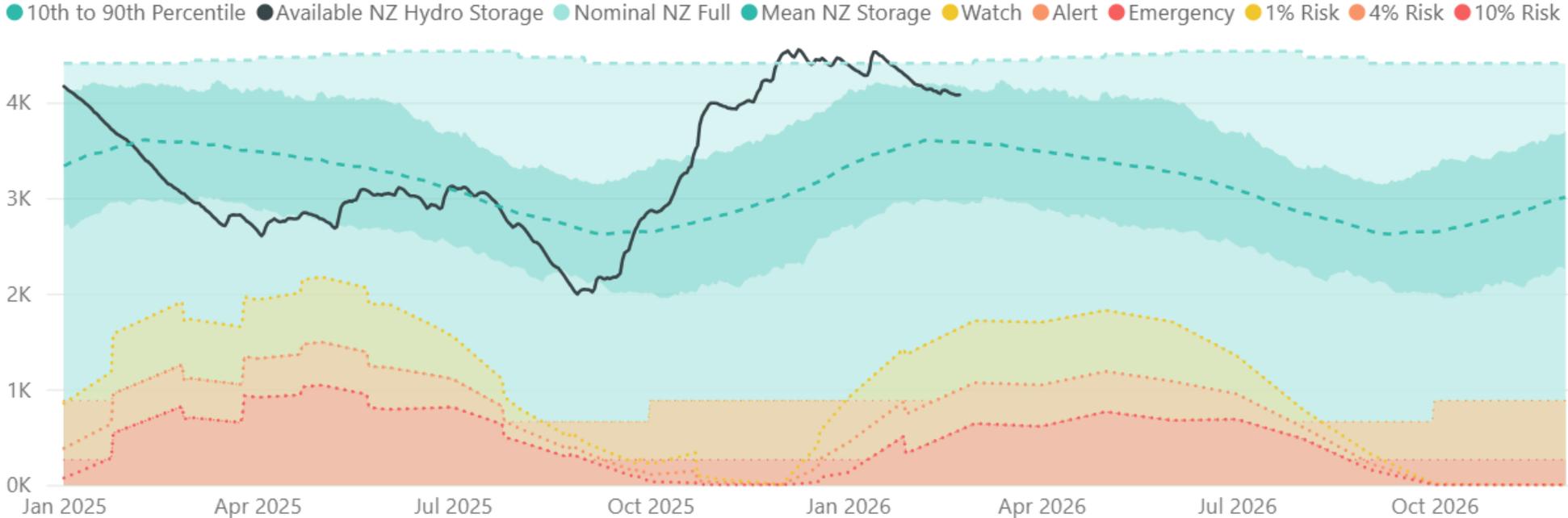
## New Zealand Energy Risk



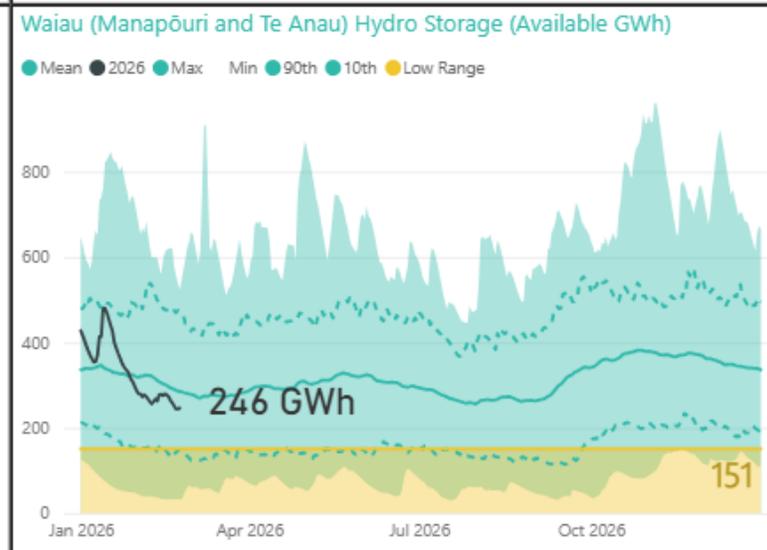
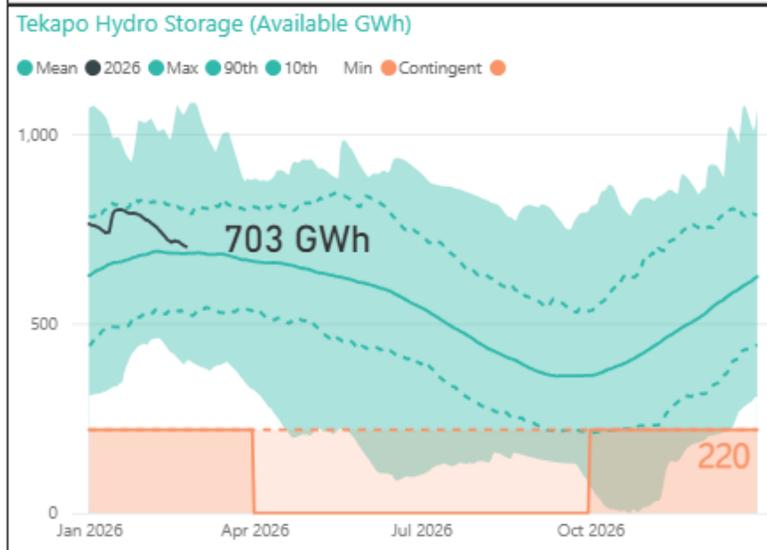
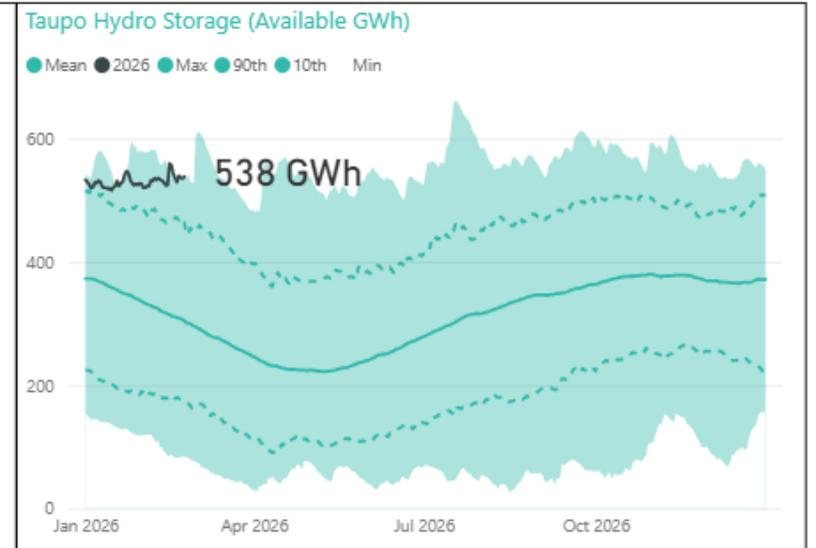
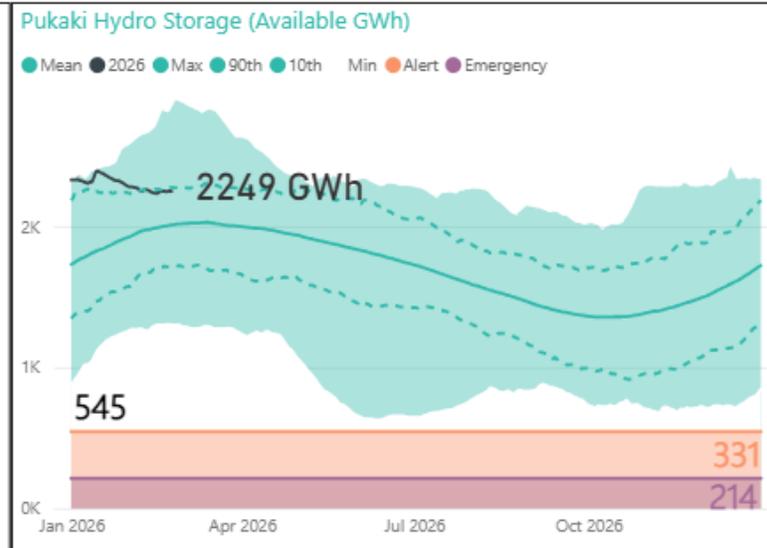
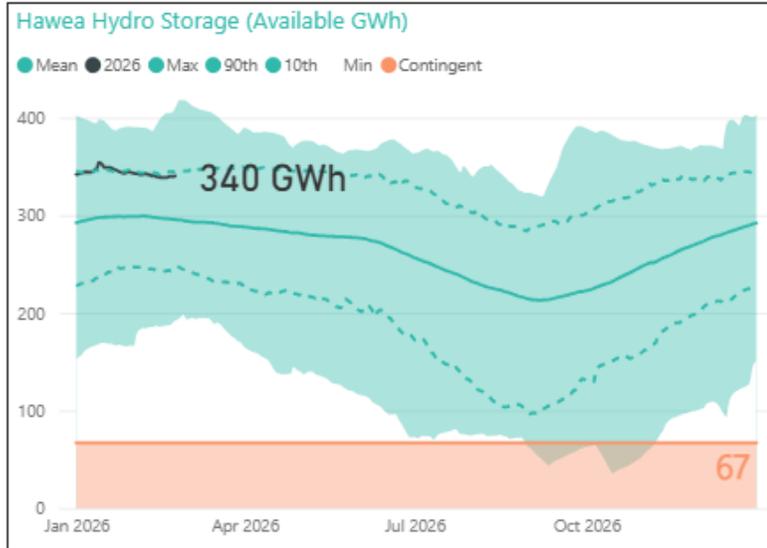
## South Island Energy Risk



## New Zealand Electricity Risk Status Curves (Available GWh)



# Hydro storage by catchment



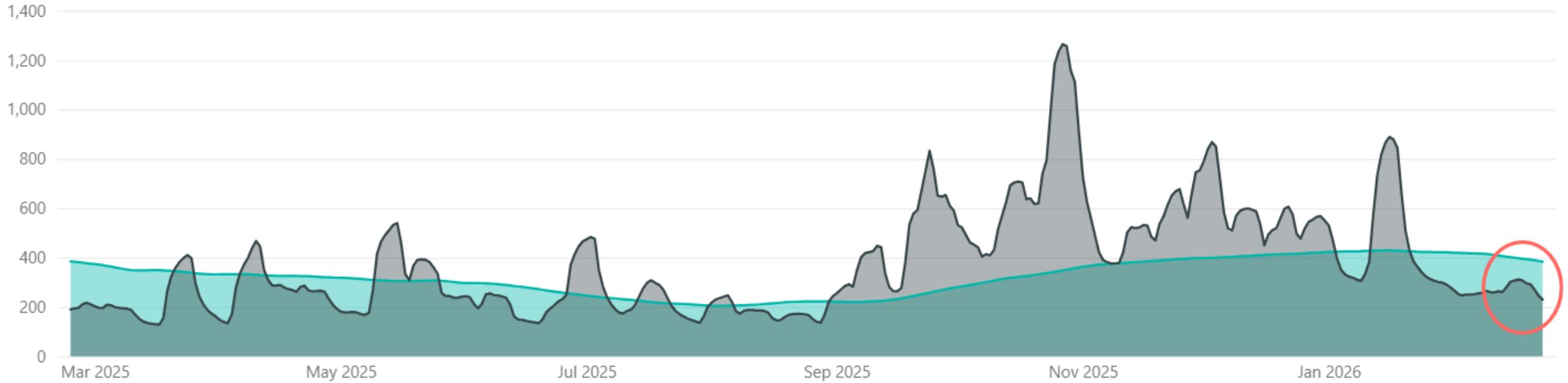
Lake	Current (%) avg
nz_controlled	114
si_controlled	108
hawea	115
pukaki	112
manapouri	90
te_anau	85
tekapo	103
taupo	177



# Hydro inflows

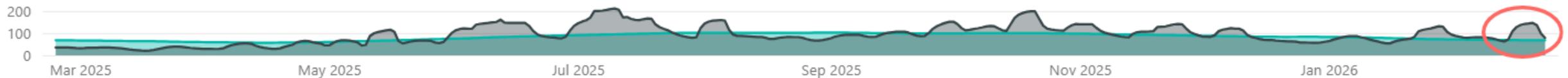
## South Island Mean 7 Day Inflows (Available GWh)

● SI Inflows - Average ● SI Inflows



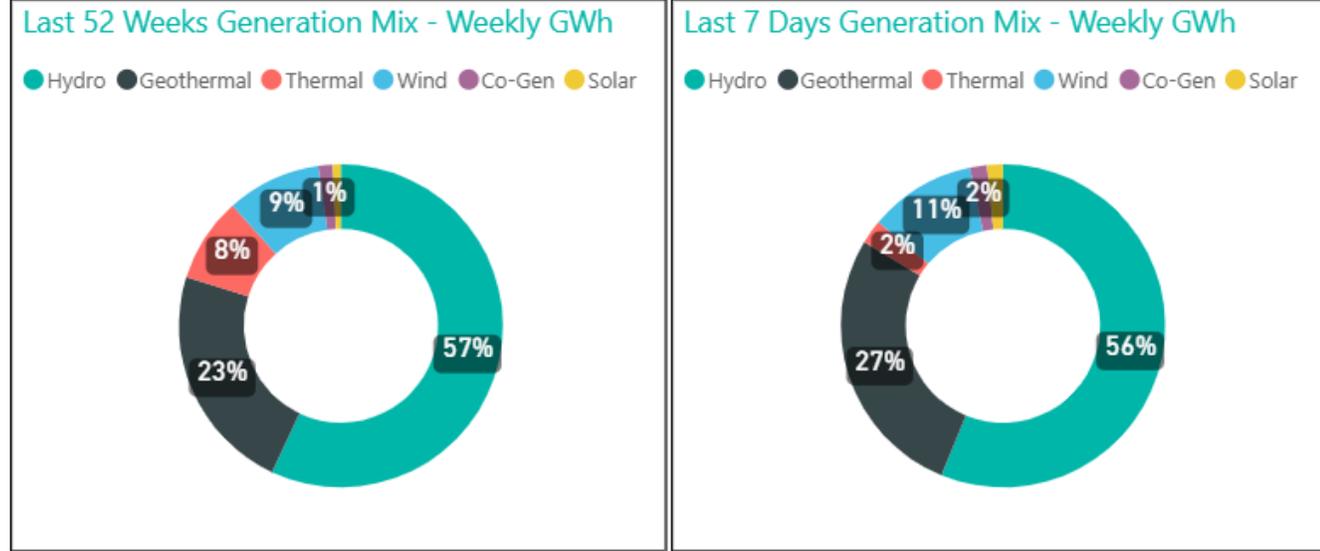
## North Island Mean 7 Day Inflows (Available GWh)

● NI Inflows- Average ● NI Inflows

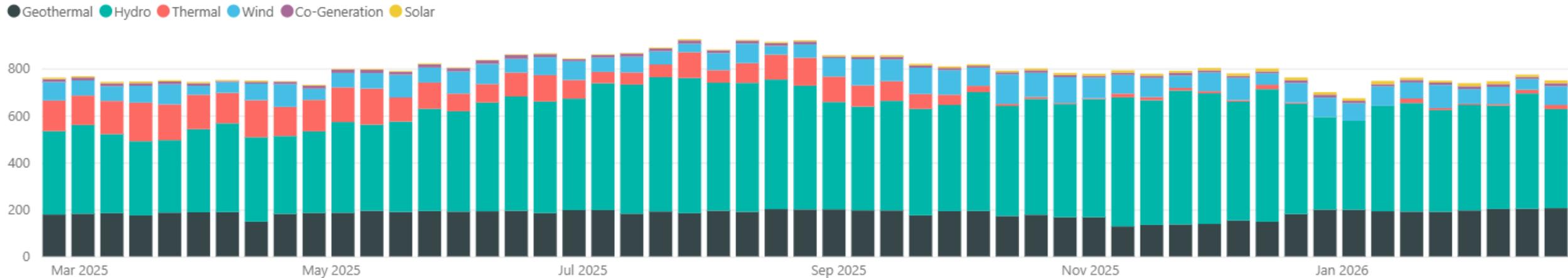


# Generation mix

- Hydro generation share below average at 56% last week
- Despite this, renewable share remained >96% for the 20<sup>th</sup> consecutive week
  - Low demand
  - Above average wind, solar (11%, 2%)
  - New geothermal (TOPP2, Ngā Tamariki OEC 5)
- Low thermal generation (2%)



## Weekly Generation Mix - GWh

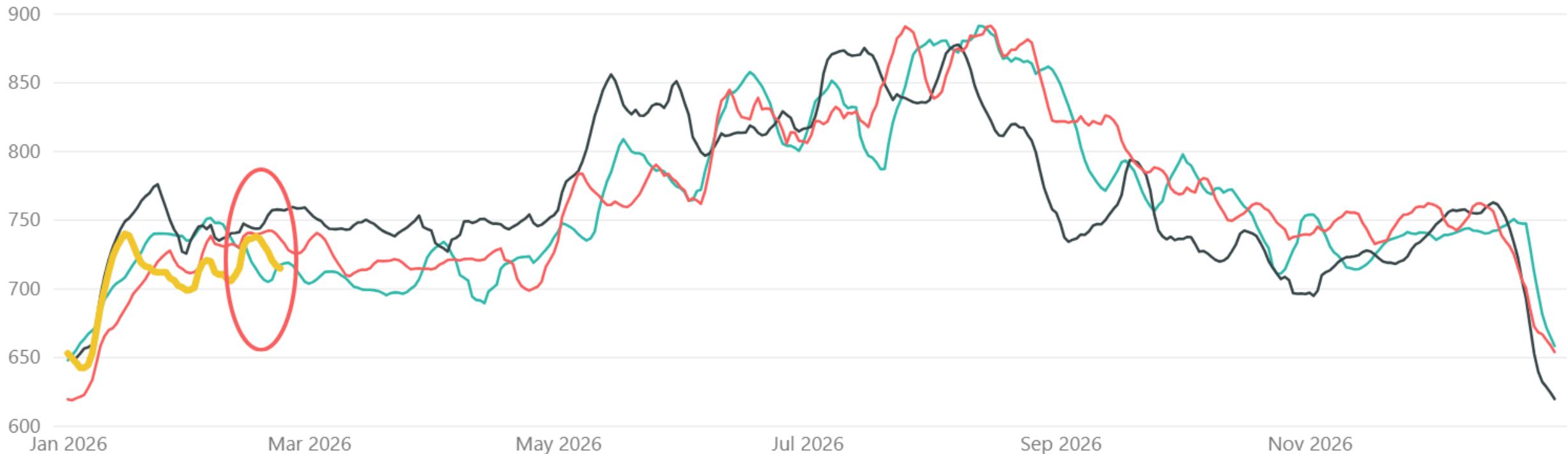


# Demand

- Demand dropped last week with cooler temperatures, after warm and humid temperatures drove higher demand the previous week
- Outages on distribution networks with extreme weather

National Weekly Demand - GWh - 7 Day Rolling

year ● 2023 ● 2024 ● 2025 ● 2026

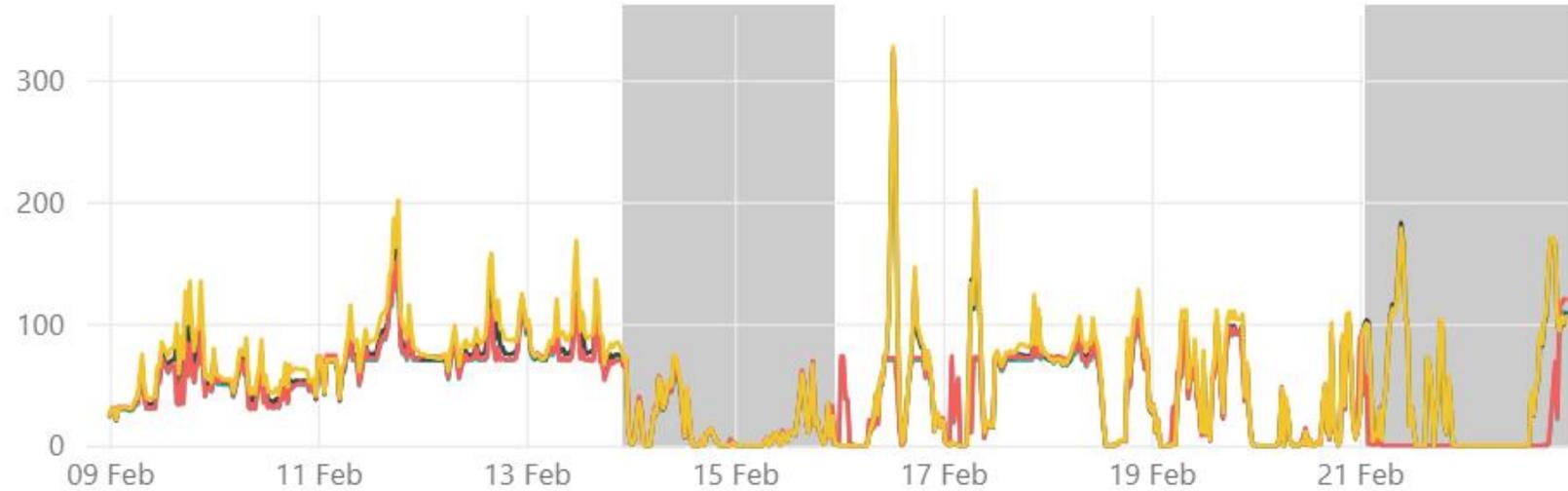


# Pricing

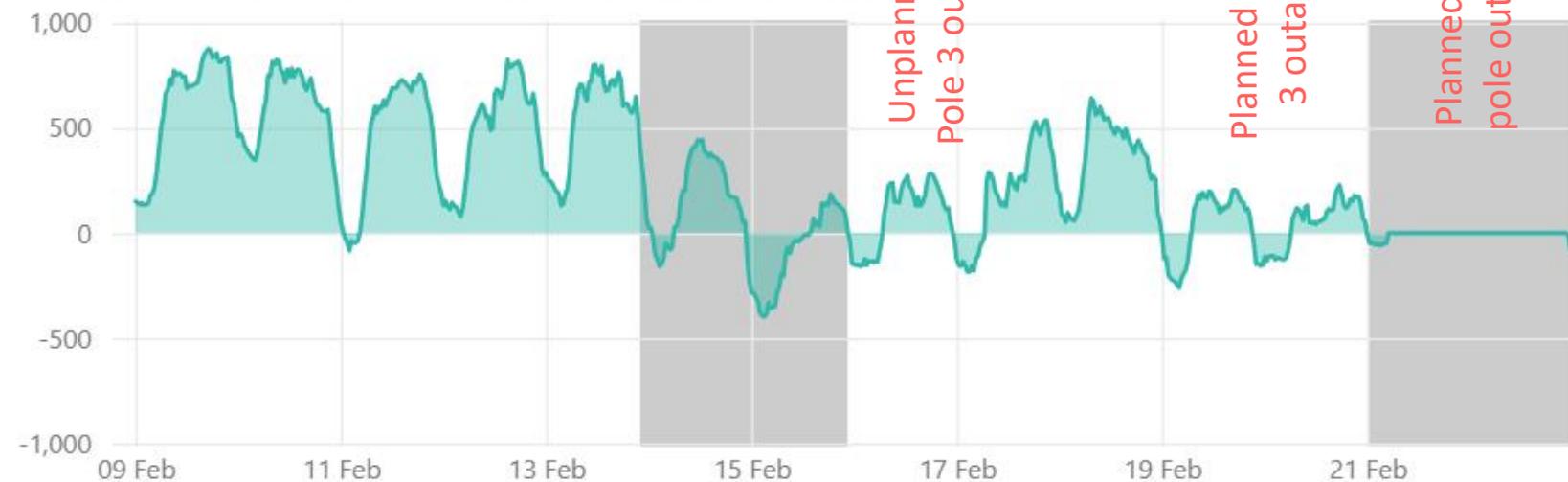
- Average price last fortnight of \$54/MWh at Ōtāhuhu, \$41/MWh at Benmore
- Price separation during HVDC outages last week
- Peak of \$327/MWh at Ōtāhuhu, 9:00 pm on 4 February during the unplanned HDVC outage

Prices - \$/MWh

● Benmore ● Haywards ● Invercargill ● Otahuhu



Net HVDC Transfer - MW (Northward positive)

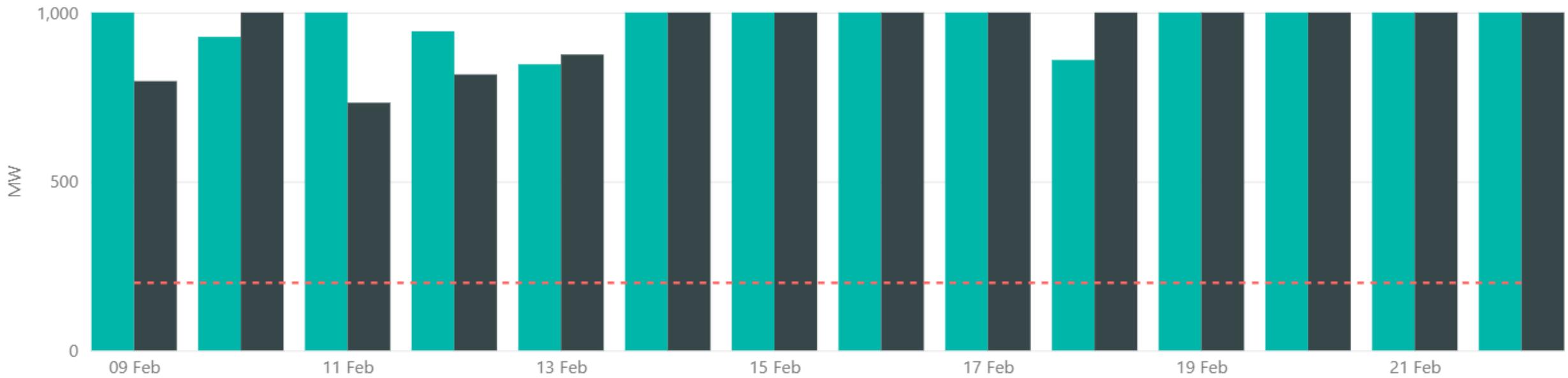


# Capacity residual margins

- Residuals continue to be healthy with low demand
- Lowest point at 17:30 on Wednesday 11 Feb at 730 MW, with higher demand and low wind generation

Lowest Residual Points - MW

● AM ● PM - - - Low residual CAN threshold





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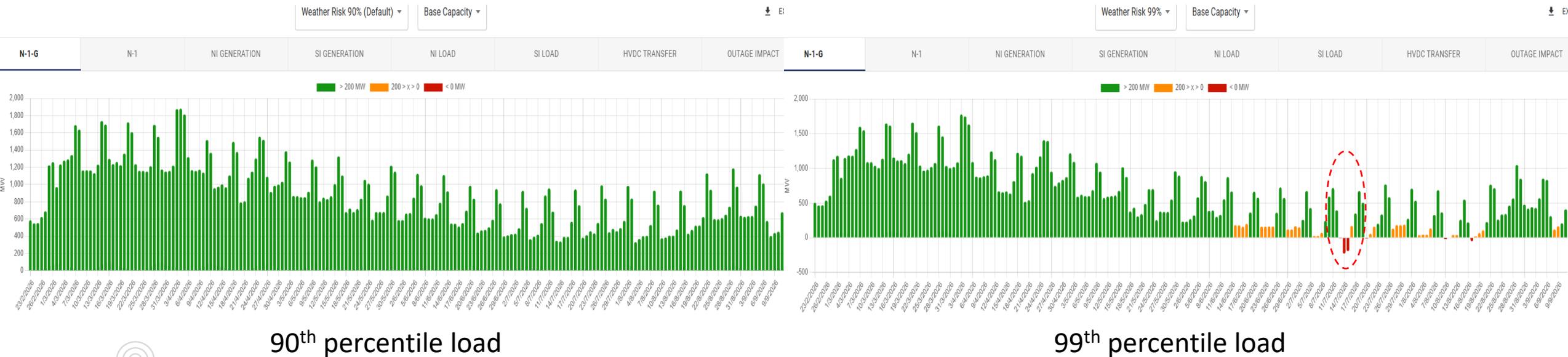
**NZGB update**

# NZGB update: base capacity N-1-G

- N-1-G margins for 90<sup>th</sup> percentile load are currently showing healthy values
- Under the 99<sup>th</sup> percentile load, which we would expect under a cold snap, the margins drop substantially through the winter months and shows some shortfalls in mid July

Base case capacity at 90%

- **This triggers the CAN process**
- Assumes all generation available in POCP is offered
- It uses 20% of total wind capacity



90<sup>th</sup> percentile load

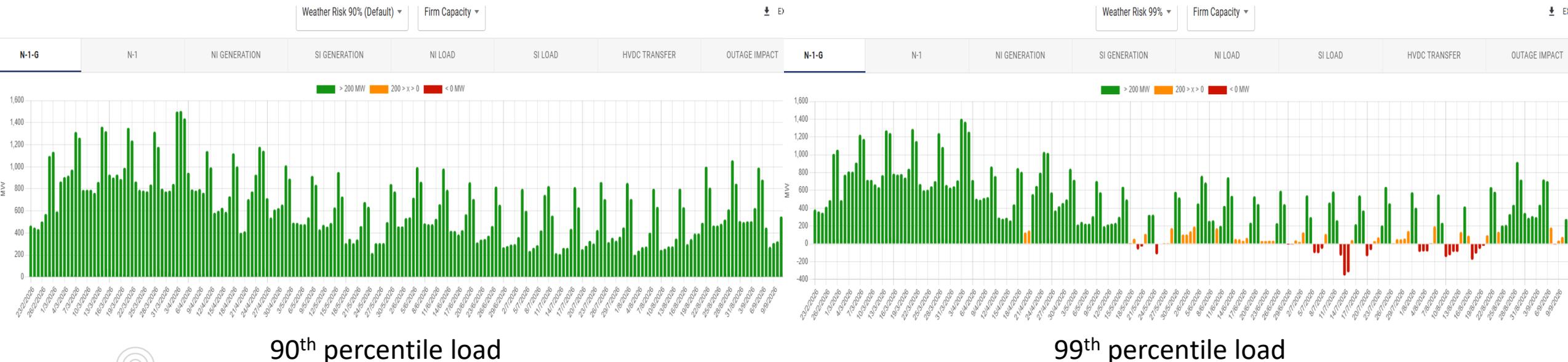
99<sup>th</sup> percentile load

# NZGB update: firm capacity only N-1-G

- Firm capacity scenario reflects units that historically operate for at least 90% of AM & PM peaks.
- Any shortfall or low margin periods highlight the potential reliance on these units to be available to cover N-1-G
- This means we are relying on the market to coordinate especially slow starting thermal units, to get through high peak load periods

### Firm capacity removes

- 1 HLY Rankine over winter months June to November, and 2 Rankines over the remaining months
- It uses the lowest 10<sup>th</sup> percentile generation for wind (8% of total capacity)



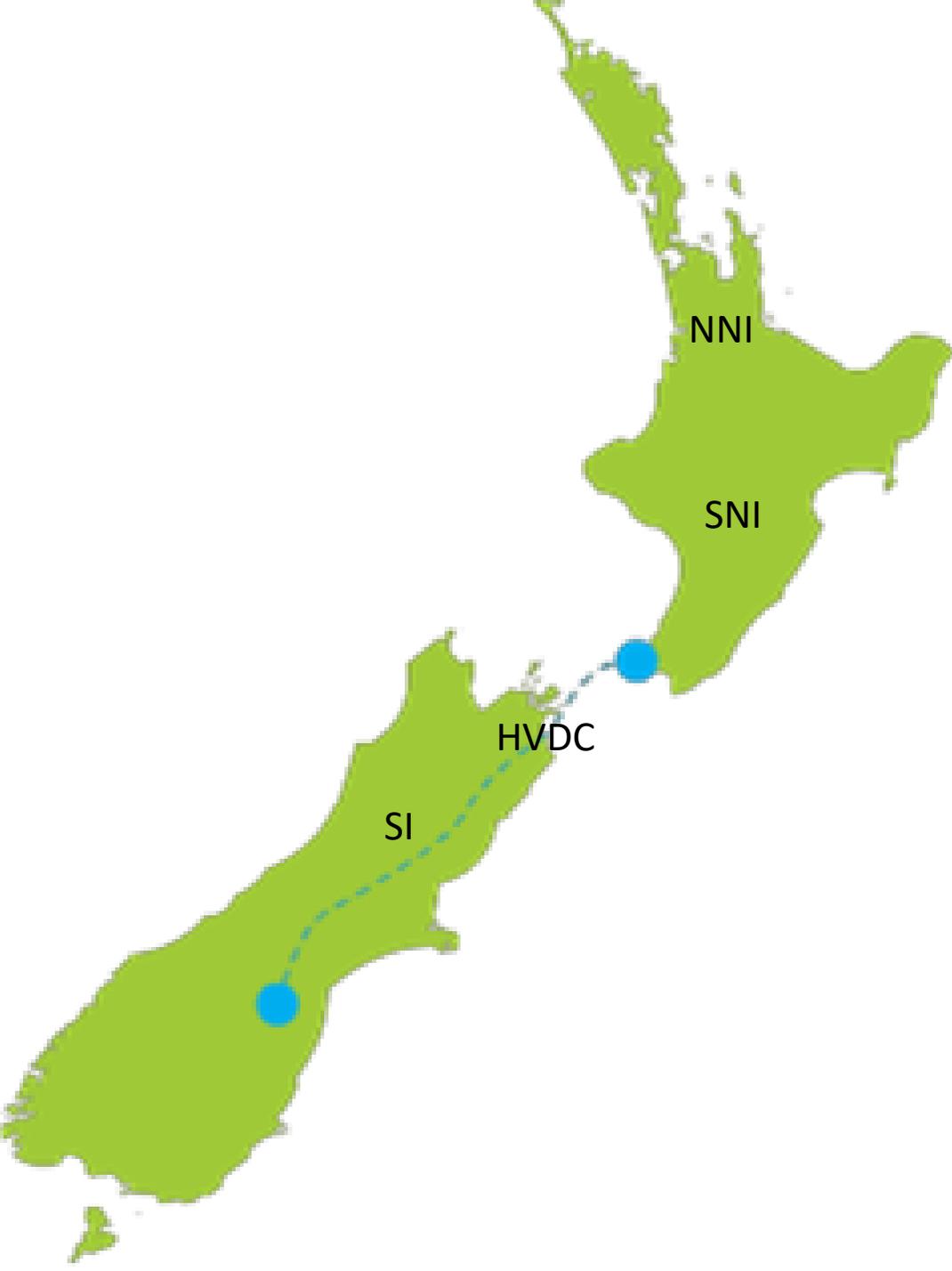
90<sup>th</sup> percentile load

99<sup>th</sup> percentile load



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**Outages next 4 weeks**



## Outages

- NNI outages
- SNI outages
- SI outages
- HVDC outages

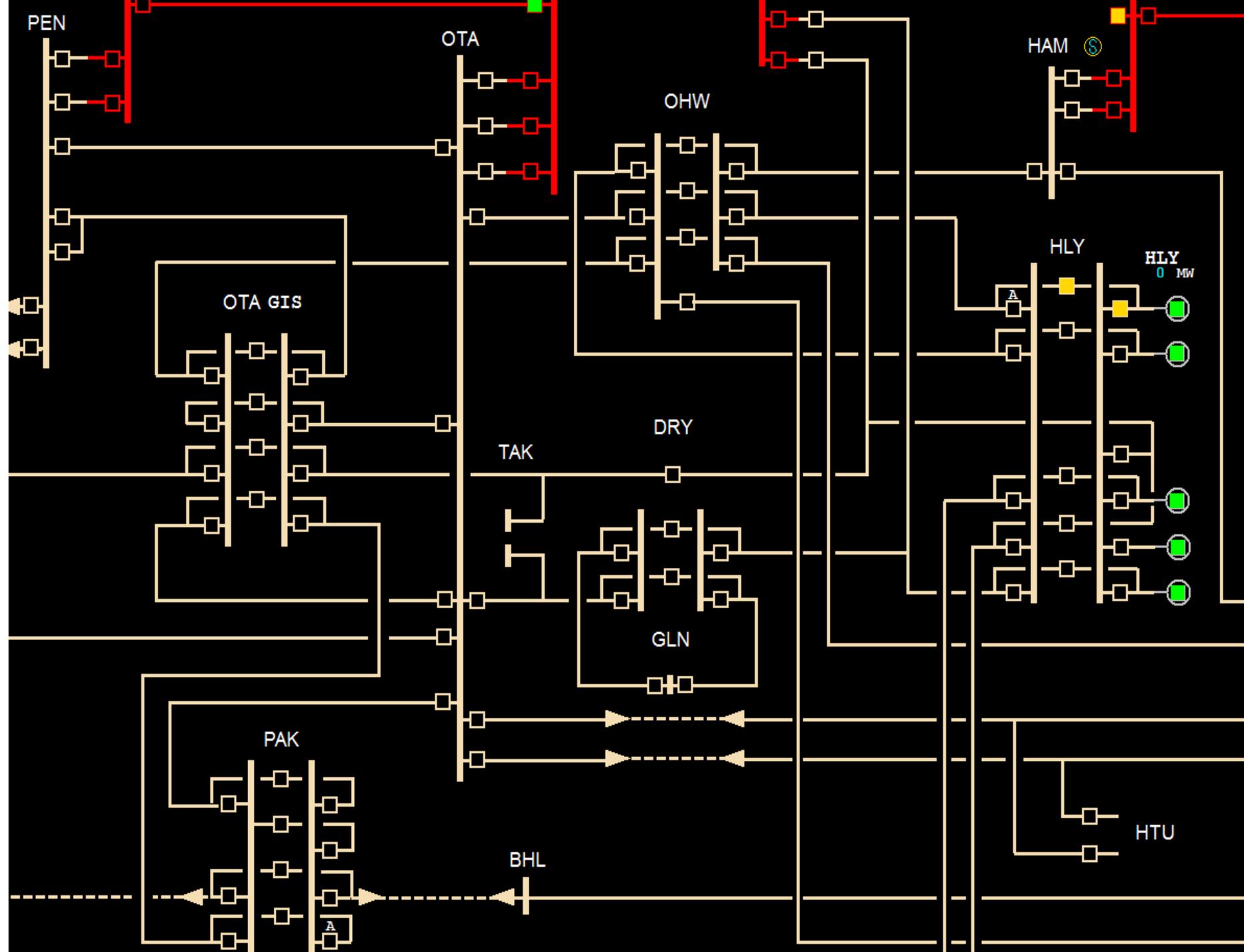
## Asset owners

- Check in POCP for detailed dates
- Consider the impact on your own outages



# NNI Outages

- Week of 2 Mar
  - ALB\_WRD\_4
  - HAM\_OHW\_1
  - HLY\_OHW\_1
- Week of 9 Mar
  - ALB\_WRD\_4
  - OWH\_OTA\_2
  - OTA\_HTU\_WKM\_2
- Week of 16 Mar
  - ALB\_WRD\_4
  - HOB\_PEN\_1
  - OTA\_T5
- Week of 23 Mar
  - DRY\_TAK\_OTA\_1
  - ALB\_HEN\_3
  - EDG\_TRK 1 & 2 (2 days)



# SNI Outages

- Week of 2 Mar

- TKU\_WKM\_2
- BRK\_SFD\_2
- HAY\_WIL\_LTN\_1
- HAY\_T2

- Week of 9 Mar

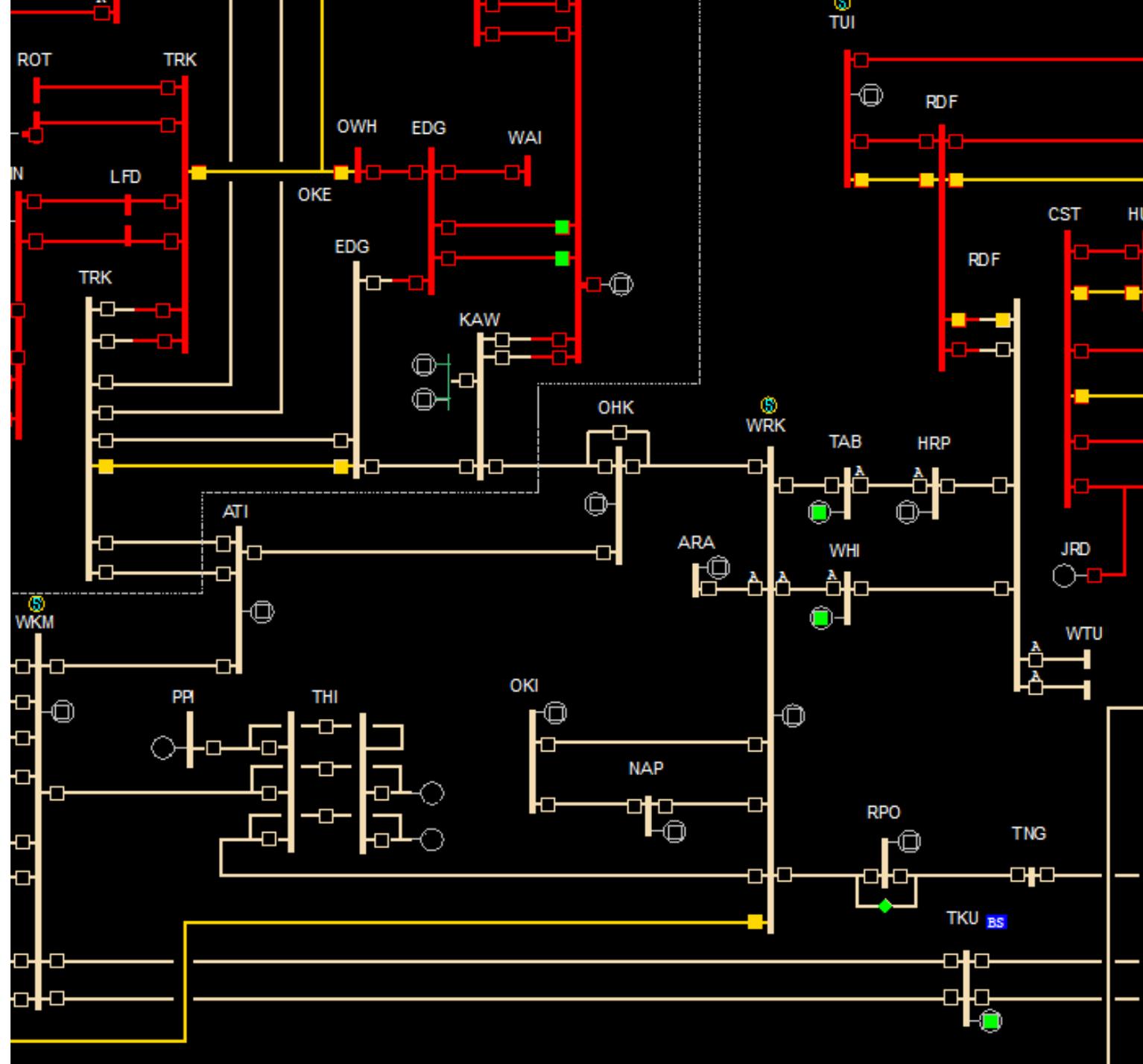
- TKU\_WKM\_2
- BPE\_TKU\_2
- BRK\_SFD\_3
- HAY\_WIL\_LTN\_1

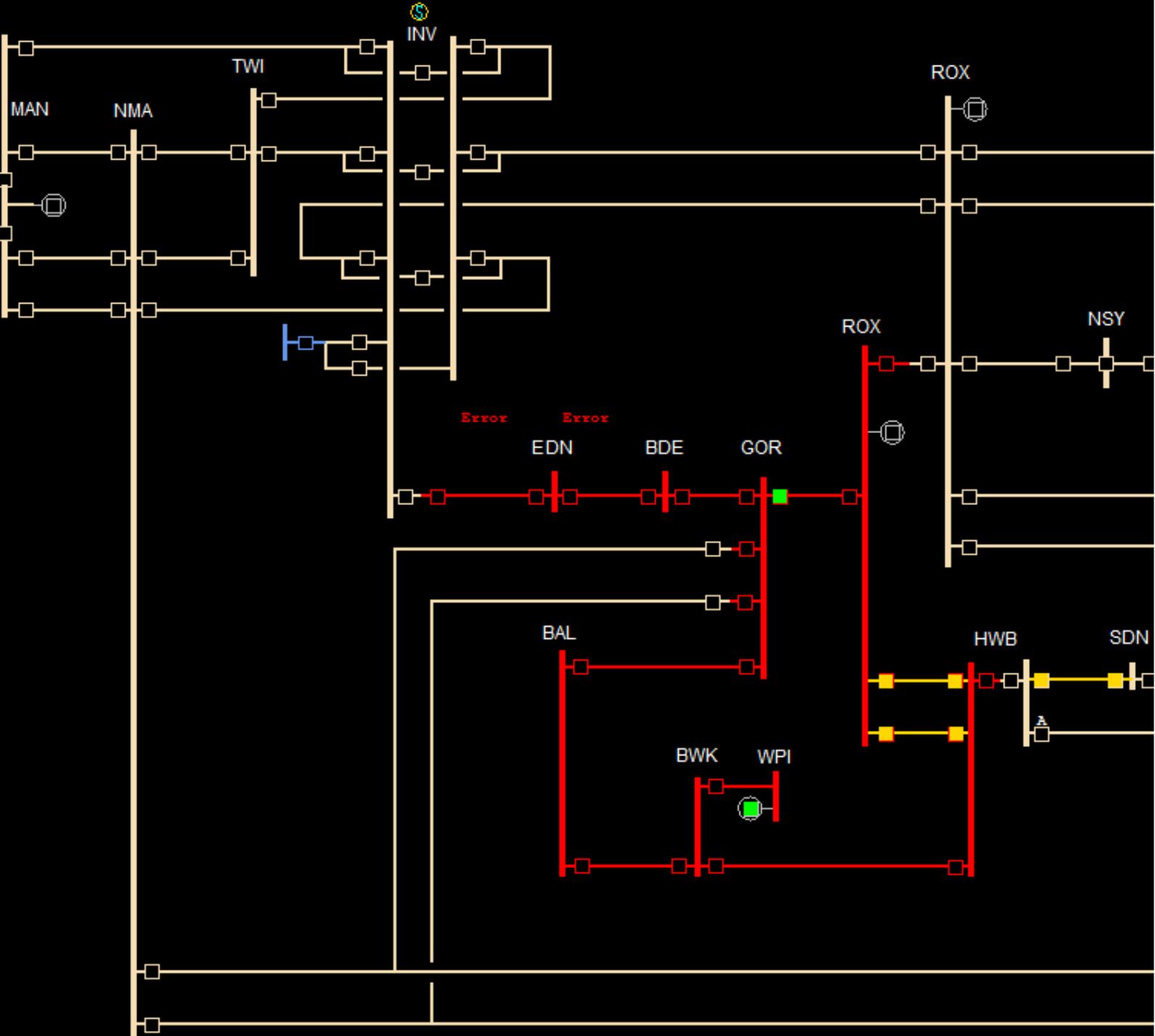
- Week of 16 Mar

- TKU\_WKM\_2
- BPE\_TKU\_2
- BRK\_SFD\_3
- HAY\_WIL\_LTN\_1
- BPE\_TWC\_LTN\_1

- Week of 23 Mar

- TKU\_WKM\_2
- BPE\_TKU\_2
- BRK\_SFD\_3
- HAY\_WIL\_LTN\_2
- HAY\_T1

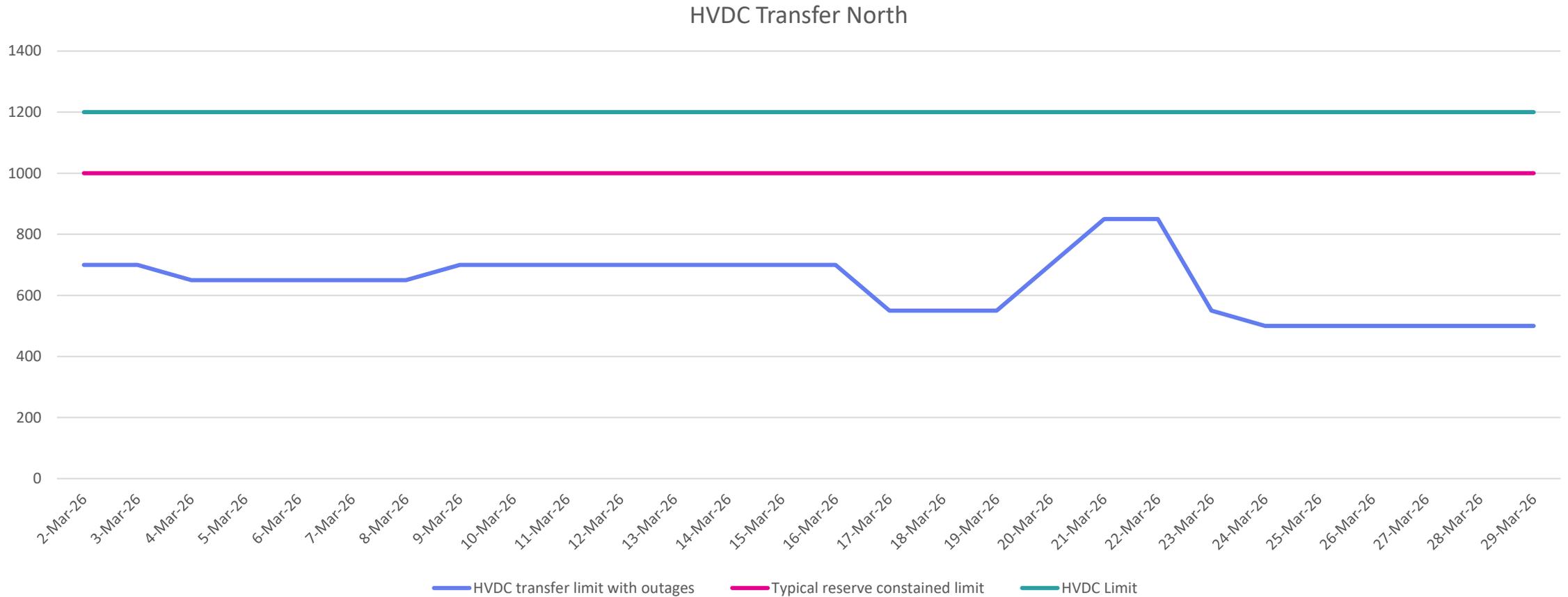




## SI Outages

- Week of 2 Mar
  - BRY\_ISL\_1
- Week of 9 Mar
  - INV\_ROX\_1
- Week of 16 Mar
  - ISL\_KIK\_1
  - INV\_TWI\_1
  - NMA\_GOR\_TMH\_1
- Week of 23 Mar
  - NMA\_GOR\_TMH\_1
  - MAN\_NMA\_3

# HVDC North transfer limit



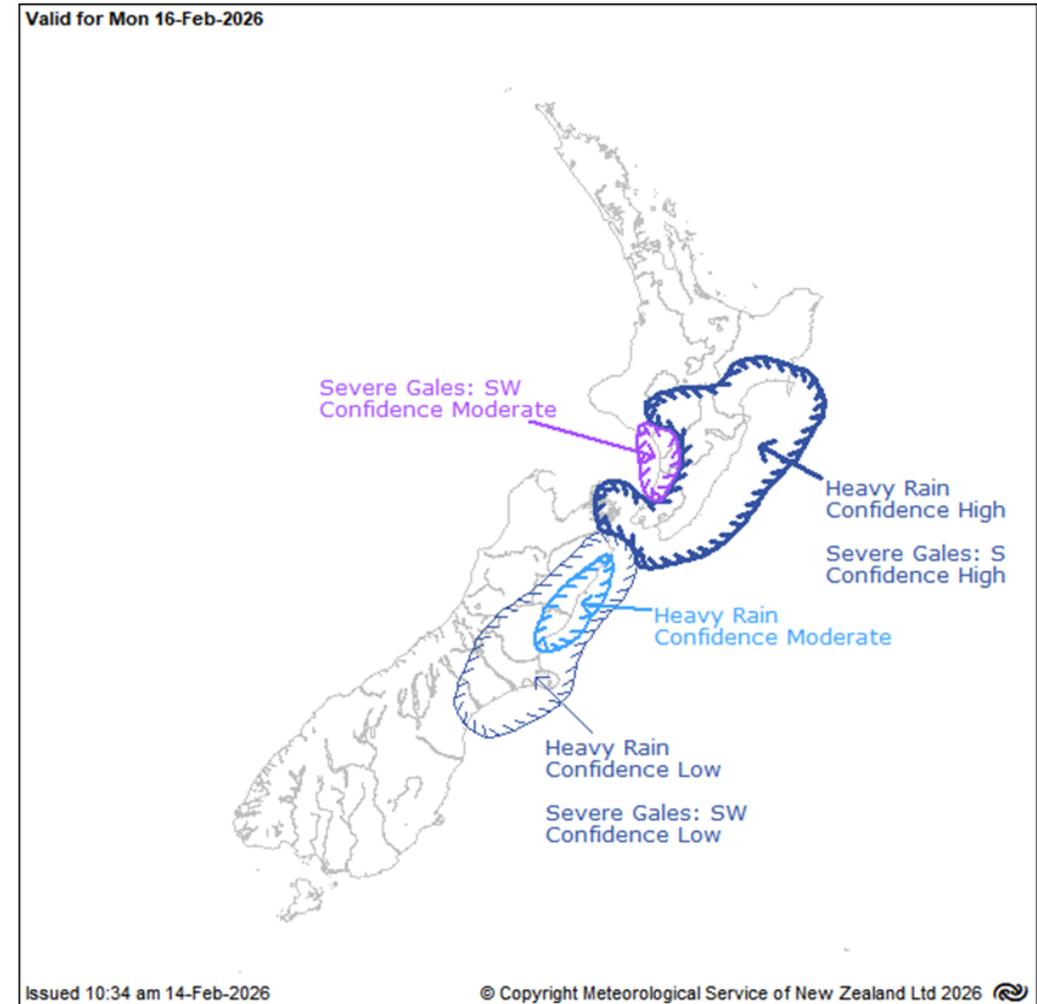
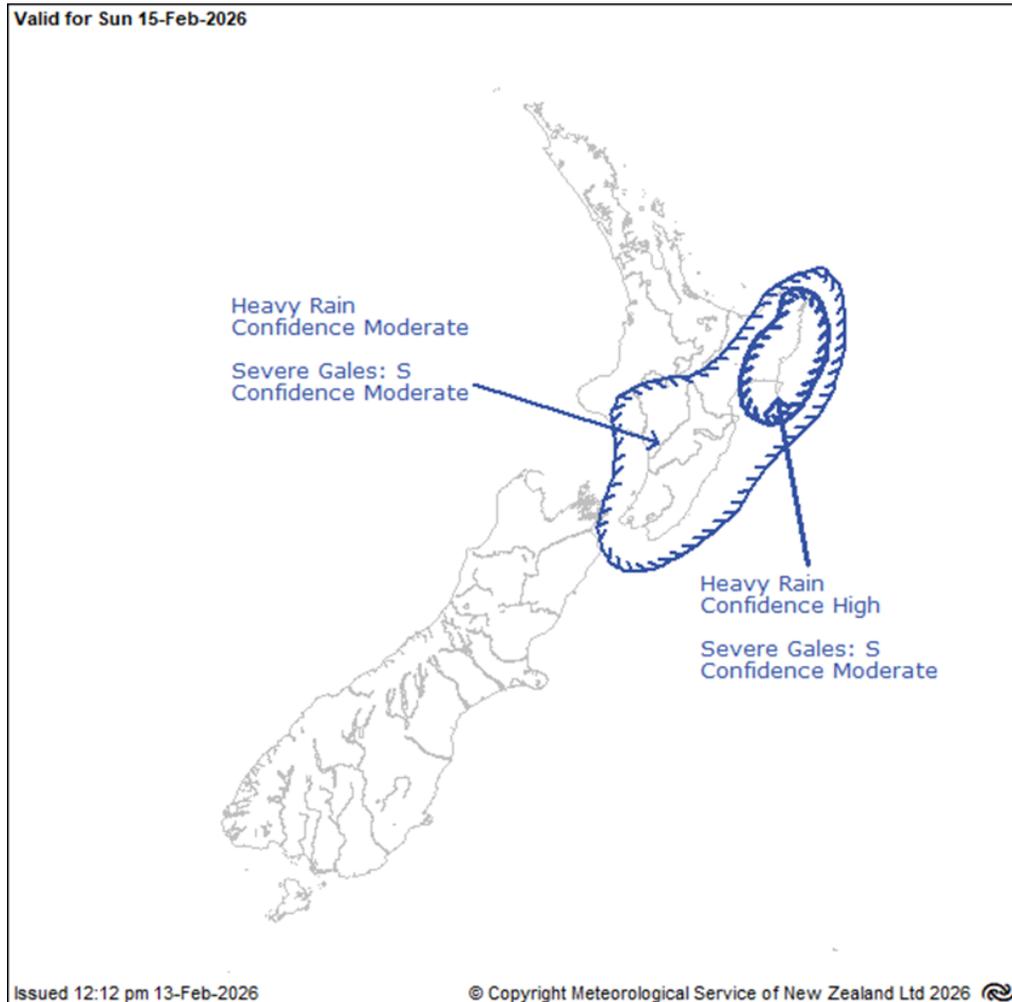


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**Operational update**

# 15-16 February Weather Event

## MetService Weather Warnings



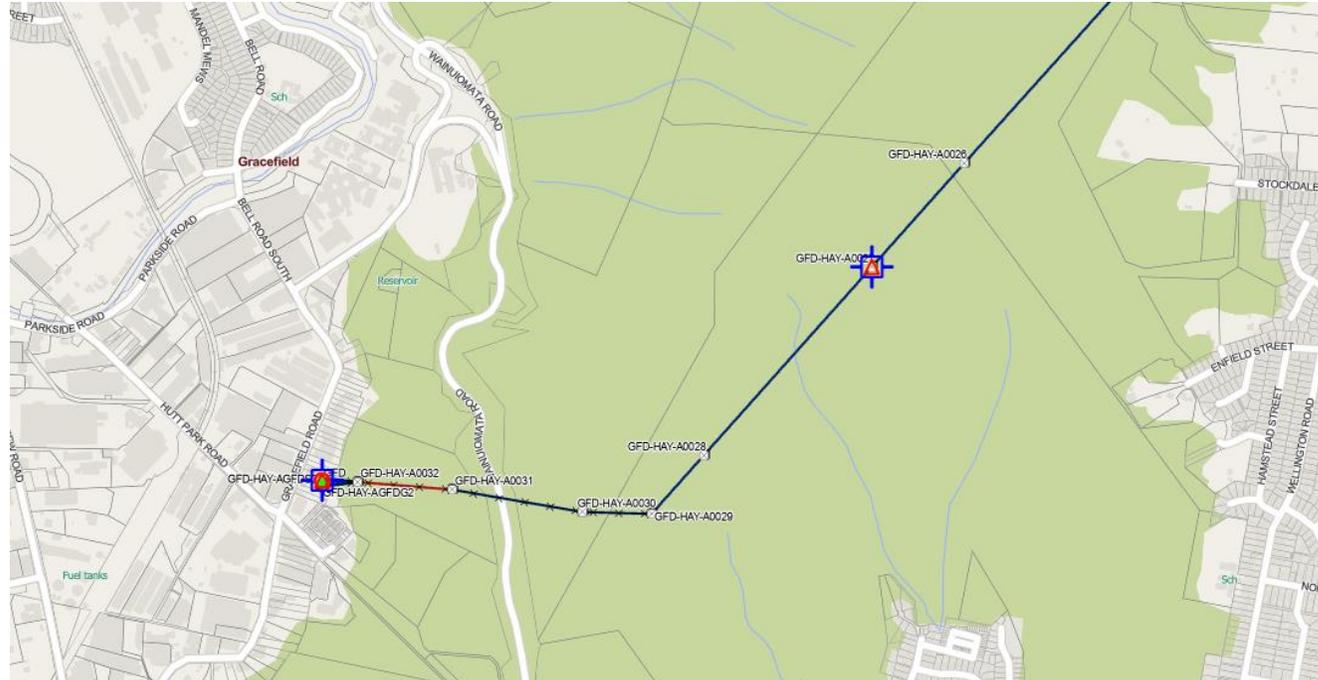
# 15-16 February Weather Event

## Timeline

- **15/02/2026 2:17:00 pm - CST\_SFD\_2 - Tripped - and unsuccessfully AR**
- 15/02/2026 7:35:00 pm - TKR\_FDR\_2192 - Tripped - Protection flags - I/trip Received.
- 15/02/2026 7:56:00 pm - TKR\_FDR\_2232 - Tripped - Protection flags - I/trip 1 Received.
- 15/02/2026 7:56:00 pm - HAY\_POLE\_3 - HVDC Commutation Failure - Due to AC feeder faults at TKR
- **15/02/2026 9:07:00 pm - HAY\_POLE\_3 - Tripped - Differential trip on Converter Transformer**
- 15/02/2026 9:55:00 pm - PNI\_FDR\_292 - Tripped - Intertrip Sig received
- 15/02/2026 10:05:00 pm - HAY\_FDR\_2842 - Tripped - Inverse Time OC Operated
- **15/02/2026 10:13:00 pm - GFD\_HAY\_2 - Tripped - and successfully AR**
- 15/02/2026 11:05:00 pm - BEN\_HAY\_2 - Tripped -restarted in reduced voltage. Fault indicating TWR 4 near OTB.
- **15/02/2026 11:48:00 pm - GFD\_HAY\_2 - Tripped - and successfully AR**
- **15/02/2026 11:55:00 pm - BPE\_MTR\_1 - Tripped - Protection flags. SDTF Towers 61-161**
- 16/02/2026 12:18:00 am - MLG\_FDR\_10 - Tripped - Protection flags - O/C Time.
- **16/02/2026 1:15:00 am - GFD\_HAY\_2- Tripped - and successfully AR**
- 16/02/2026 1:15:00 am - CPK\_WWD\_WIL\_3 - Tripped - and successfully AR - WWD\_CB\_262 remained open
- 16/02/2026 1:28:00 am - PRM\_FDR\_2232 - Tripped - I/Trip Received.
- **16/02/2026 2:29:00 am - GFD\_HAY\_2- Tripped - and successfully AR**
- 16/02/2026 2:34:00 am - WGN\_FDR\_2202 - Tripped - Zone 1, R-PH, Y-PH, B-PH
- 16/02/2026 3:46:34 am - IGH\_ROB\_2 - Call from public - Fire n Emergency reports fire near tower IGH-WMG-A0071

# CST-SFD 2 and GFD- HAY 2 tripping's

- CST-SFD-2 – broken insulator caused conductor to fall to the ground
- GFD-HAY 2 – probable conductor clashing close to GFD sub

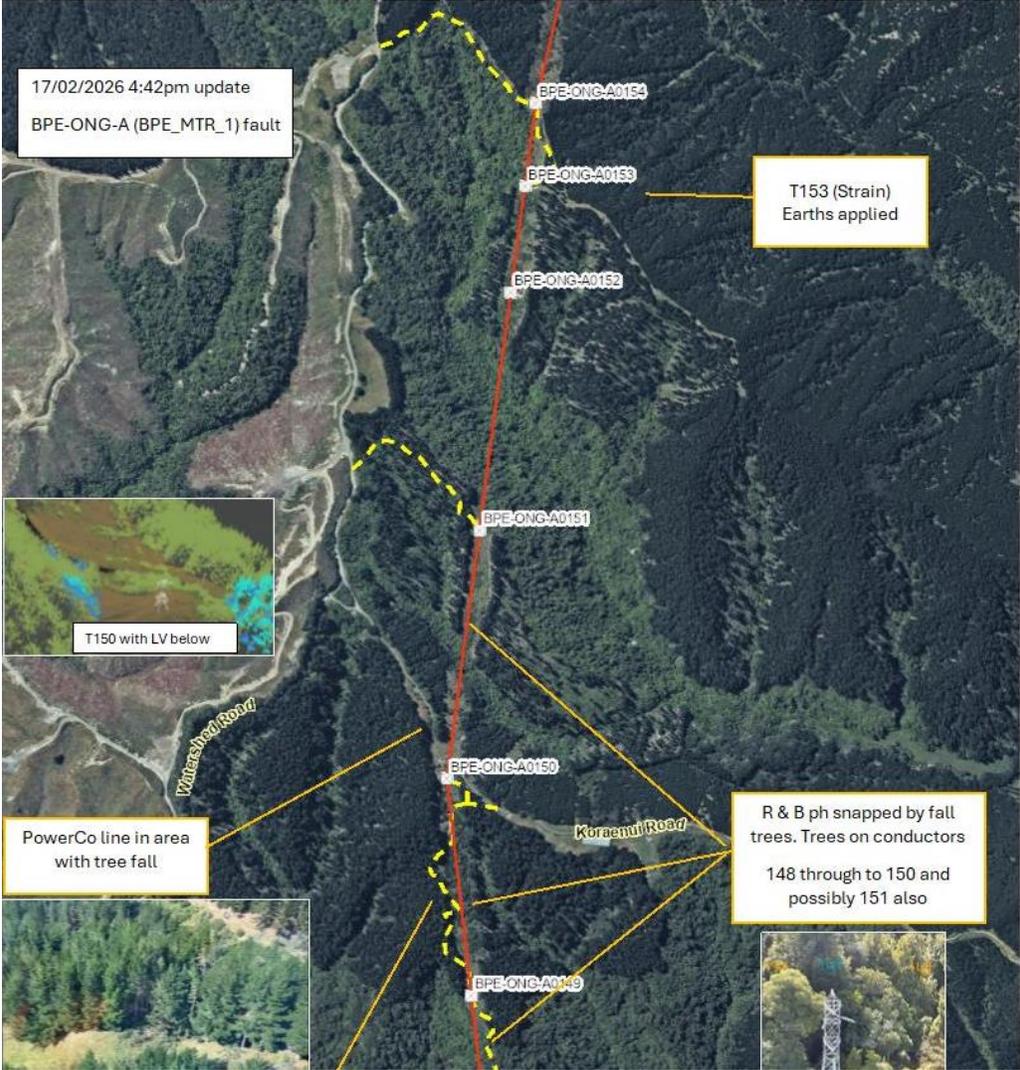


# BPE-MTR 1 tripping

Trees fell onto conductors across multiple spans. Single span with broken conductors.

Site difficult to access.

Repair work completed Saturday 21-Feb.



# HVDC Pole 3 tripping

Flashings removed from the second firewall

Contact from the flashings caused a fault between the conductor and TX tank



# South Island Black Start Exercise 18-Feb-2024

## Operations Division

### PR-CP-092 South Island Black Start (CYD) Contingency Plan

This Procedure is part of the Contingency Plan (CP) process within Transpower and forms part of the System Operator and Grid Operations function. The document can be found in the [Operational Documentation Library](#)

Document Status: **Issued**

Published Date: **7/11/2025**

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## Operations Division

### PR-CP-578 South Island Black Start (AVI) Contingency Plan

This Procedure is part of the Contingency Plan (CP) process within Transpower and forms part of the System Operator and Grid Operations function. The document can be found in the [Operational Documentation Library](#)

Document Status: **Issued**

Published Date: **7/11/2025**

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# SCADA system update Week commencing 2-March

## Customer Advice Notice

**To:** CAN NZ Participants  
**Sent:** 23-feb-2026 13:41  
**Ref:** 7162310297

**From:** The System Operator  
**Telephone:** 0800 488 500  
**Email:** NMData@transpower.co.nz

Revision of:

ICCP and SCADA interruptions due to the planned update of Transpower's SCADA System

Next week commencing **Monday 2 March 2026**, Transpower will be upgrading critical SCADA system components to a newer version. The upgrade is scheduled to be implemented between **Monday 2 March and 4 March 2026**, with reserve days on **Thursday 5 March** and **Friday 6 March 2026**, if required. During the upgrade, there will be planned interruptions to SCADA and Inter-Control Centre Communications Protocol (ICCP) services, as detailed below.

### **Monday 2 March 2026 - 09:00 – 16:00**

#### ***All customers relying on Transpower SCADA data or control services***

- A series of brief interruptions, each lasting up to 60 seconds, will affect all SCADA services. Customers relying on Transpower SCADA data or control services may experience short periods of disconnection.
- Requests for Transpower-facilitated non-emergency switching may be subject to delays during this time.

### **Tuesday 3 March 2026 - 09:00 – 16:00**

#### ***Multiple-Frequency Keeper (MFK) Providers***

- Interruptions to ICCP data may occur for MFK providers. To minimise disruption, Transpower may temporarily pause regulating values for short periods as required.
- No action is required from MFK providers.

### **Wednesday 4 March 2026 - 09:00 – 21:00**

#### ***Customers relying on SCADA data or control services, ICCP customers, and MFK providers***

- A series of brief interruptions, each lasting up to 60 seconds, will affect all SCADA services, potentially resulting in short periods of disconnection for customers relying on SCADA data or control services.
- Requests for Transpower-facilitated non-emergency switching may be subject to delays.
- A series of brief interruptions, each lasting up to 60 seconds, will also affect all ICCP services, potentially resulting in short periods of disconnection for customers relying on ICCP data.
- For MFK providers, interruptions to ICCP data may occur. Transpower will use best endeavours to minimise disruption by temporarily pausing regulating values for short periods where necessary. No action is required from MFK providers.



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# SO Generation Commissioning & Testing update

# Recent & Current New Commissioning Projects

## Recently Commissioned

<input type="checkbox"/>	Project	Project Type	Stage	1st Sync Date	Net New Capac...	Connection	Asset Owner	Energy Type
<input type="checkbox"/>	NTM - Ngā Tamariki OEC 5	New Build	Closeout	16 Jan, 2026	56.87	Transpower	Mercury	Geothermal
<input type="checkbox"/>	GLN STC - Glenbrook STATCOM (NZ Steel)	New Build	Closeout	9 Feb, 2026		Transpower	New Zealand Steel	Reactive Power
<input type="checkbox"/>	TRS - Twin Rivers Solar Farm (Stage 3)	New Build	Closeout	27 Jan, 2026	24	Top Energy	Rānui Generation	Solar

## Currently Commissioning

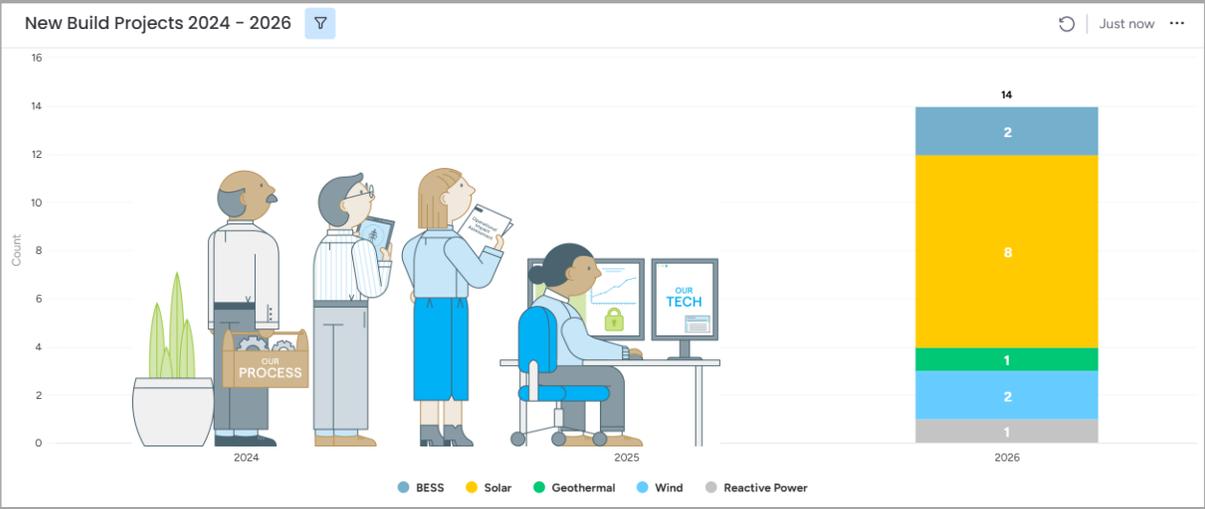
<input type="checkbox"/>	Project	Project Type	Stage	1st Sync Date	Net New Capac...	Connection	Asset Owner	Energy Type
<input type="checkbox"/>	GLB - Glenbrook Battery	New Build	Commissioning	4 Feb, 2026	100	Transpower	Contact	BESS

+ 5 upgrades that have either completed, started or due to start commissioning in February

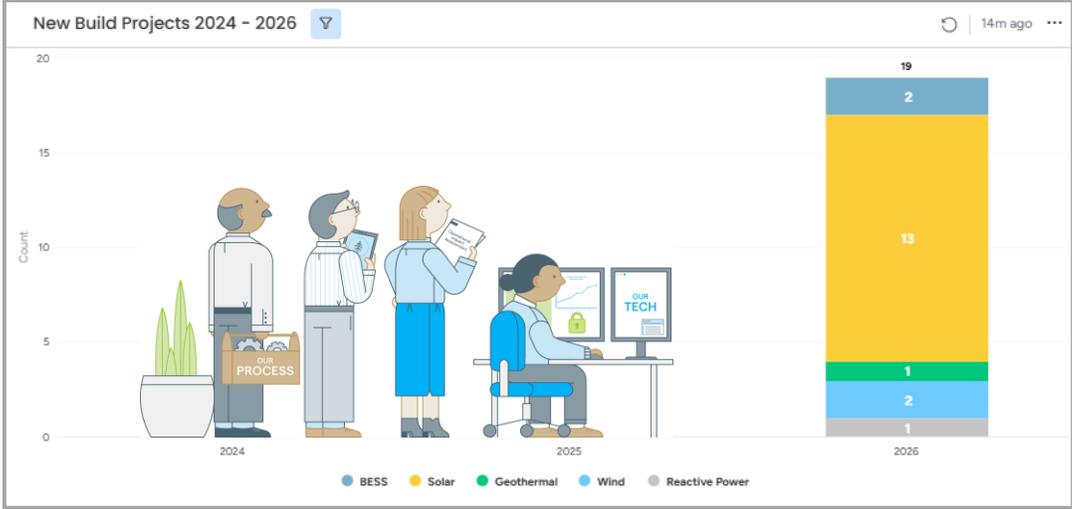


# Increase in New Build Generation Projects + MW

1 January New Build Projects for 2026: 14



24 February New Build Projects for 2026: 19

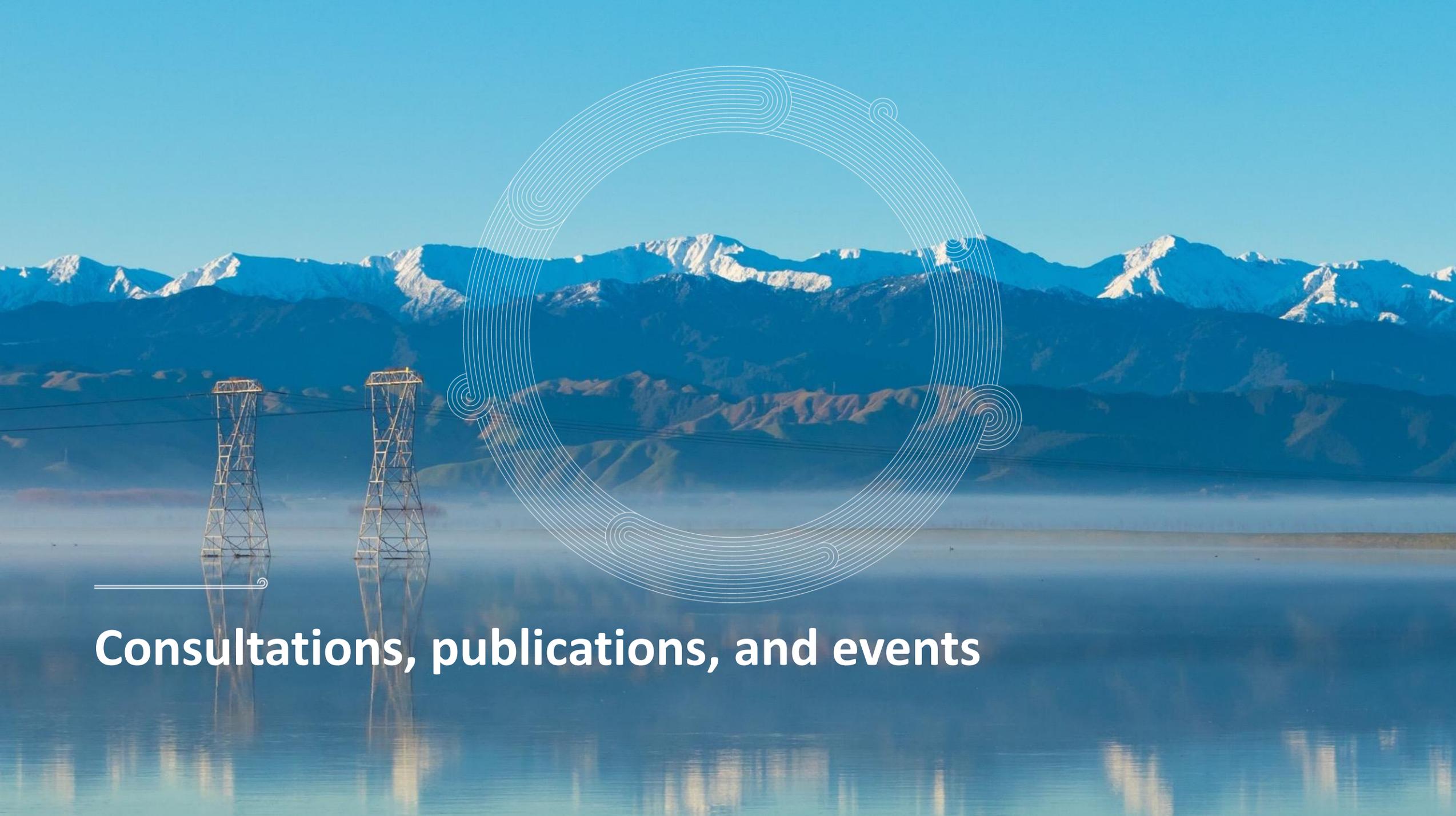


1 January New Build MW for 2026: 1208



24 February New Build MW for 2026: 1320





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**Consultations, publications, and events**

# Consultations, publications, and events

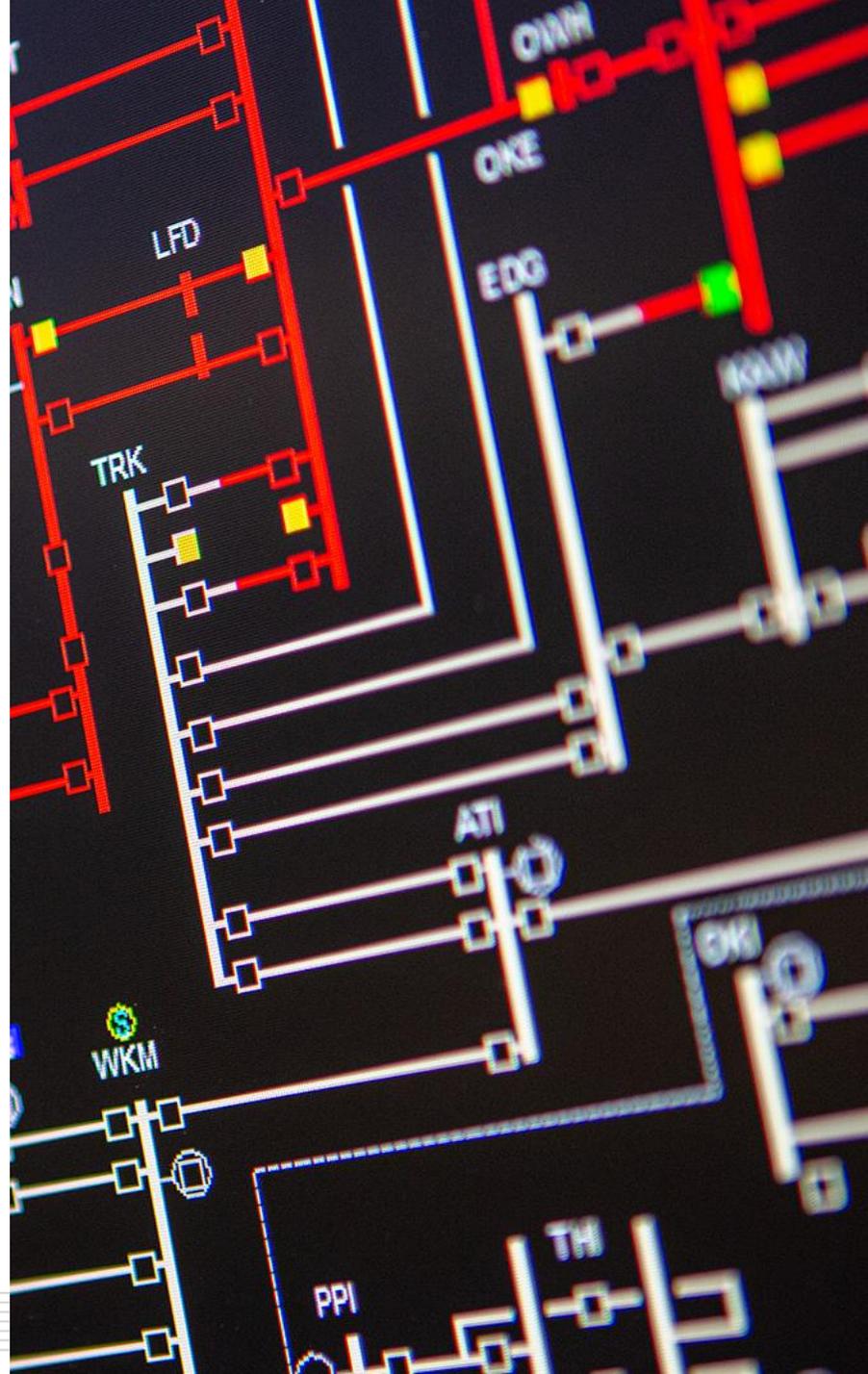
Our consultation on [Key Trends and Issues](#) in the industry closes at 5pm this Friday 27 February. We would appreciate your feedback which will help inform the development of our **System Operator Strategy**.

This Thursday 26 February Transpower will host the Electricity Authority's **Reactive Power and Voltage Coordination workshop**. You can find more information about the workshop on the [Authority's website](#).

Next Thursday 5 March we will be holding a space weather educational webinar. The webinar introduces the theme of our [Industry Exercise 2026](#) scheduled for 20-21 May, which will simulate a major space weather event. There will also be a pre-exercise briefing for participants on 12 May.

We published our latest [Quarterly Security of Supply Outlook](#) last Friday.

We will publish the February [Energy Security Outlook](#) on our website later this week.



# Questions / Patai



Please raise your hand

If you have feedback let us know via our [Feedback Form](#)

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