



TRANSPower

System Operator Industry Forum

5 May 2026



Today's agenda

- Key messages
- Market update
- NZGB update
- Outage update – next four weeks
- Operational update
- Emergency Reserve industry co-design EOI
- Consultations, publications and events
- Questions / Pātai





Key Messages

- Hydro storage remains above average but has reduced slightly as we head into winter. We still recommend conservative South Island management.
- Thermal fuel storage (coal and gas) remain high.
- Note NZGB potential capacity risks from June. Plant availability and flexibility remains a focus for industry during these times.



Market update

Energy: National hydro storage

National hydro storage levels remain above average but have dipped slightly in the last week with less than average inflows

Hydro storage level (% of mean ▲ / ▼)

	New Zealand	South Island	North Island
Last forum	112%	104%	228%
Now	110% ▼	102% ▼	221% ▼

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

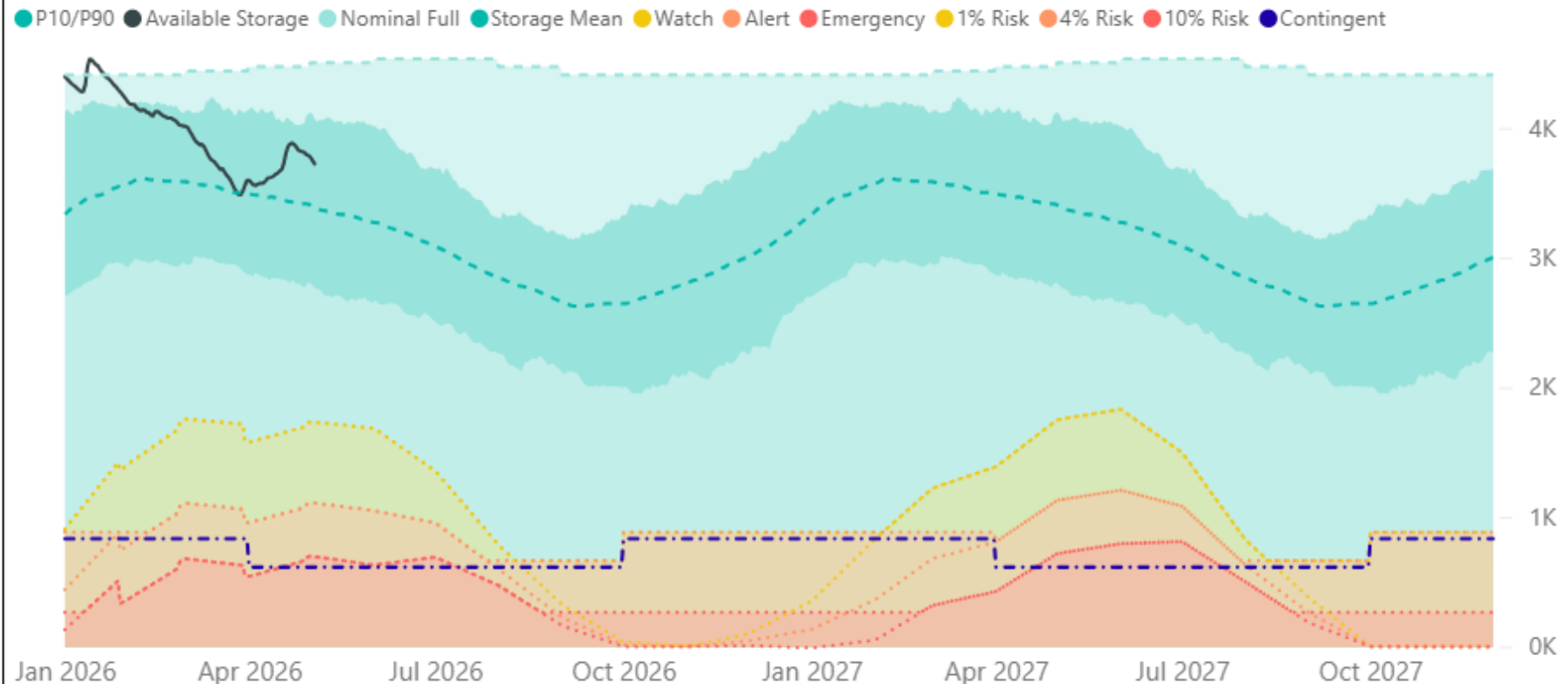
New Zealand Energy Risk



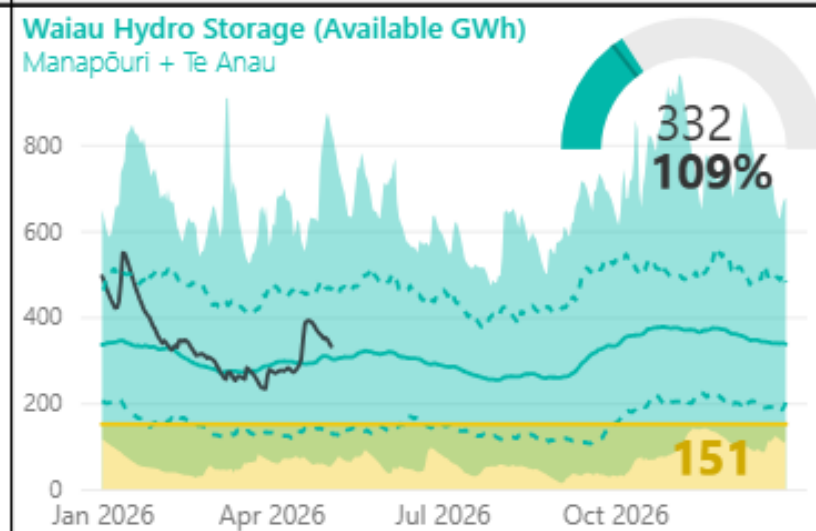
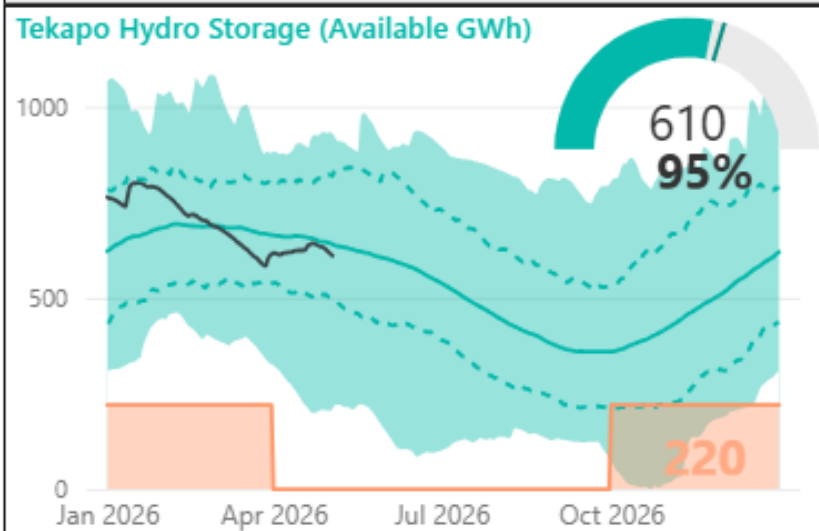
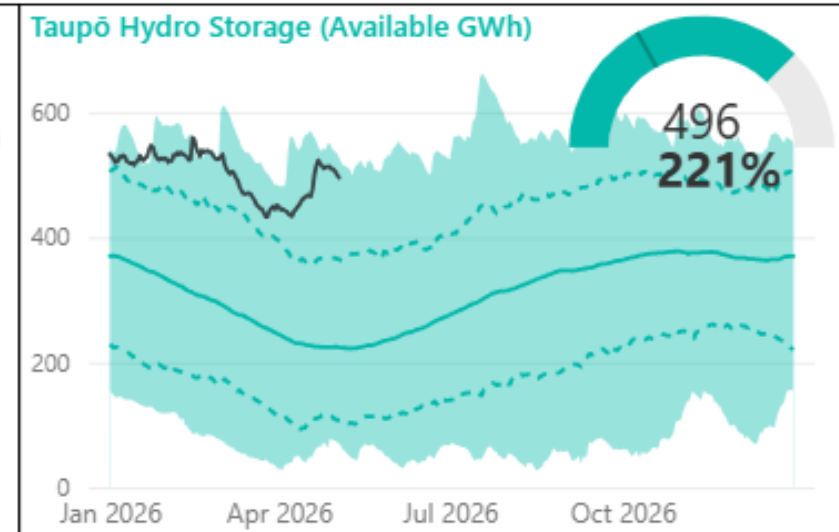
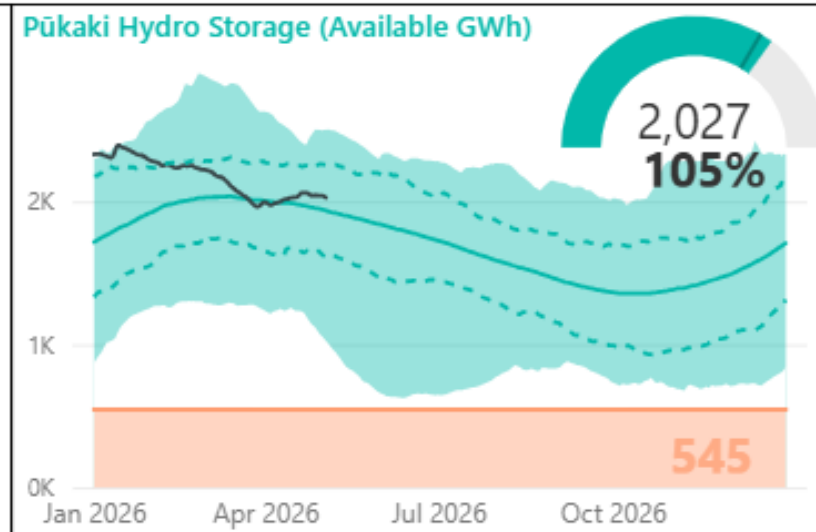
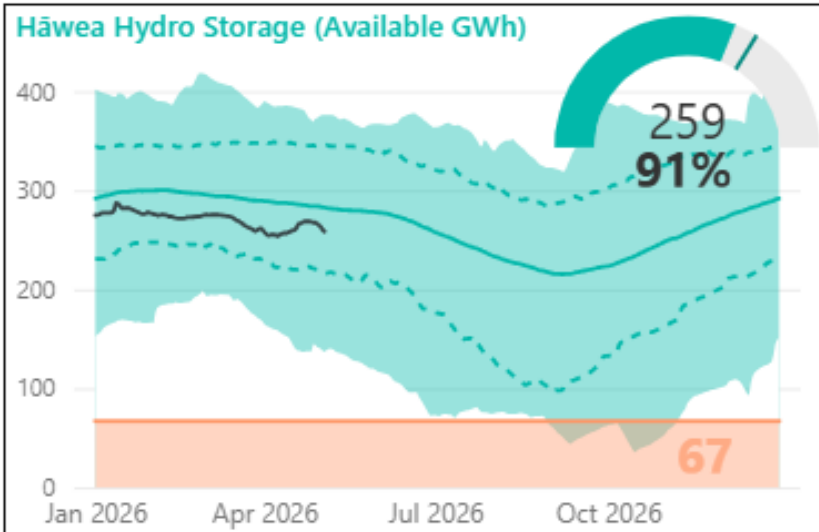
South Island Energy Risk



New Zealand Electricity Risk Status Curves (Available GWh)



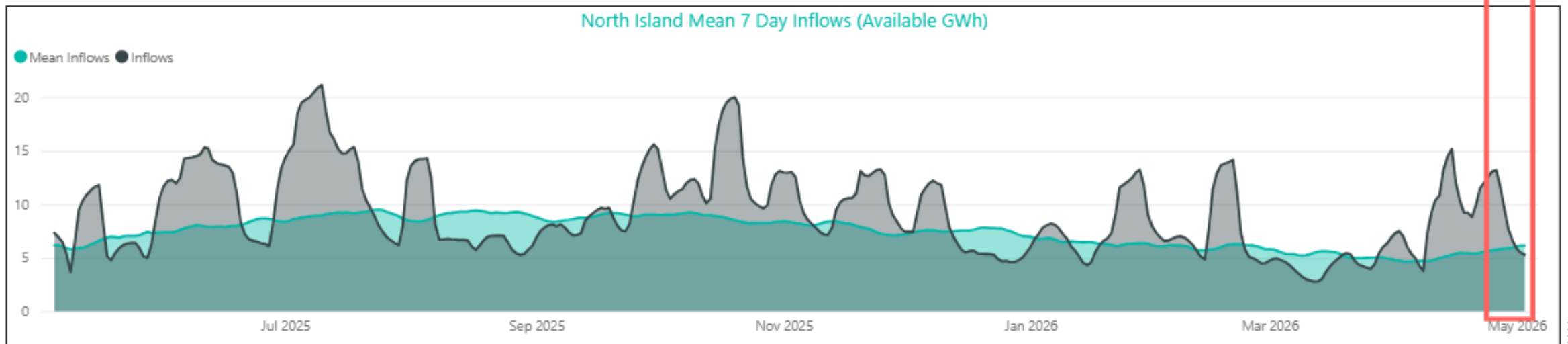
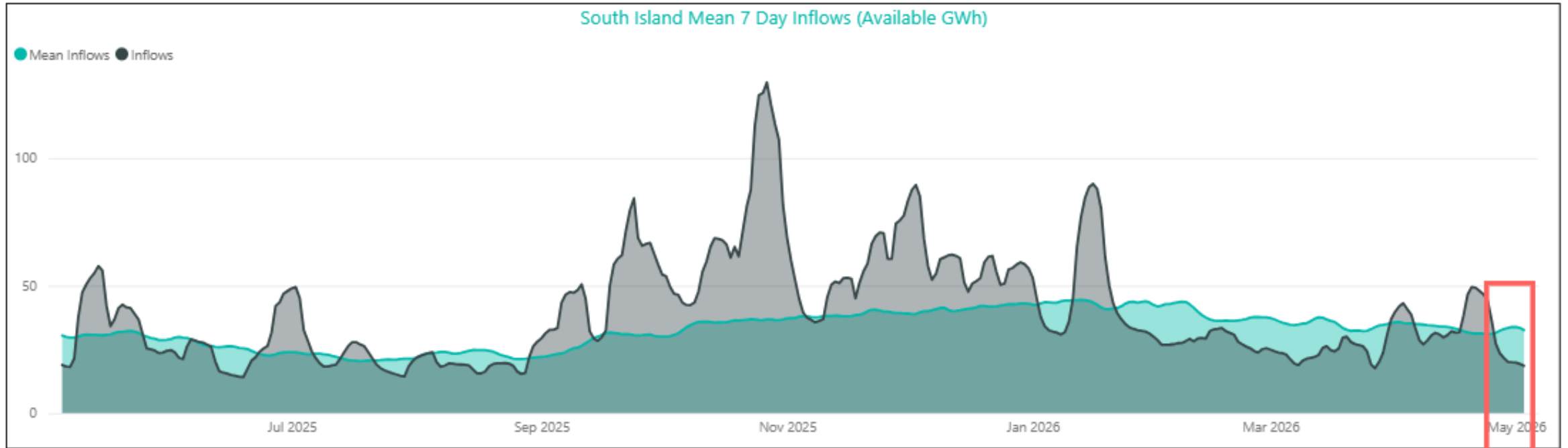
Hydro storage by catchment



Lake	Storage (%)	Storage (GWh)	Historic Mean
Hāwea	91%	258.57	282.63
Manapōuri	153%	164.80	107.43
New Zealand	110%	3,723.20	3,387.21
Pūkaki	105%	2,026.57	1,937.44
South Island	102%	3,227.13	3,162.92
Taupō	221%	496.07	224.29
Te Anau	85%	166.97	195.62
Tekapo	95%	610.22	639.81



Hydro inflows



April 2026

Energy Security Outlook

Changes this update:

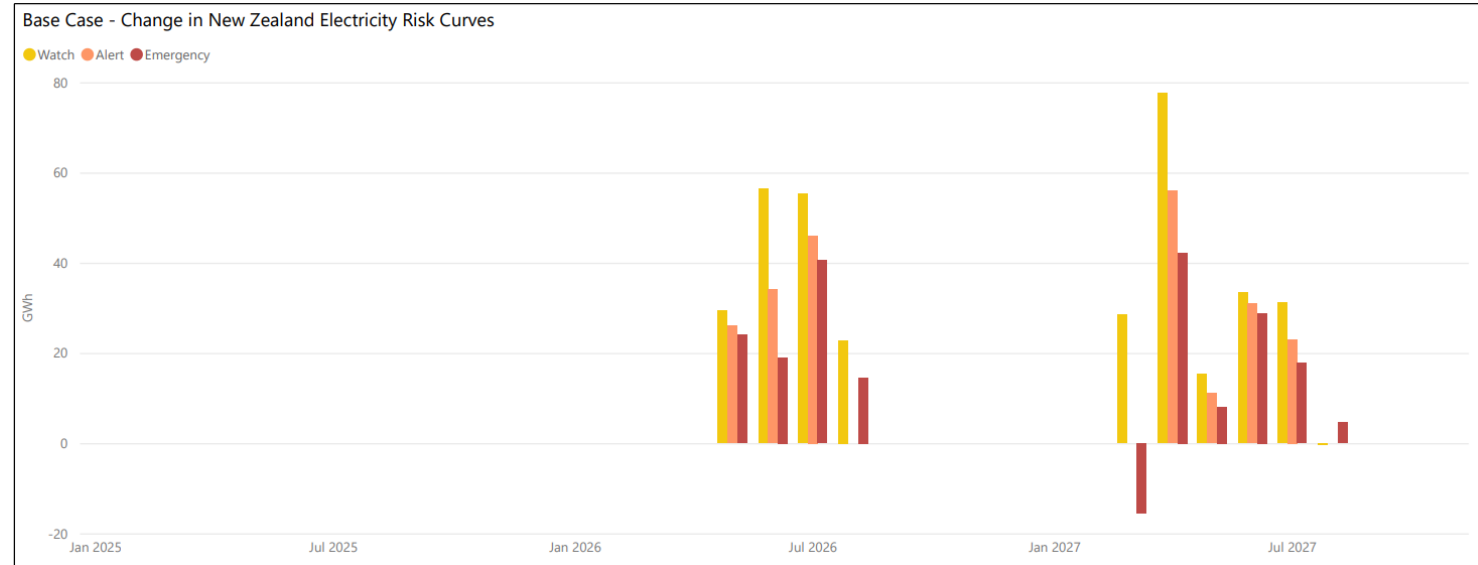
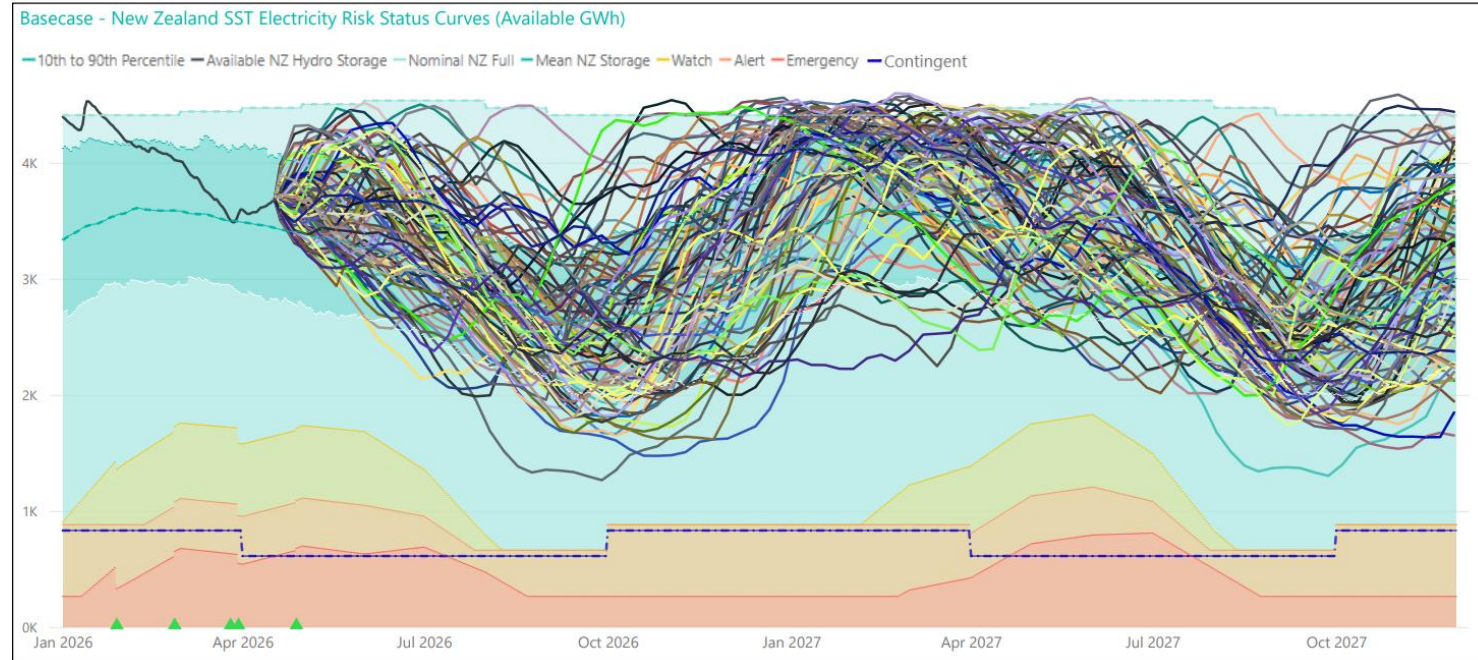
- Updated AGS gas storage – near full
- Gas reallocation from industrial to electricity generation
- Lower starting coal stockpile
- Updated outages and commissionings

Increases of up to:

- 56 GWh Watch (June 2027)
 - Due to Huntly Rankine outages
 - Lower starting coal stockpile
- 78 GWh Watch (March 2027)
 - Lower gas production forecasts

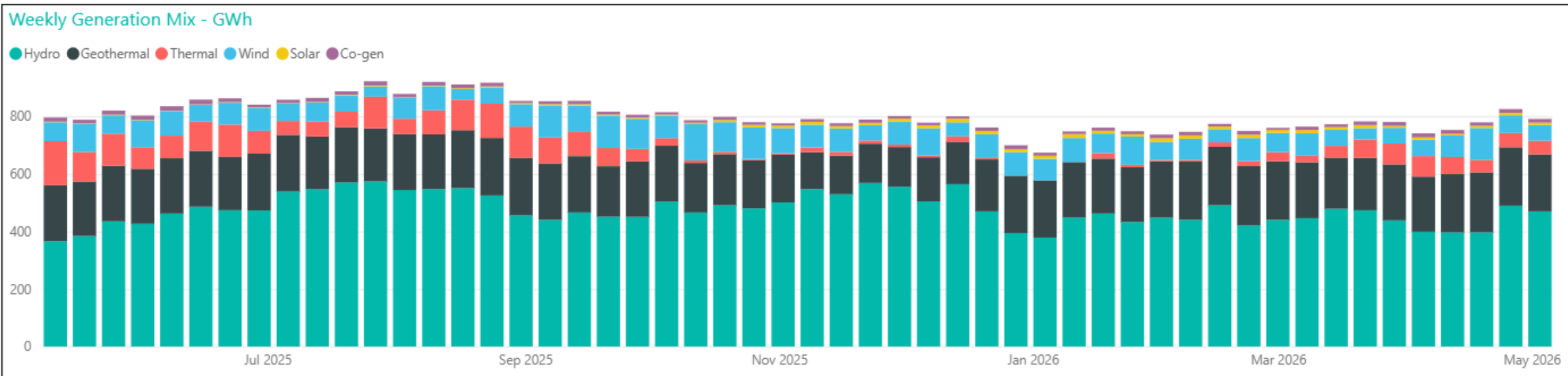
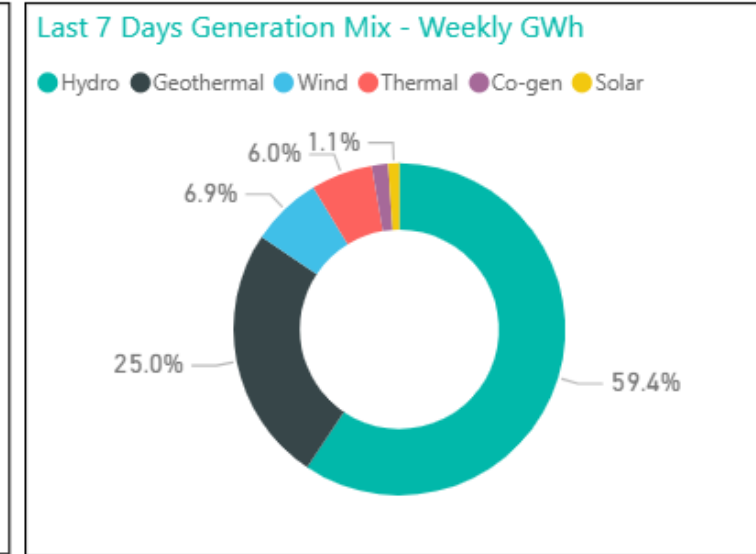
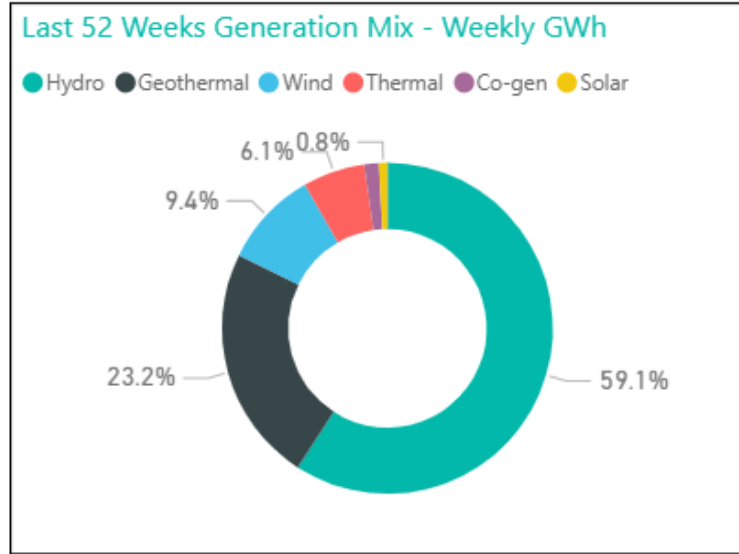
SSTs (94 total) crossing NZ:

	Watch	Alert	Emergency
2026	0	0	0
2027	0	0	0



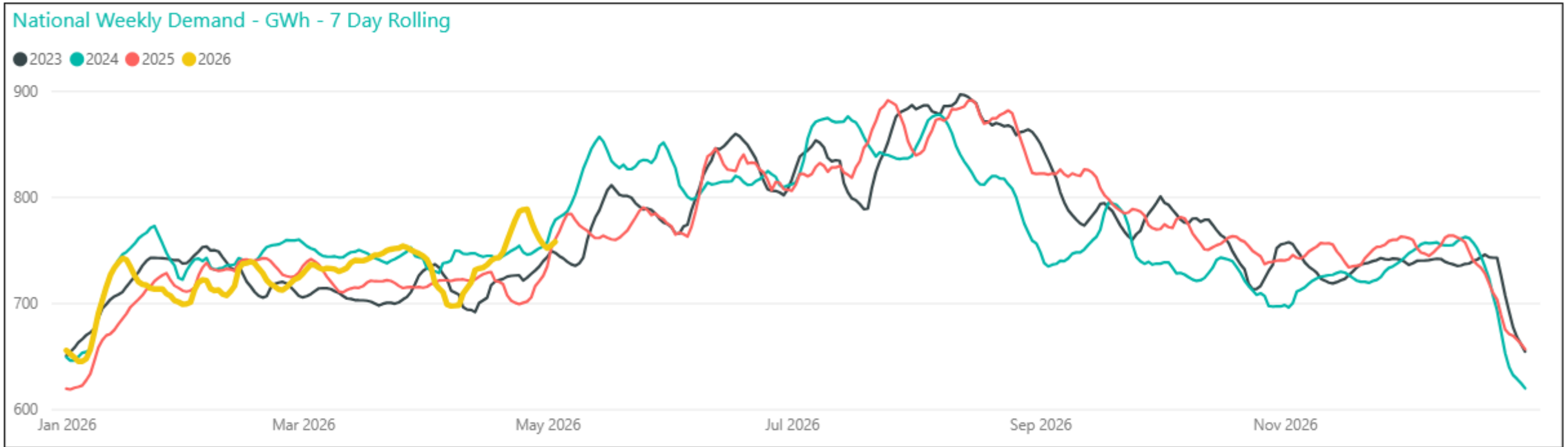
Generation mix

- Hydro generation at 59% of the mix – similar to yearly average
- Less than average wind generation at 7%
- Thermal generation at yearly average of 6%
- Geothermal remains above average at 25%



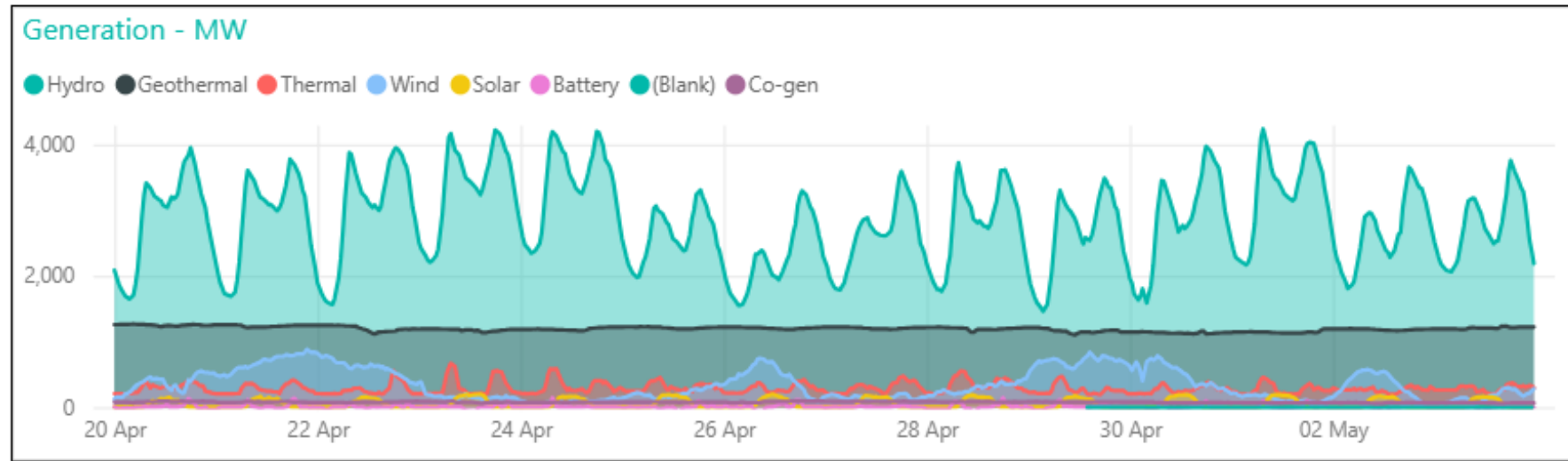
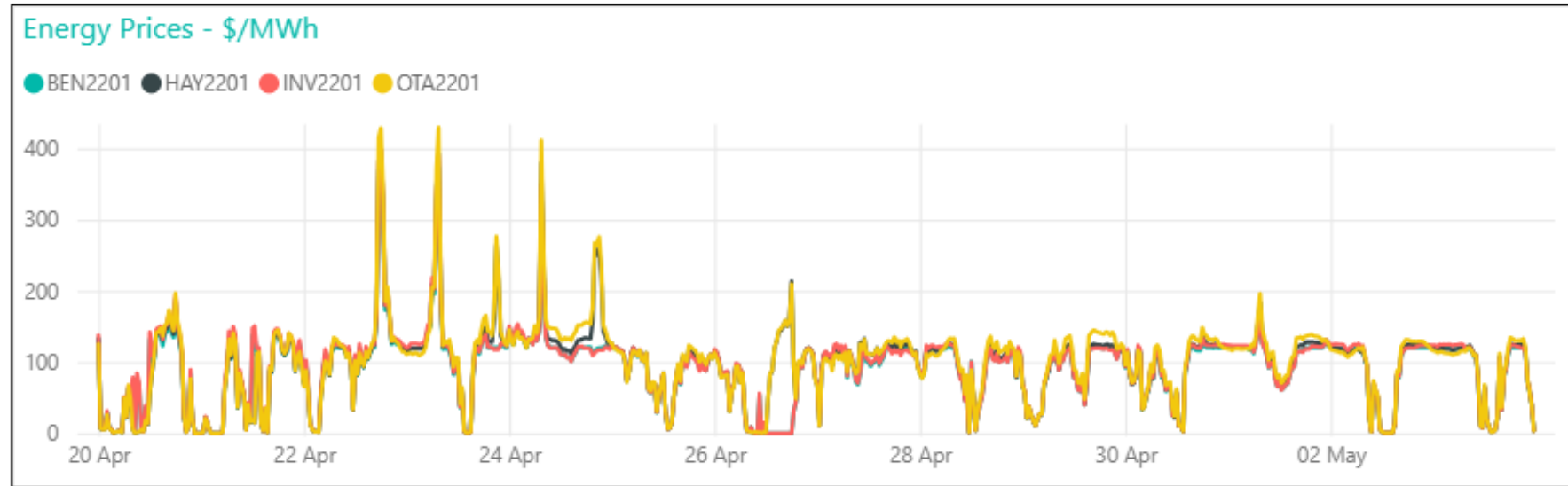
Demand

- Demand continues to increase with colder temperatures
- Last week saw some milder temperatures



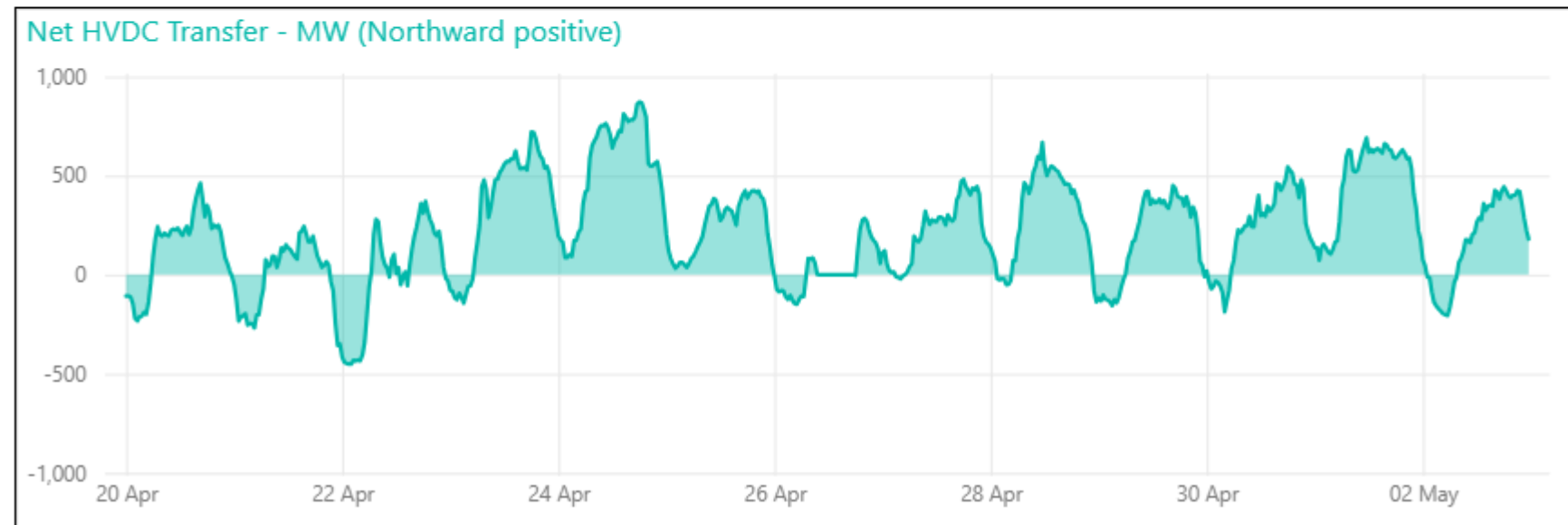
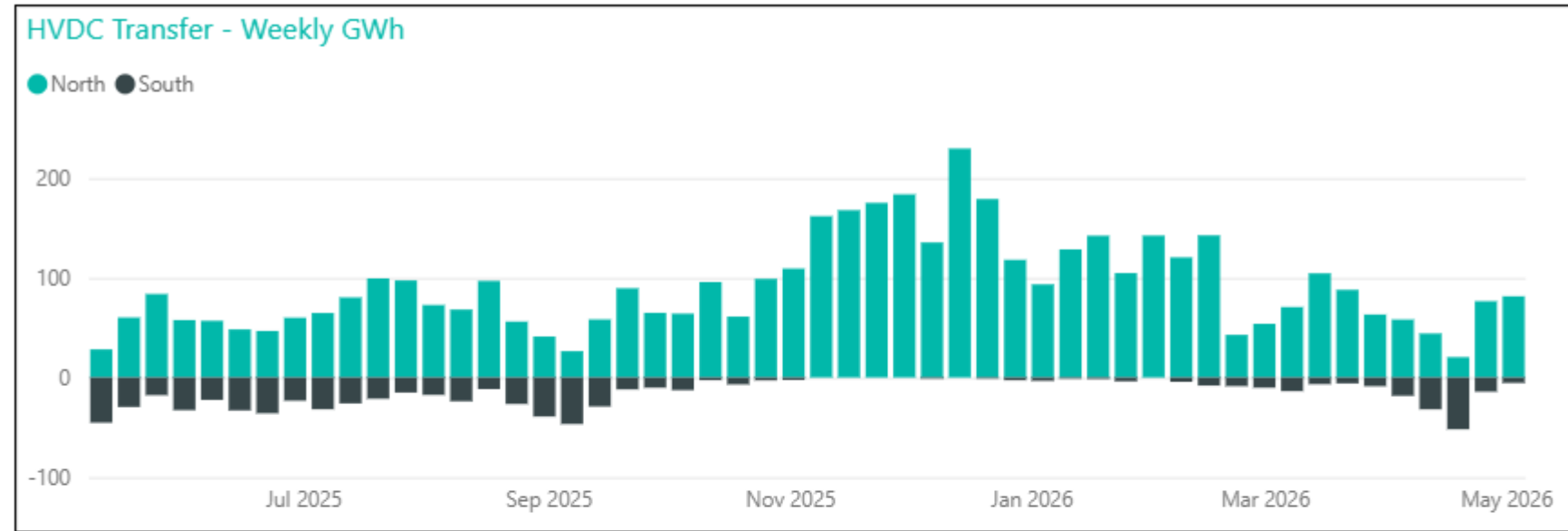
Pricing

- Average price last week at Ōtāhuhu has remained at \$101/MWh compared to the week prior
- Peak of \$429/MWh at Ōtāhuhu at 7:30 am on 23 April during a high demand and low wind period
- There were several periods of high demand and high price periods causing thermal units to be switched on
- This is something we continue to monitor as we move into winter



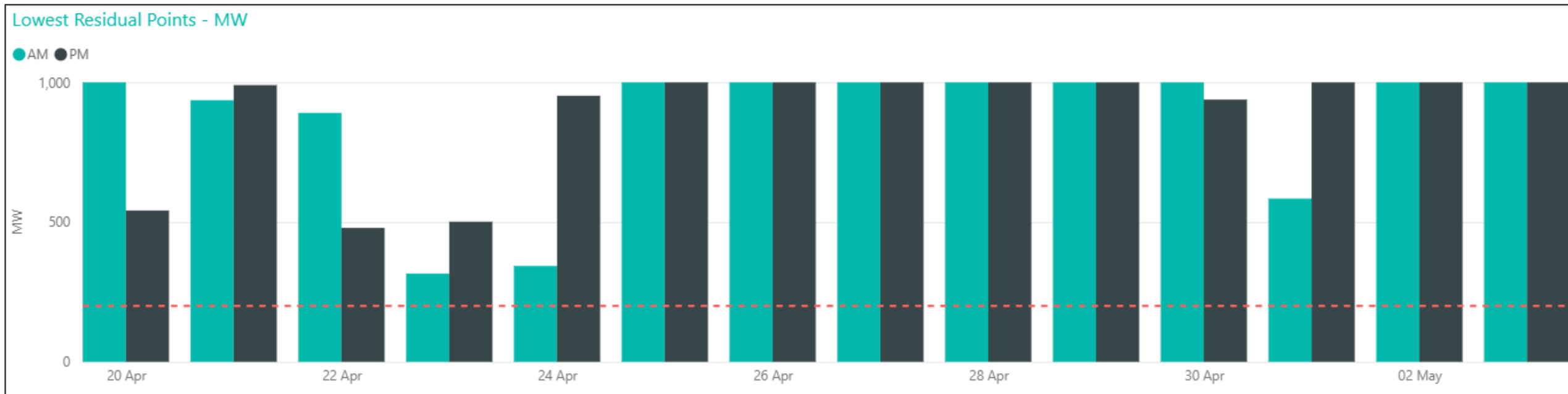
HVDC transfer

- HVDC transfer has been majority northward over the last couple weeks
- Improving hydro storage and tight demand periods switch on many hydro generators
- There was an HVDC bi-pole outage on the weekend of Sunday 26 April. This resulted in 0 HVDC flow for a brief period



Capacity residual margins

- Less than usual residual periods over the last couple of weeks
- Low wind and chilly peak periods



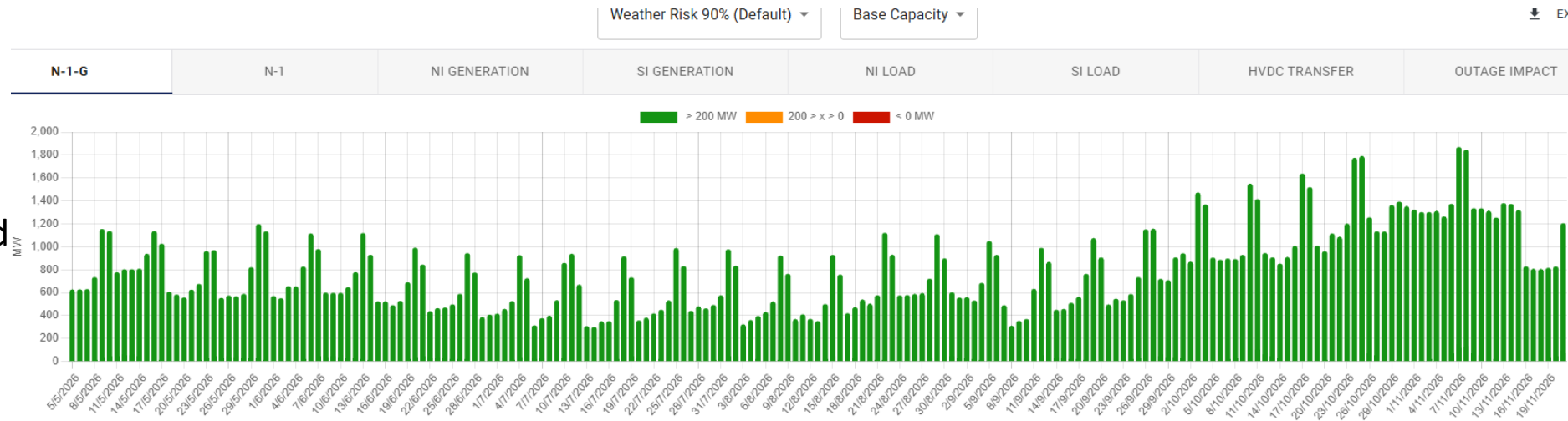


NZGB update

NZGB update: base capacity N-1-G

- N-1-G margins for 90th percentile load are currently showing healthy values
- Under the 99th 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

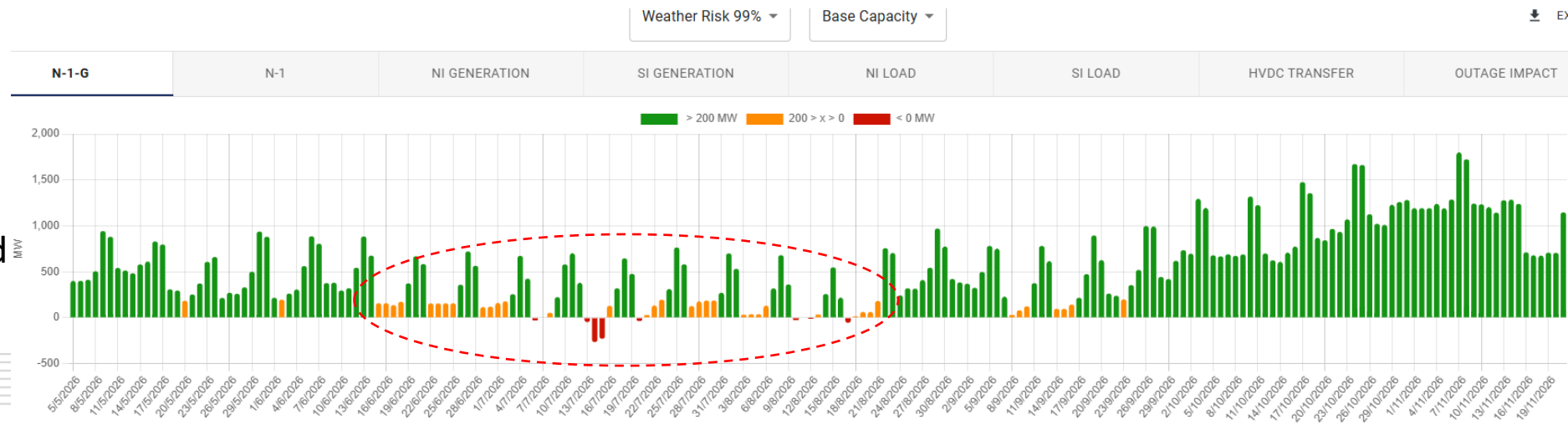
90th percentile load



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

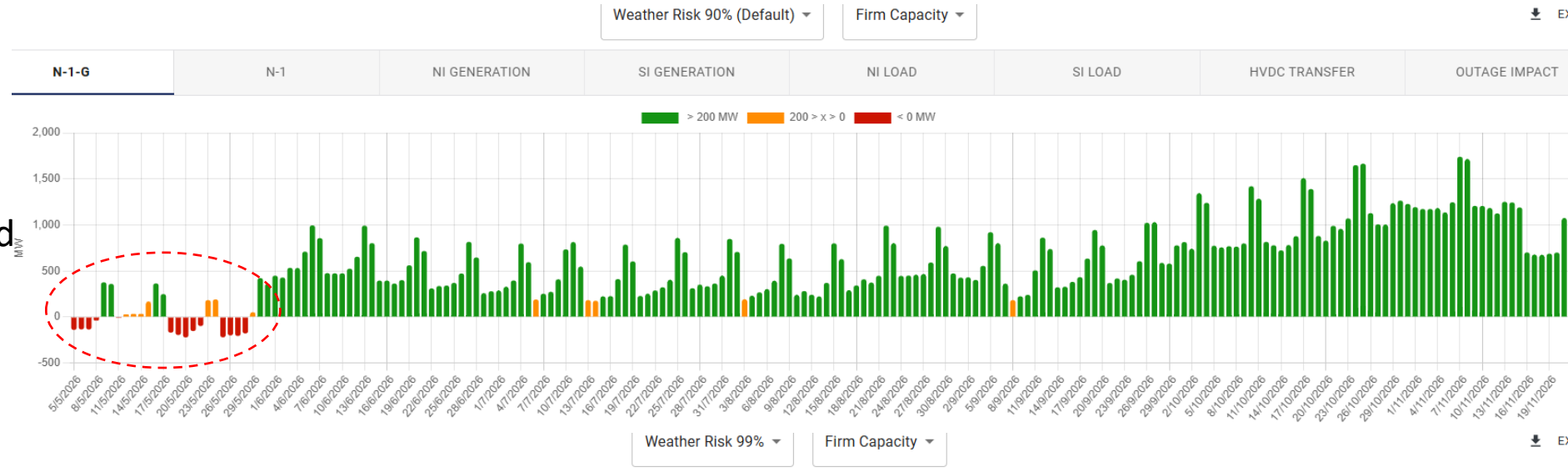
99th percentile load



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

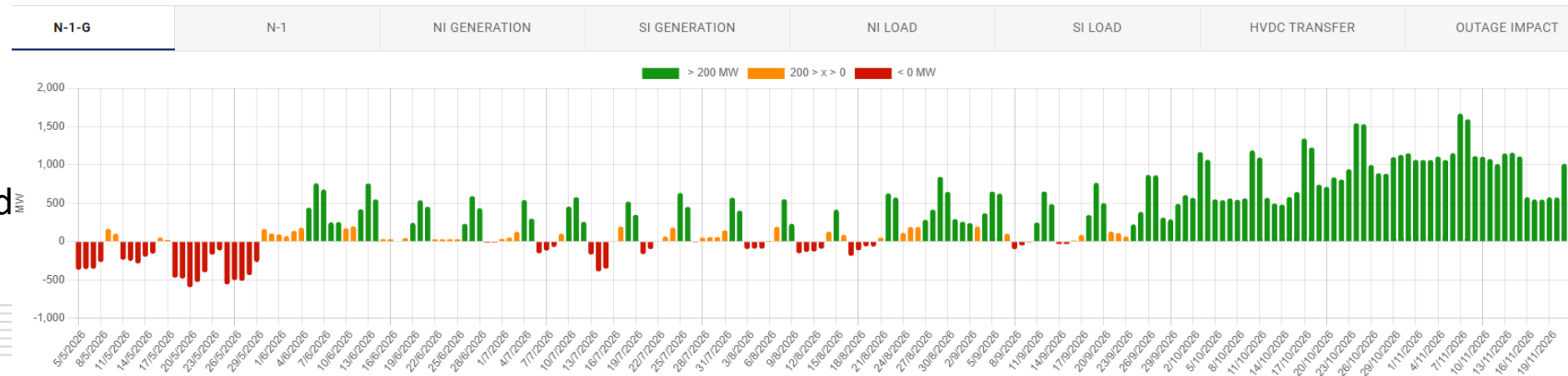
90th percentile load



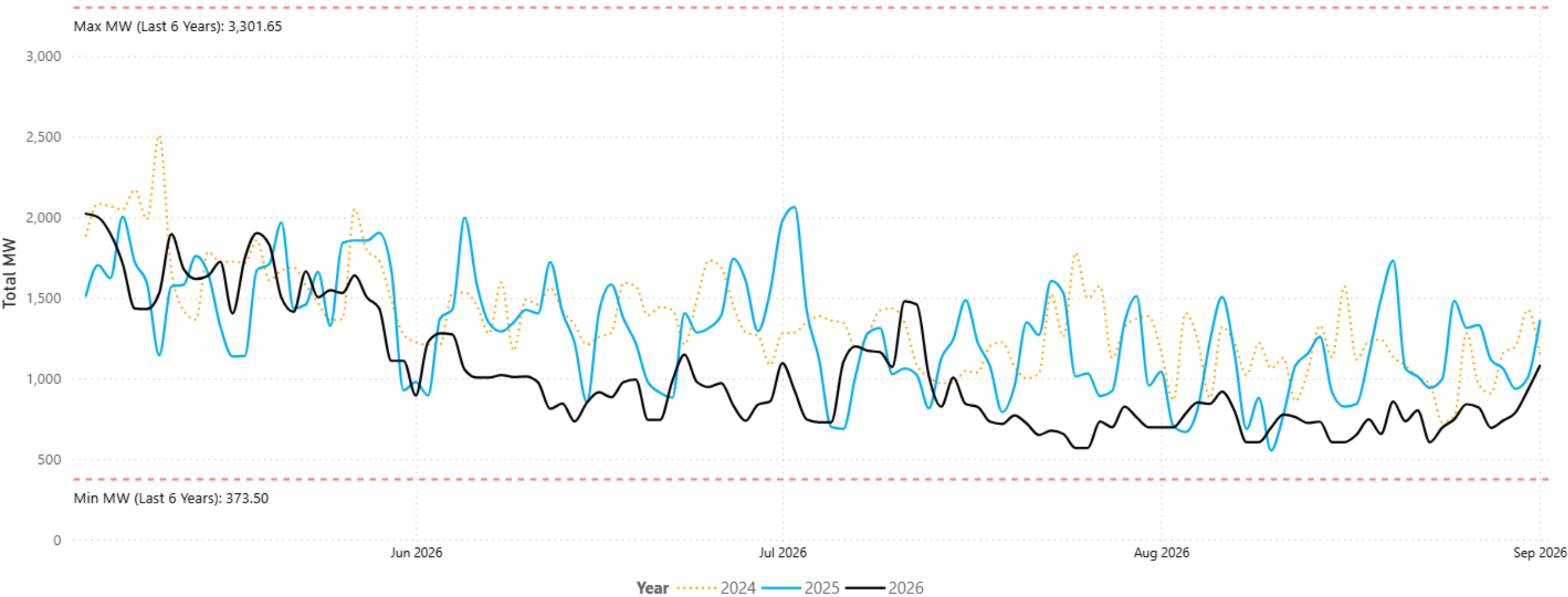
Firm capacity removes

- 1 HLY Rankine over winter months June to November, and 2 Rankines + HLY 5 over the remaining months
- It uses the lowest 10th percentile generation for wind (8% of total capacity)

99th percentile load



POCP Generation Outages



Mean Difference
(2025/2026)

-255.67 MW

Mean % Difference
(2025/2026)

-17.77%

Date

5/05/2026

1/09/2026

Year

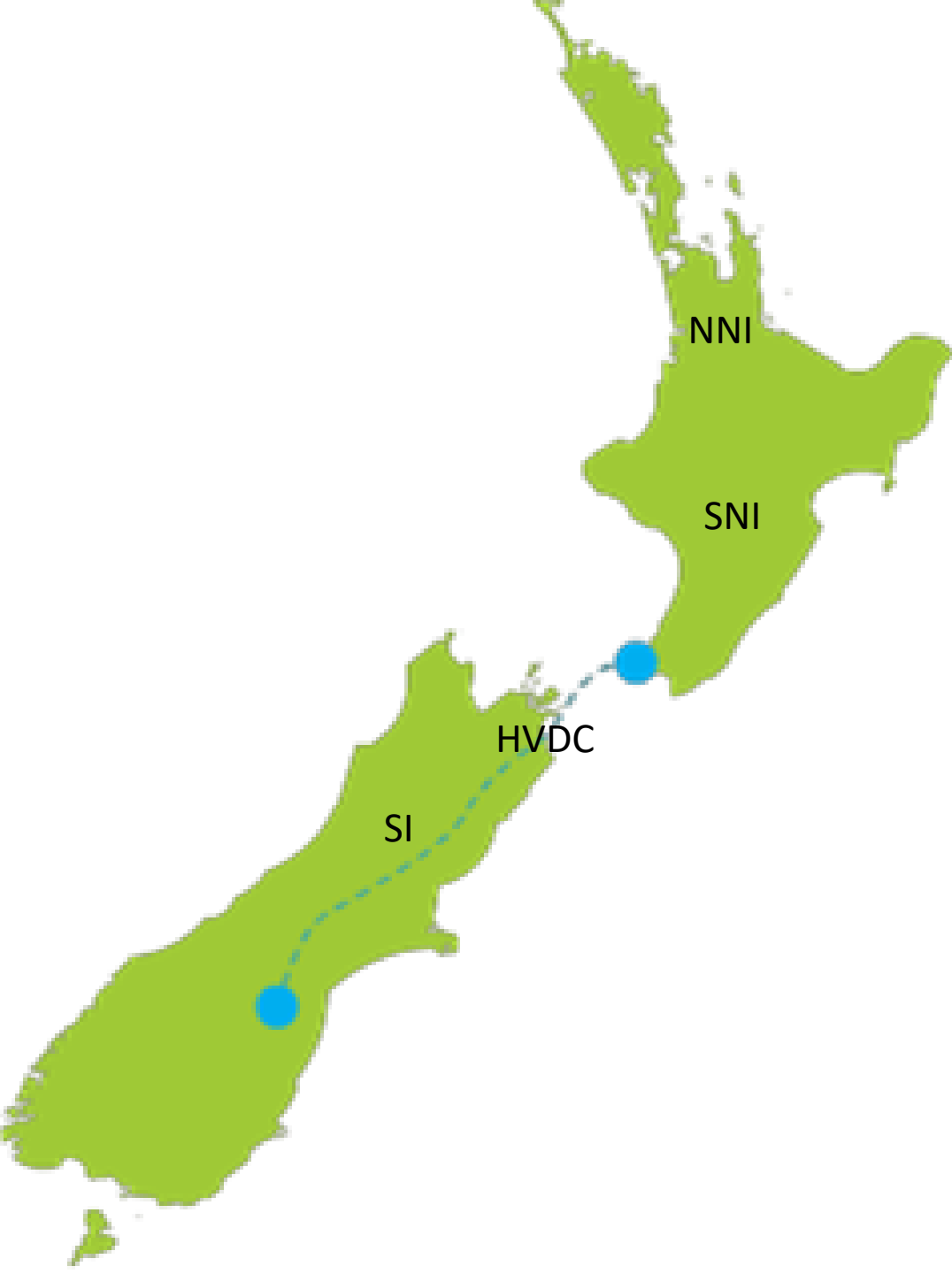
■ 2024

■ 2025

■ 2026



Outages next 4 weeks



Outages

- NNI outages
- SNI outages
- SI outages

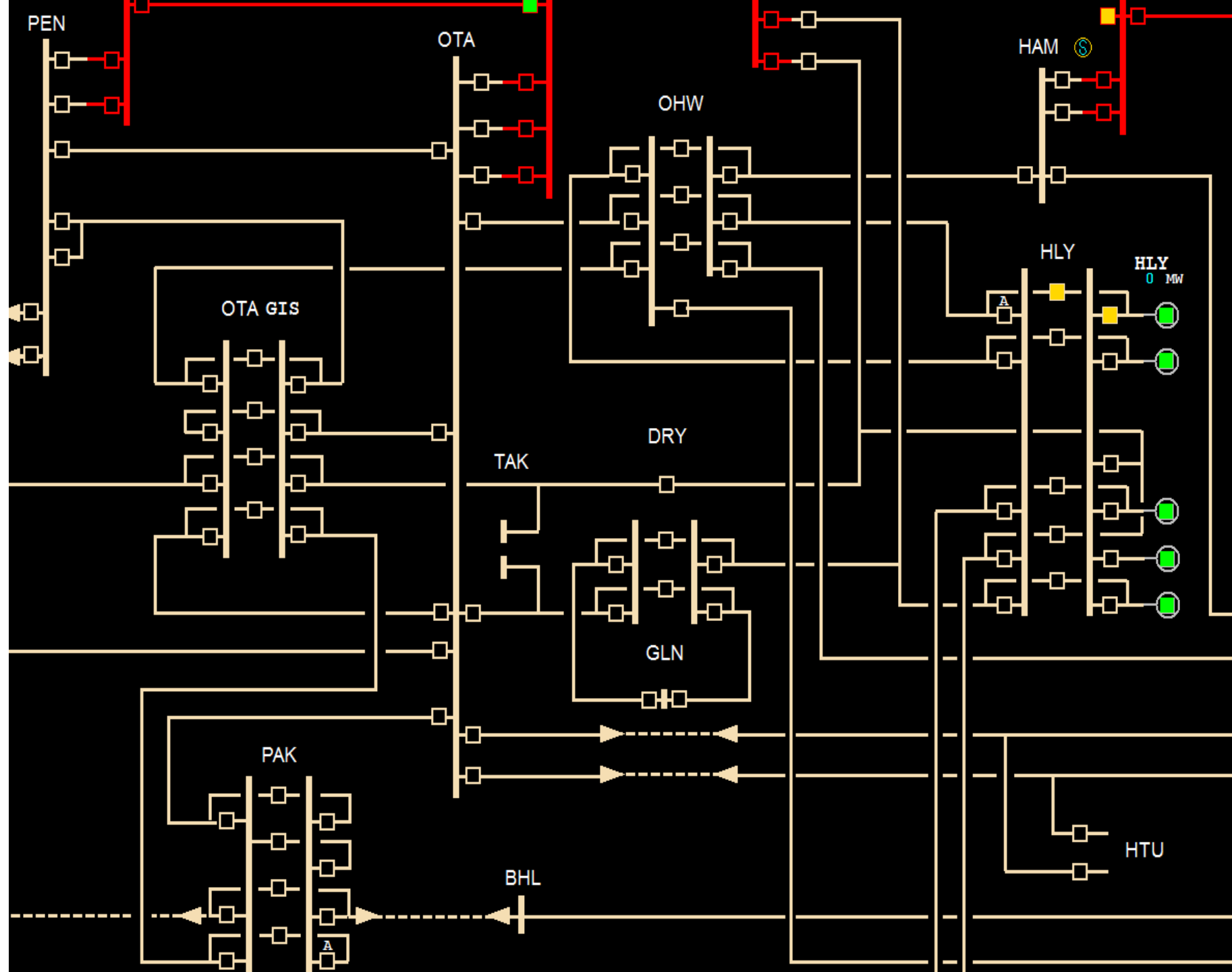
Asset owners

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



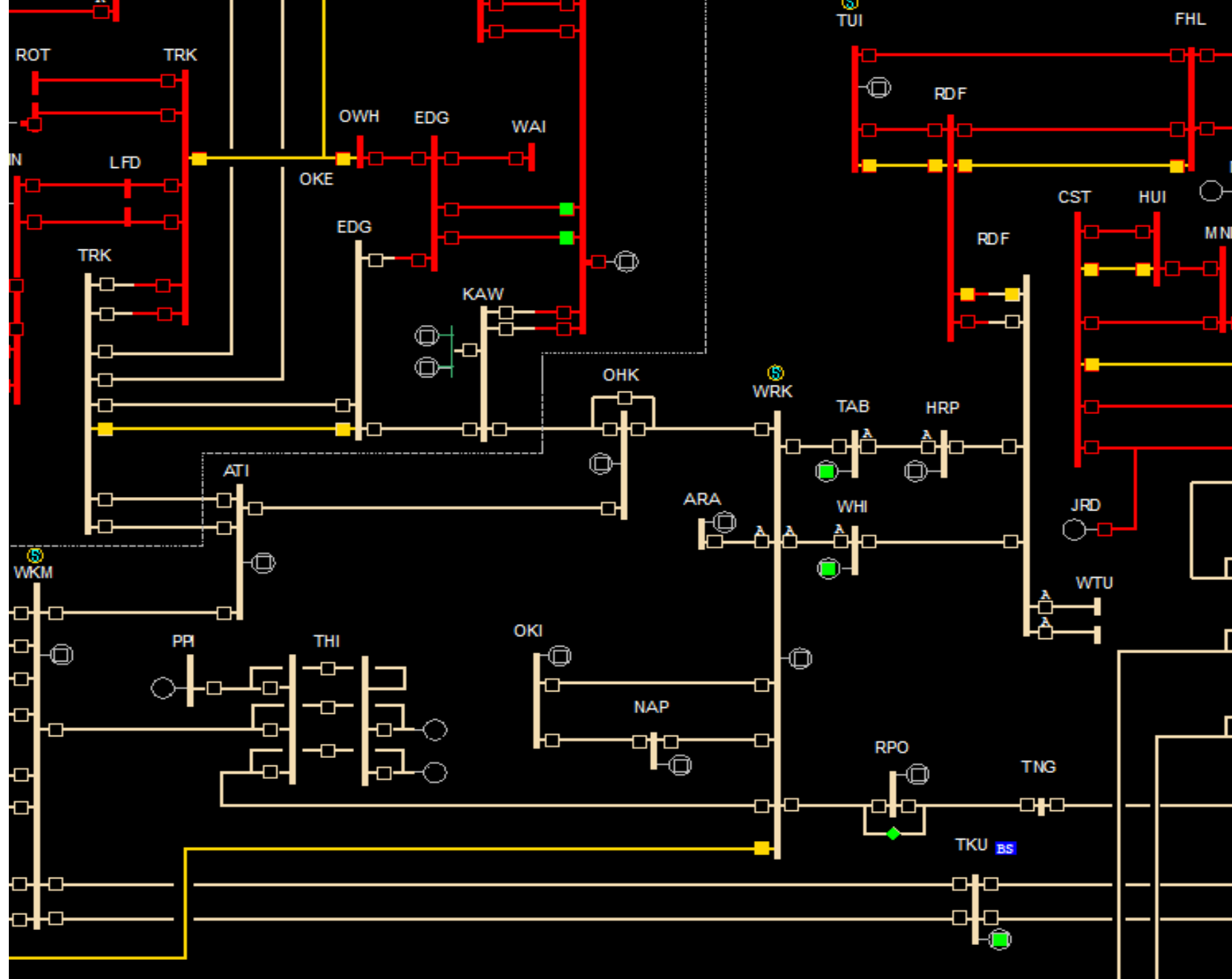
NNI Outages

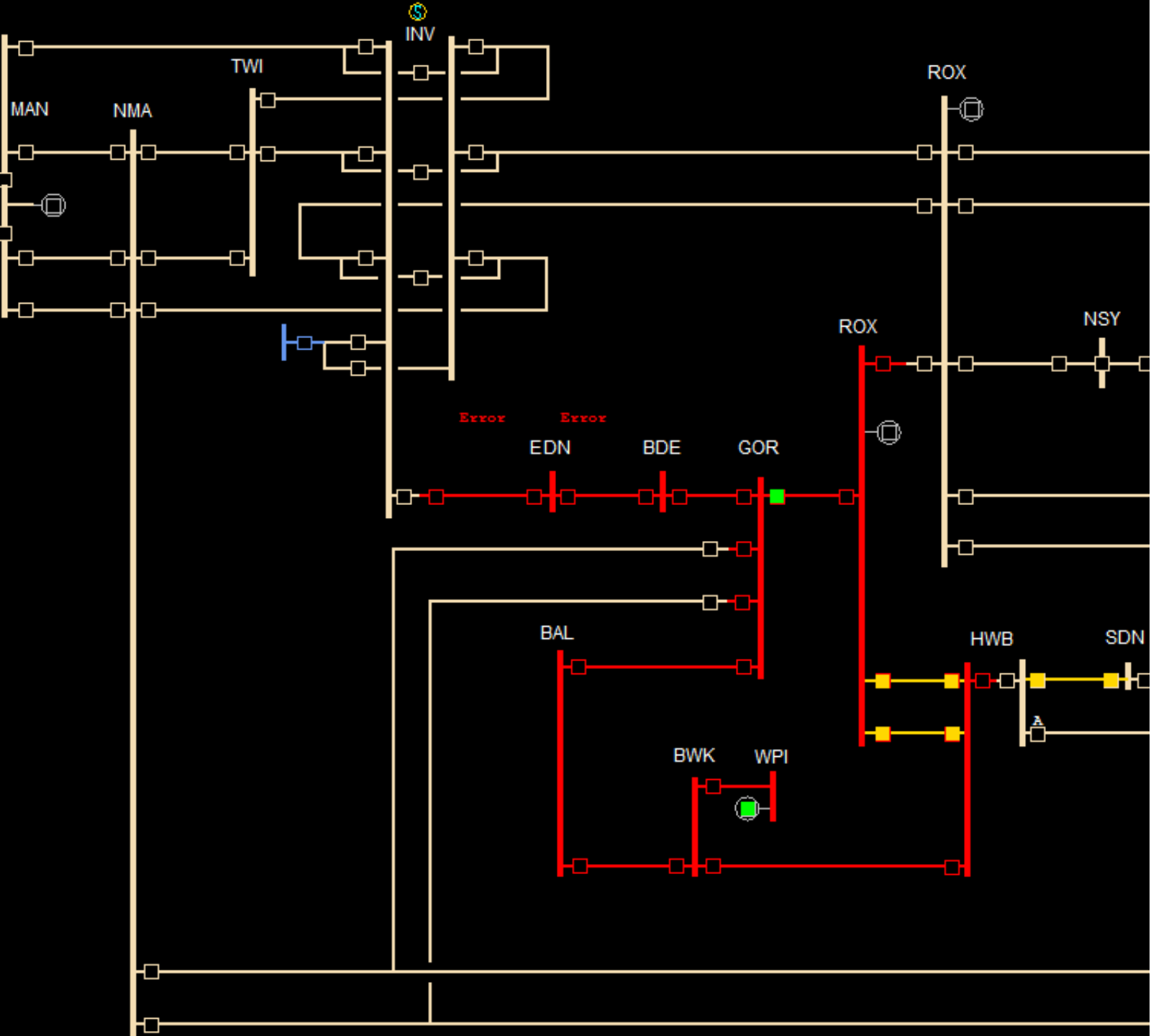
- Week of 11 May
 - EDG_T5
 - EDG_TRK_1
 - EDG_TRK_2
 - MNG_ROS_1
 - HAM Bus outages (weekend)
- Week of 18 May
 - EDG_T5
 - MNG_ROS_2
 - DRY_TAK_OTA_2
 - HAM Bus outages (weekend)
- Week of 25 May
 - EDG_T5
 - DRY_TAK_OTA_2
 - OHW_WKM_1
 - OTA_PEN_5
 - OTA_SWN_1
- Week of 1 June
 - EDG_T5
 - MNG_ROS_1
 - HOB_PEN_1



SNI Outages

- Week of 11 May
 - TKU_WKM_2
 - BPE_TKU_2
 - HAY_WIL_LTN_2
 - MGM_WDV_1
- Week of 18 May
 - TKU_WKM_1
 - BPE_TKU_1
 - RDF_TUI_1 & 2
- Week of 25 May
 - TKU_WKM_1
 - BPE_TKU_1
 - BRK_SFD_2
 - HAY_UHT_1
- Week of 1 June
 - HLY_SFD_1
 - FHL_TUI_1

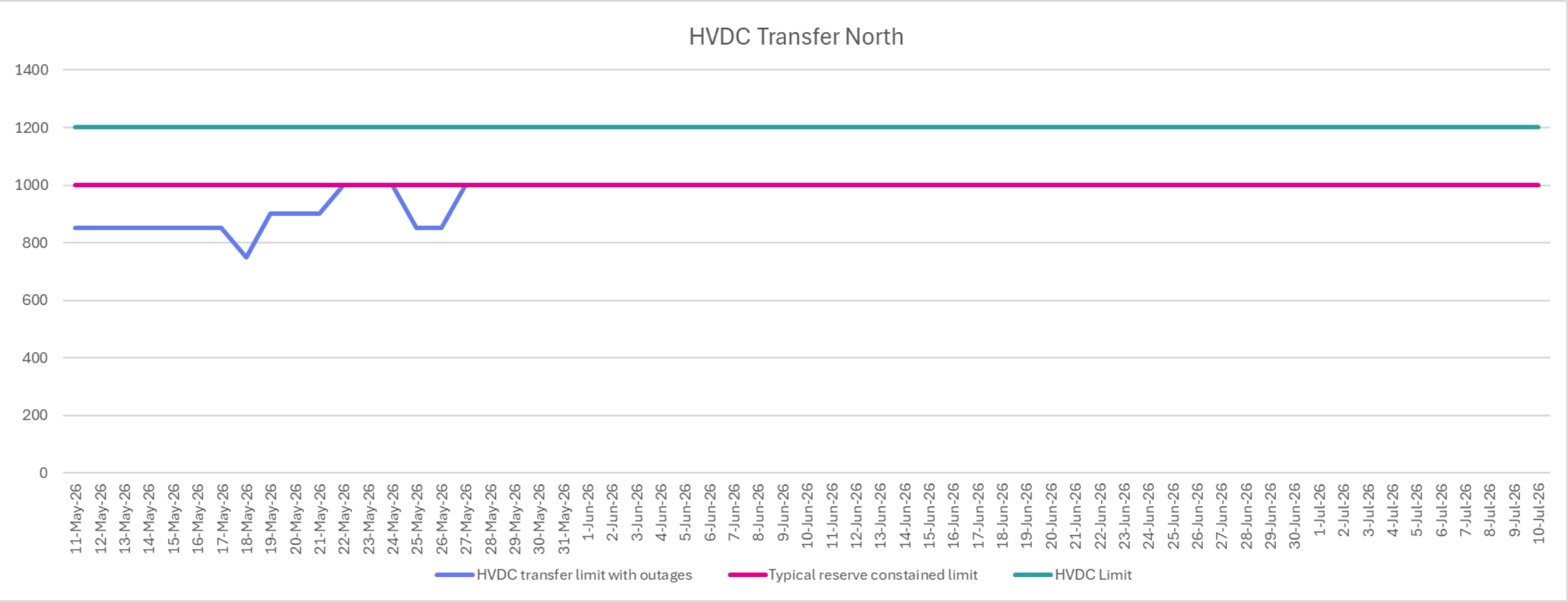




SI Outages

- Week of 11 May
 - INV_TWI_2
 - ISL_SBK_1, ASY_SBK_1, KAI_SBK_2
 - ISL_WPR_CUL_KIK_3
 - CML_FKN_1
- Week of 18 May
 - AVI_BEN_2
 - ISL_SBK_1, ASY_SBK_1, KAI_SBK_2
 - OAM_STU_BPD_WTK_2
- Week of 25 May
 - AVI_BEN_2
 - INV_ROX_1
 - ISL_TKB_1
 - HKK_KUM_1 then HKK_OTI_2
- Week of 1 June
 - HOR_KBY_ISL_2
 - ISL_WPR_CUL_KIK_2

HVDC North transfer limit





Operational update

HVDC Outages 26-27 April

- The first Pole 2 line restart happened at 18:27 on the 23rd April
- Pole 2 was changed to reduced voltage at 20:47, and remained in that mode for the remainder of that night
- An inspection of Pole 2 was organised for the next day
- A further 3 restarts occurred the next day with Pole 2 again being operated in reduced voltage overnight from 19:53 on the 24th
- The inspection identified faulty insulators on both Poles on one tower in the upper South Island and spares were organised to be sent from Bunnythorpe



HVDC Outages 26-27 April

- A 6 hour outage of each pole was required to replace the insulators. This was organised for Sunday/Monday when conditions looked most suitable for the outages to occur.
- Pole 2 was to be repaired first due to the re-occurring re-starts.
- When the service providers went to start work on Pole 2 Sunday they observed excessive corona and raised concerns about possible flashovers from the faulty Pole 3 insulators, due to be replaced Monday
- A Bipole outage was then initiated to allow the faulty Pole 2 insulators to be replaced
- The Pole 3 outage went ahead Monday to complete all the required insulator strain replacements



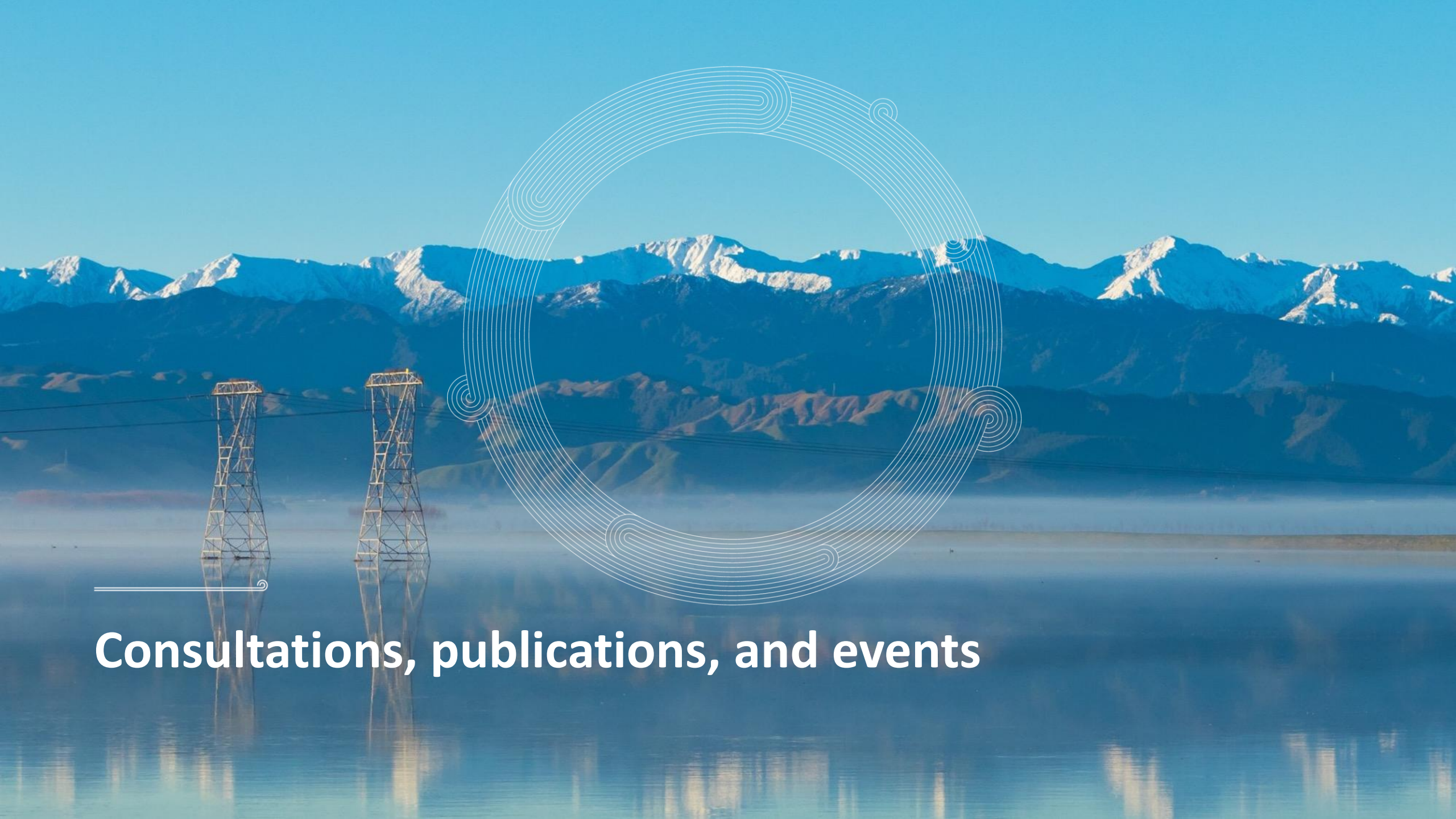


Emergency Reserve – industry co-design panel EOI

Emergency Reserve – industry co-design panel

- Emergency Reserve as a new Ancillary Service.
- Paid demand response during acute system stress events.
- Enabled by [EA Code amendment](#) effective 1 March 2026.
- System Operator to establish by the end 2026.
- We seek experts for an industry co-design panel:
 - workshops May-July 2026,
 - some occasional support/review as required.
- EOI published, Expressions of Interest from potential panel members by Wednesday 20 May.
- Information is on our [website](#) or if you have questions contact system.operator@transpower.co.nz.





Consultations, publications, and events

Consultations, publications, and events

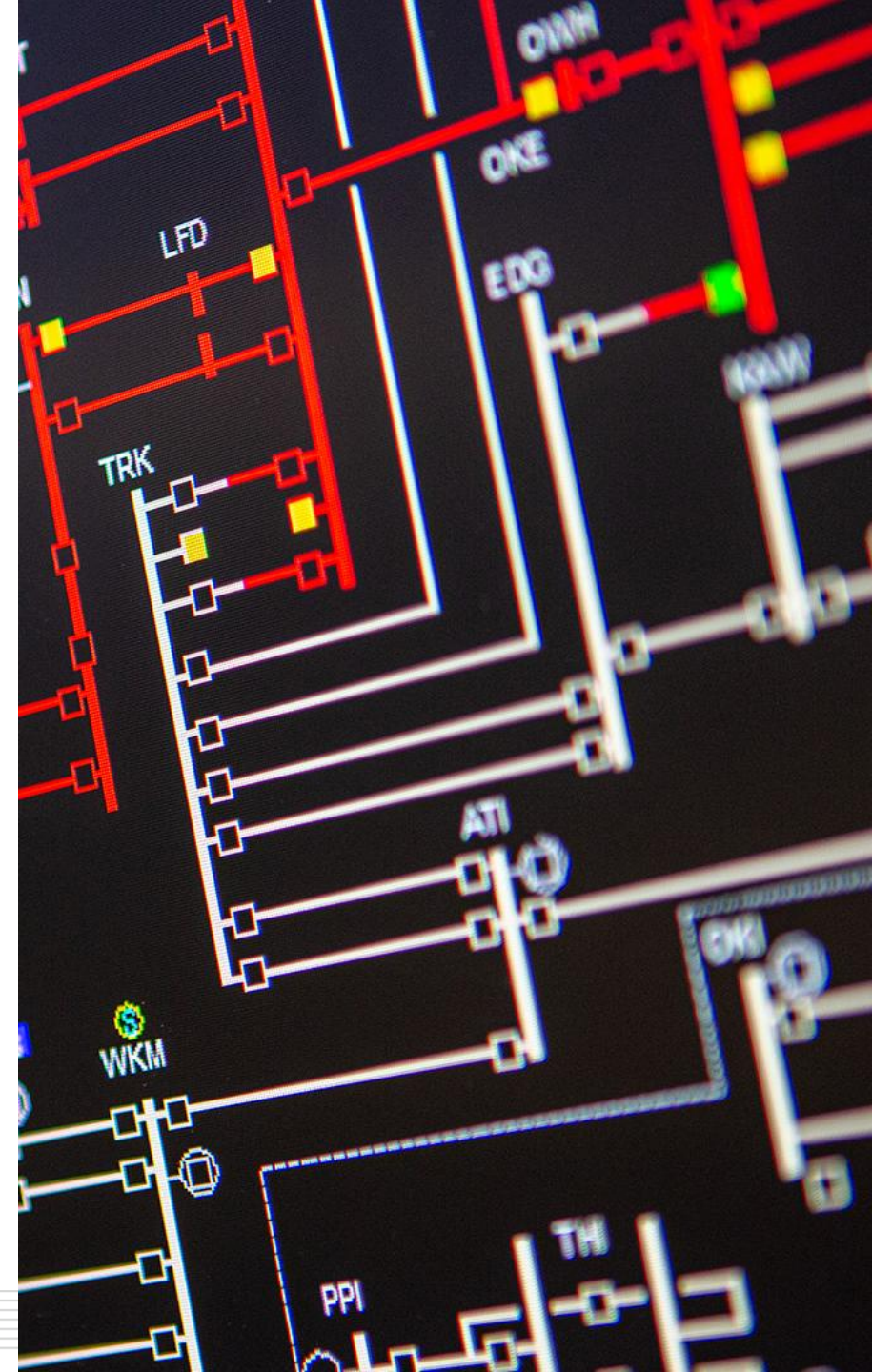
Our draft [SOSA 2026 consultation](#) is open for submissions until Thursday 14 May followed by a week for cross submissions.

[Emergency Reserve](#) industry co-design panel EOI documents are available on our website, and open for expressions of interest until Wednesday 20 May.

Last week we published the April [Energy Security Outlook](#) which is available on our website

[Industry Exercise 2026](#) pre-briefing webinar is on 12 May, with the exercise to take place 20-21 May. More information is available on our website.

System Operator Engineering Forum will be held on 1 July 2026, invites will be sent out this week. Contact us on system.operator@transpower.co.nz if you have any questions.



Questions / Pātai



Please raise your hand

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

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