TRANSPOWER

System Operator Industry Forum

19 May 2026

Today’s agenda

- Key messages
- Market update
- NZGB update
- Outage update – next four weeks
- Operational update
- Ohangai substation project update
- Consultations, publications and events
- Questions / Pātai

Key Messages

- Hydro storage remains above average. We still recommend prudent South Island hydro 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.
- Expressions of interest for our Emergency Reserve industry co-design panel close tomorrow.

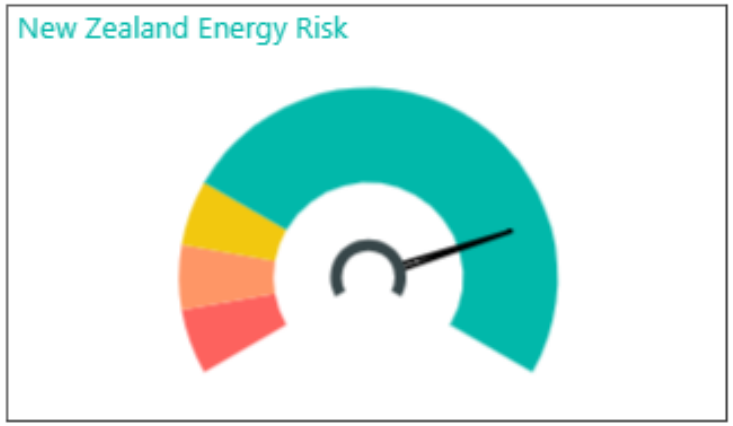
Market update

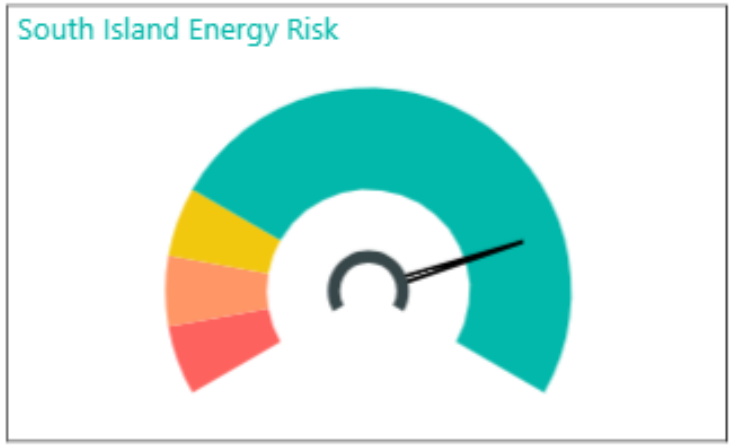
Energy: National hydro storage

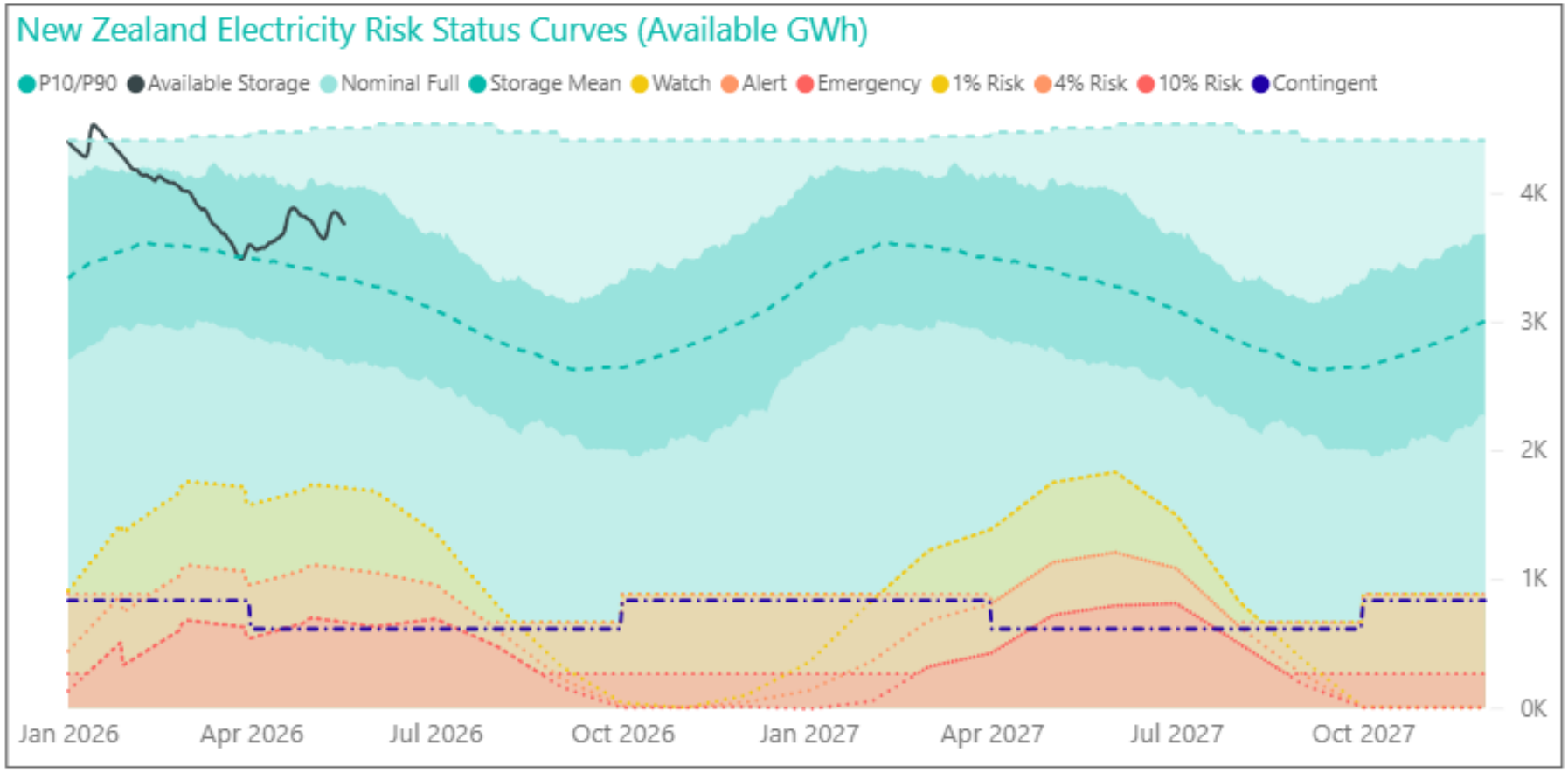
National hydro storage levels remain above average and have increased slightly in the last week with more than average inflows in SI

	Hydro storage level (% of mean ▲/▼)		
	New Zealand	South Island	North Island
Last forum	110%	102%	221%
Now	113% ▲	106% ▲	208% ▼

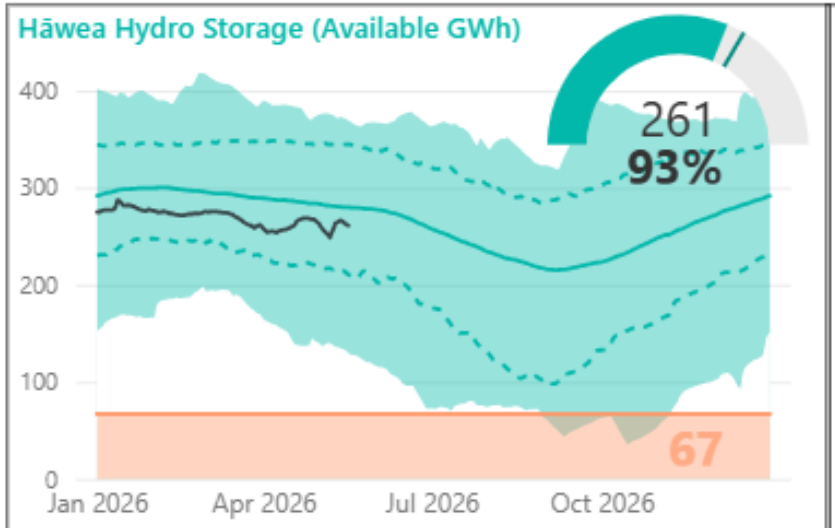
Note: these numbers include contingent storage, so they differ from those reported by NZX

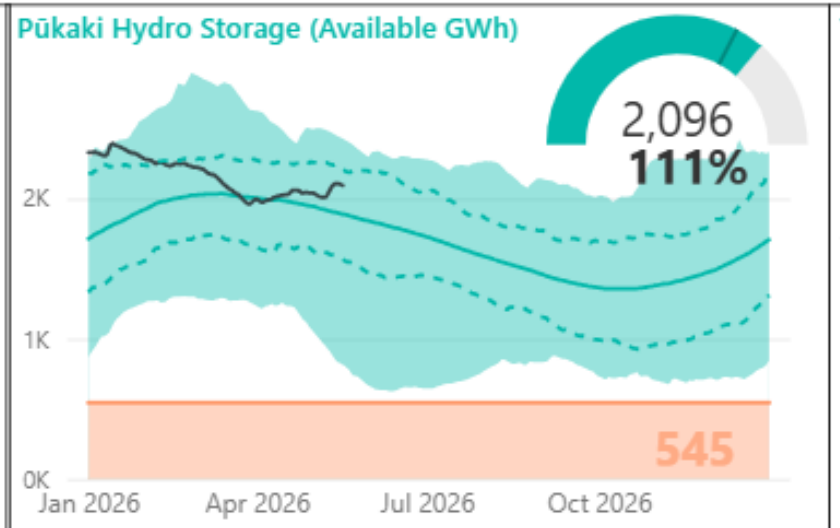


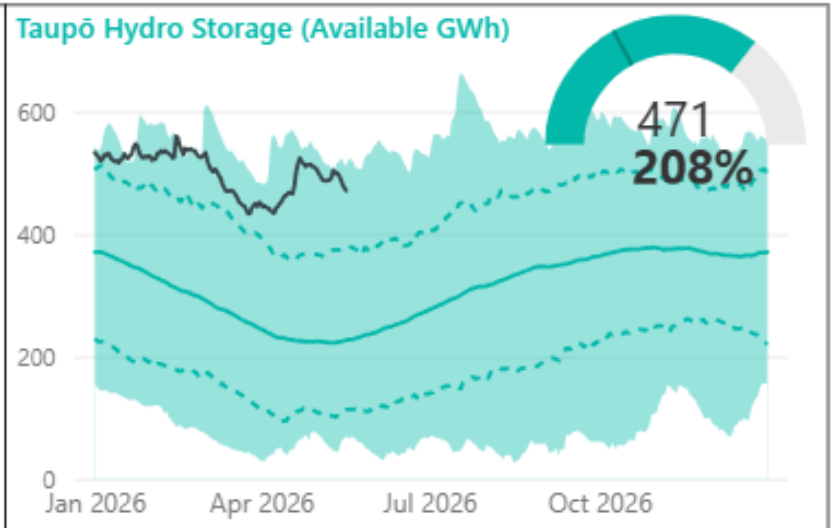


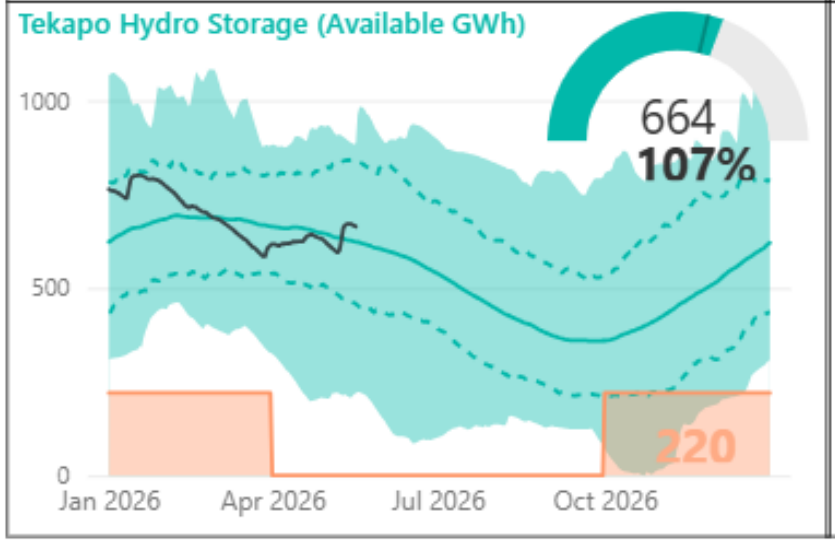


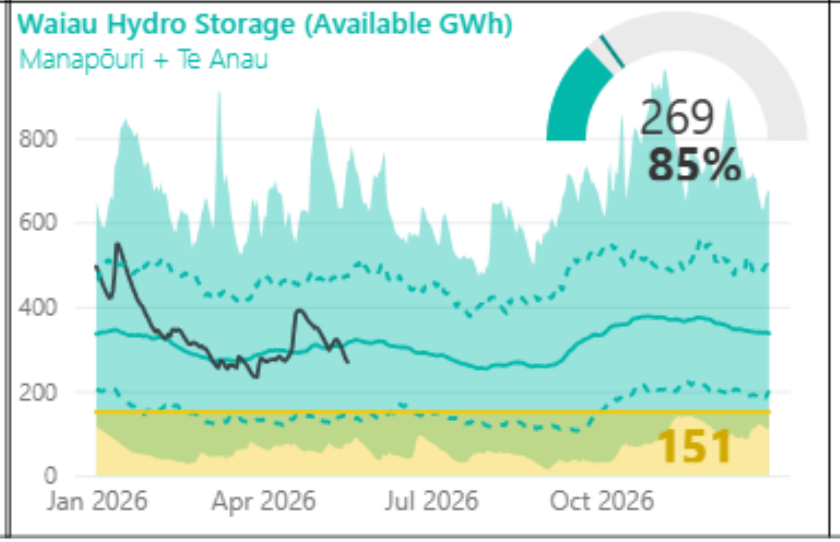
Hydro storage by catchment





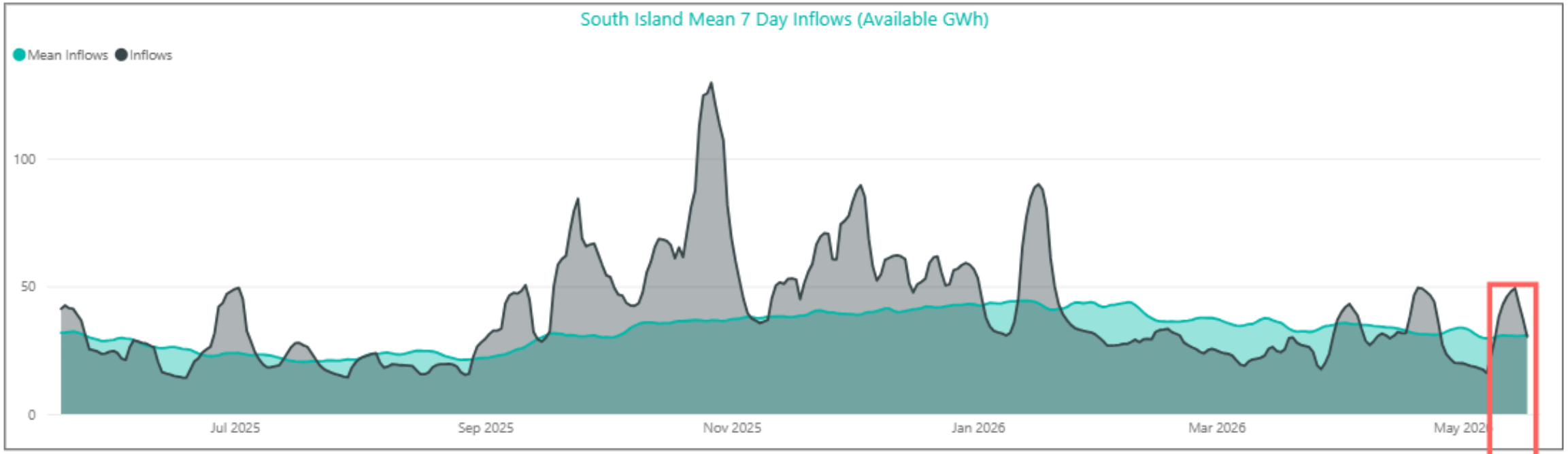


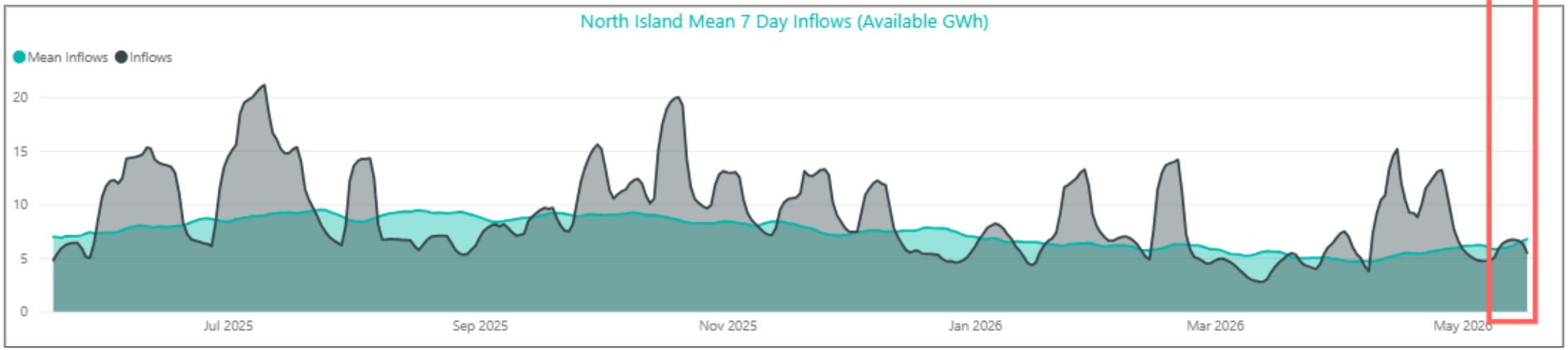




Lake	Storage (%)	Storage (GWh)	Historic Mean
Hāwea	93%	261.13	279.74
Manapōuri	110%	120.48	109.72
New Zealand	113%	3,760.40	3,332.99
Pūkaki	111%	2,095.94	1,889.50
South Island	106%	3,289.78	3,106.44
Taupō	208%	470.62	226.54
Te Anau	72%	148.45	204.97
Tekapo	107%	663.78	622.52

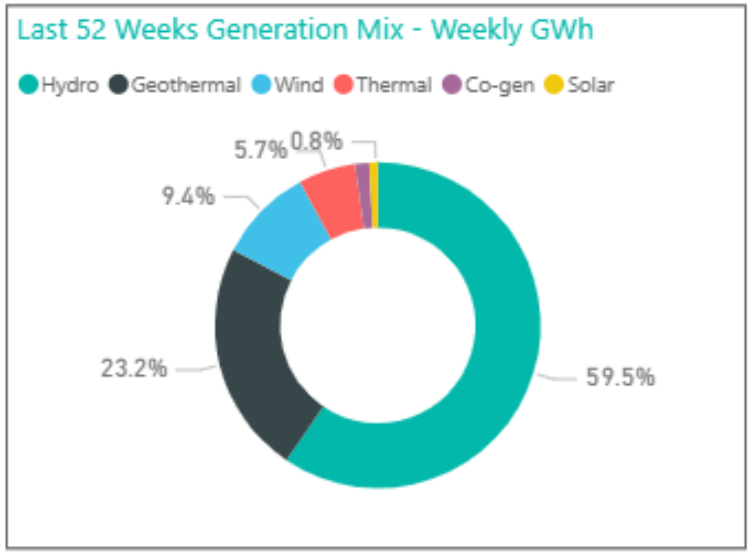
Hydro inflows

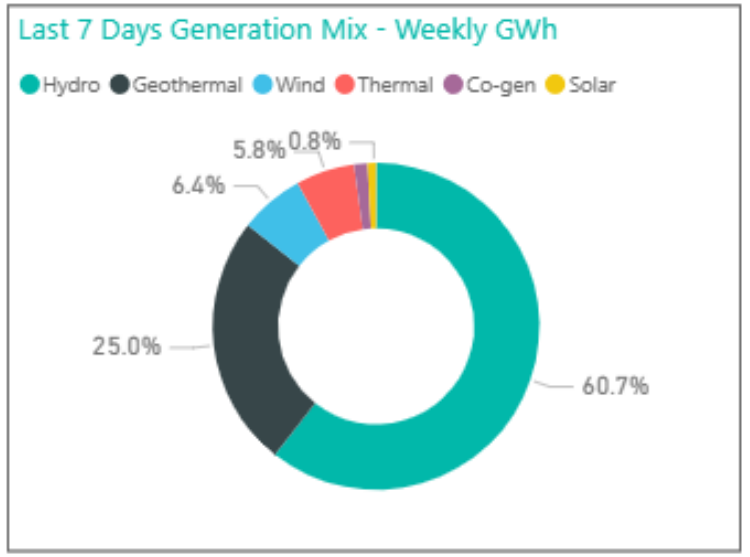


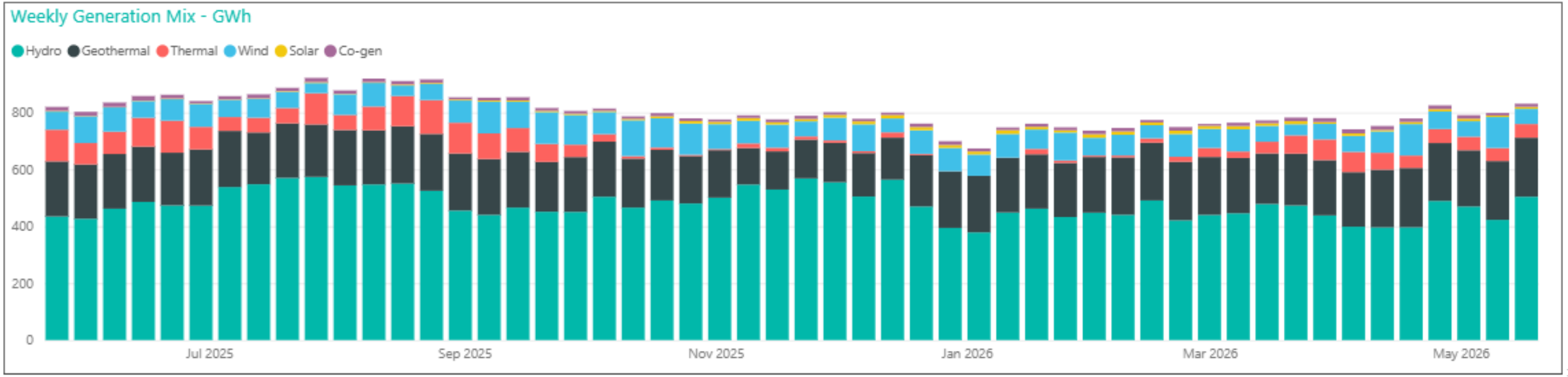


Generation mix

- Hydro generation at 60% of the mix – similar to yearly average
- Less than average wind generation at 6.4%
- Thermal generation at yearly average of 6%
- Geothermal remains above average at 25%

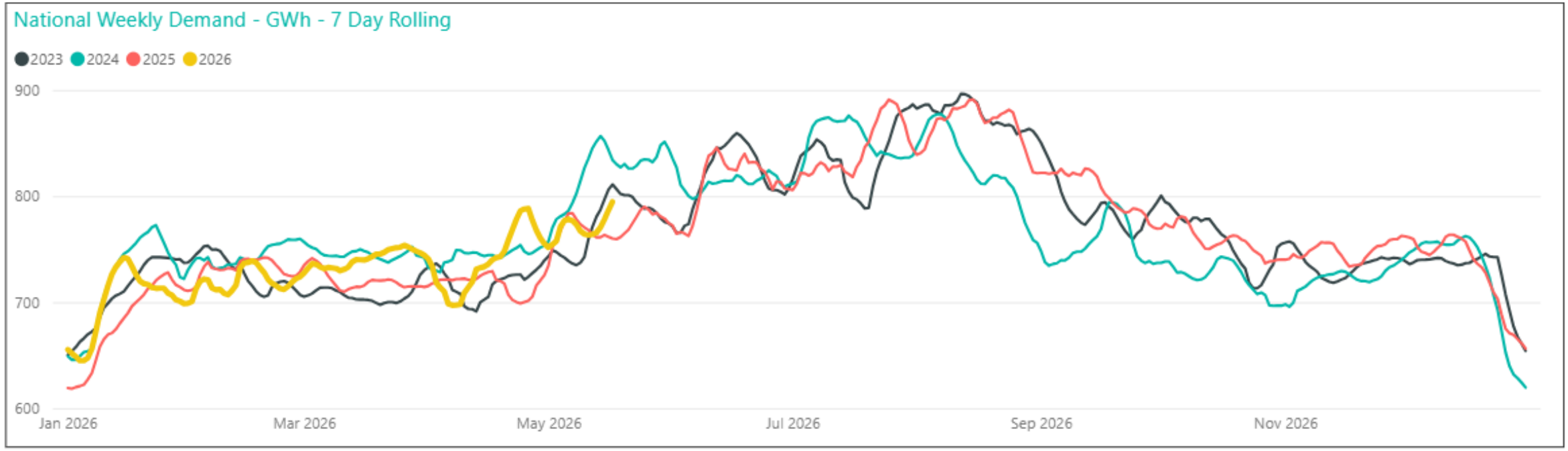






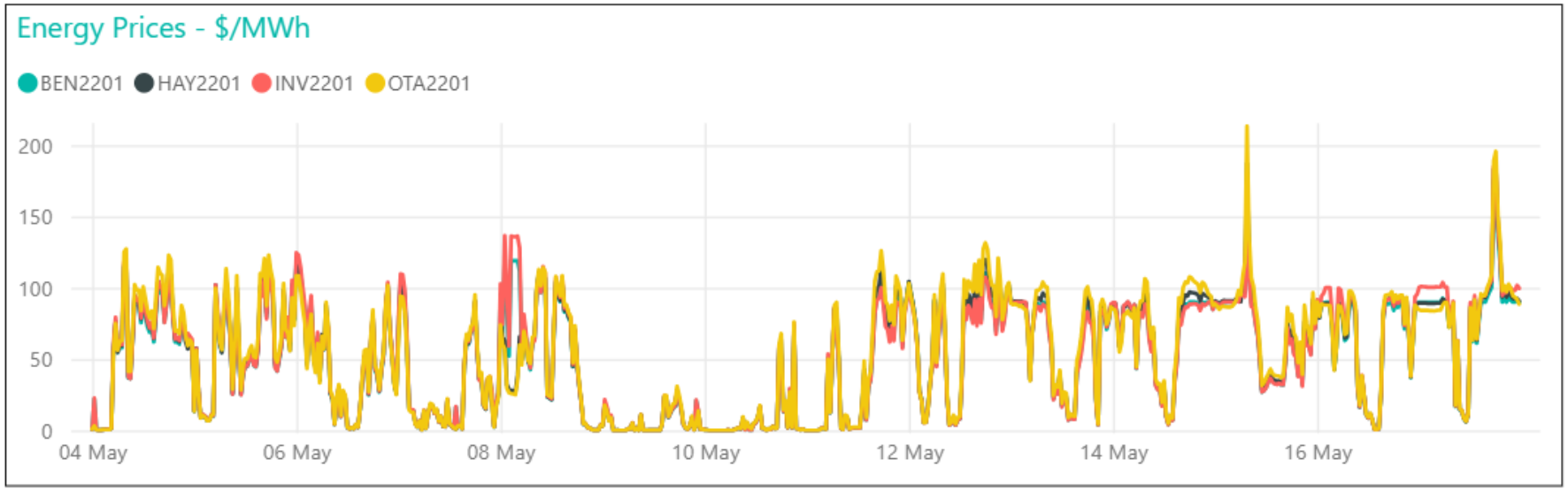
Demand

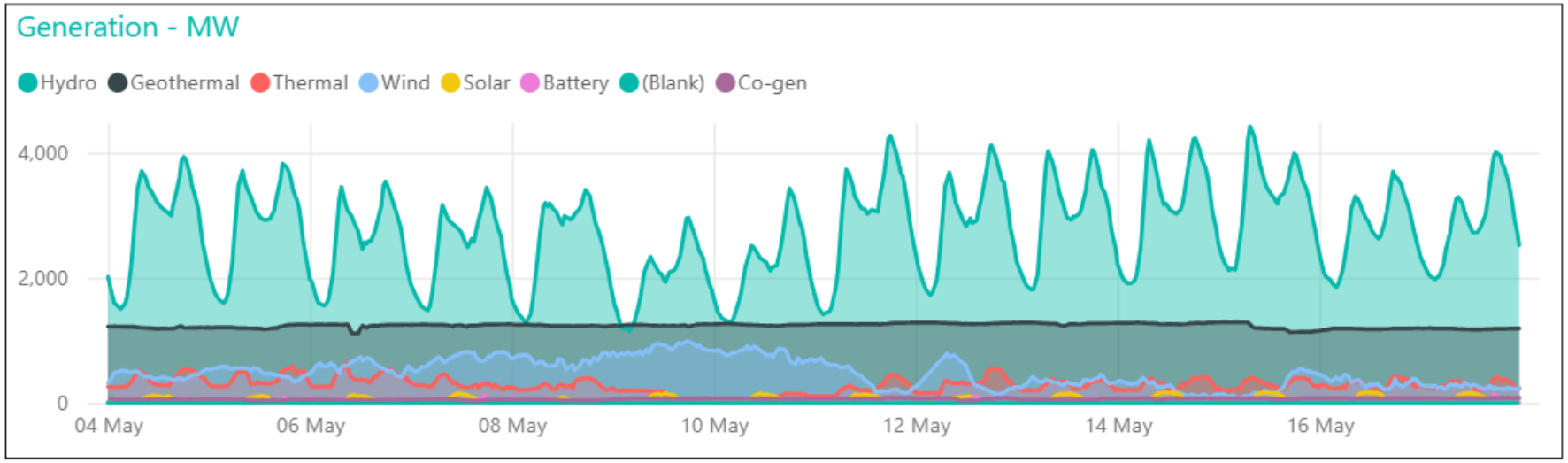
- Demand continues to increase with colder temperatures
- Last week saw some milder evening peaks but higher morning peaks compared to seasonal



Pricing

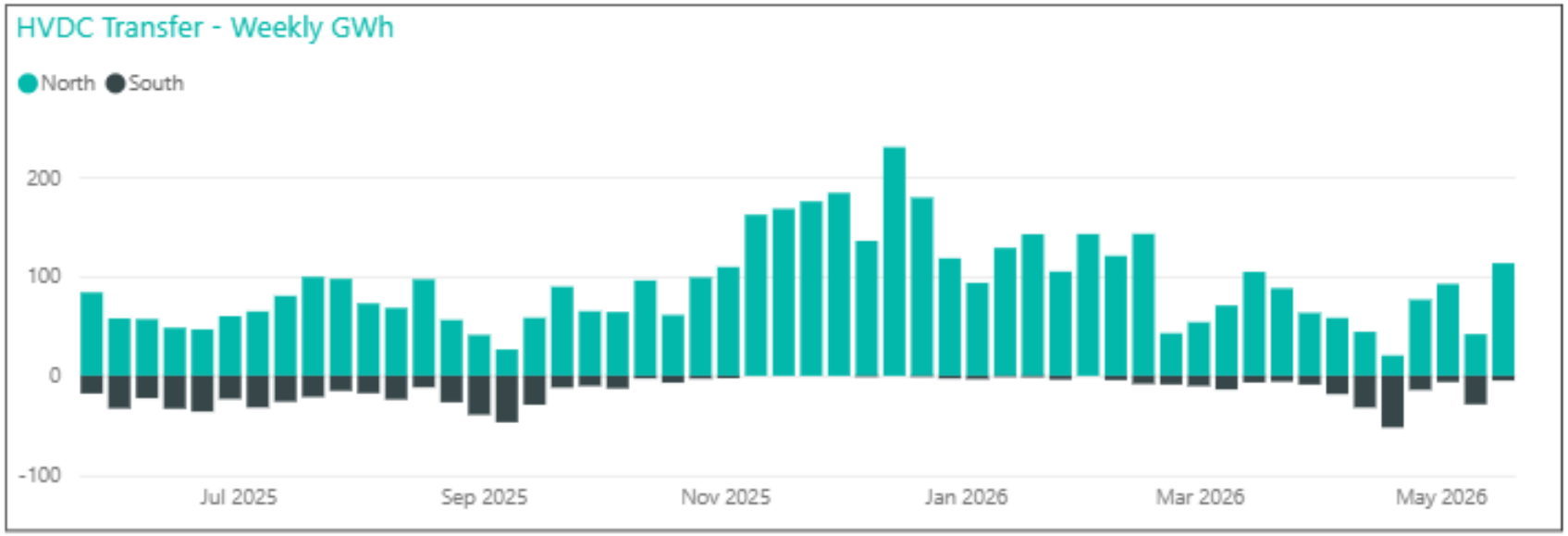
- Average price last week at Ōtāhuhu has increased to $69/MWh from $38/MWh the week prior
- Peak of $213/MWh at Ōtāhuhu at 7:30 am on 15 May during a high demand and low wind period
- There were several periods of high demand and high price periods causing thermal units to be switched on
- This is something we continue to monitor as we move into winter

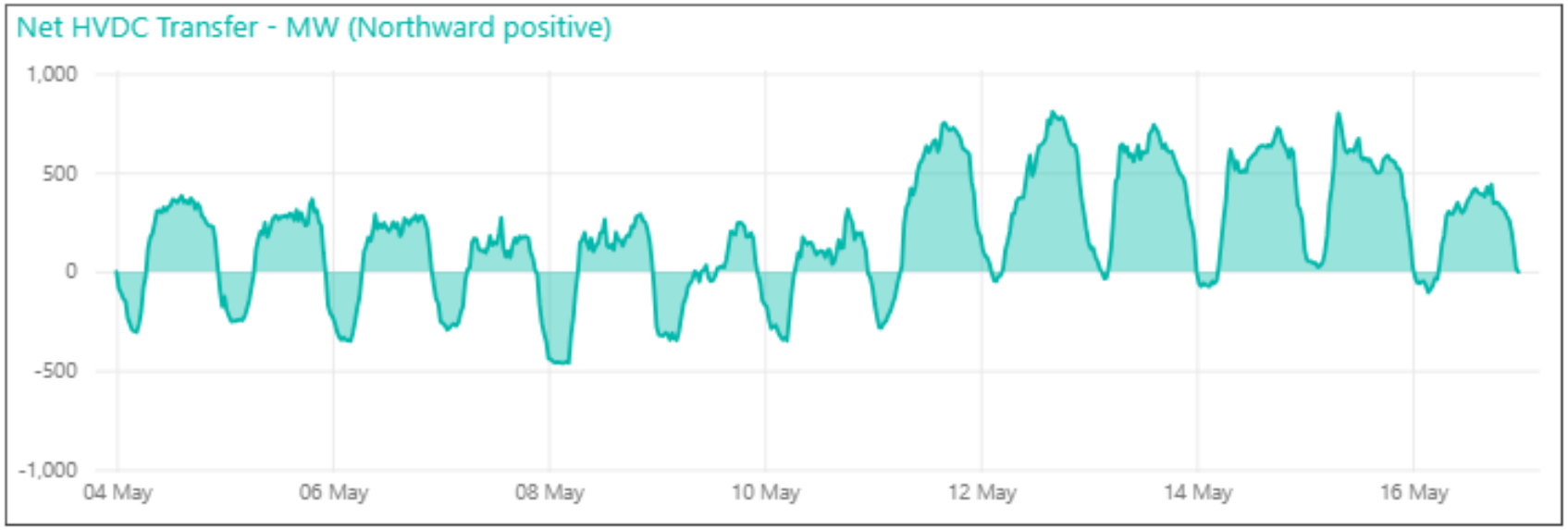




HVDC transfer

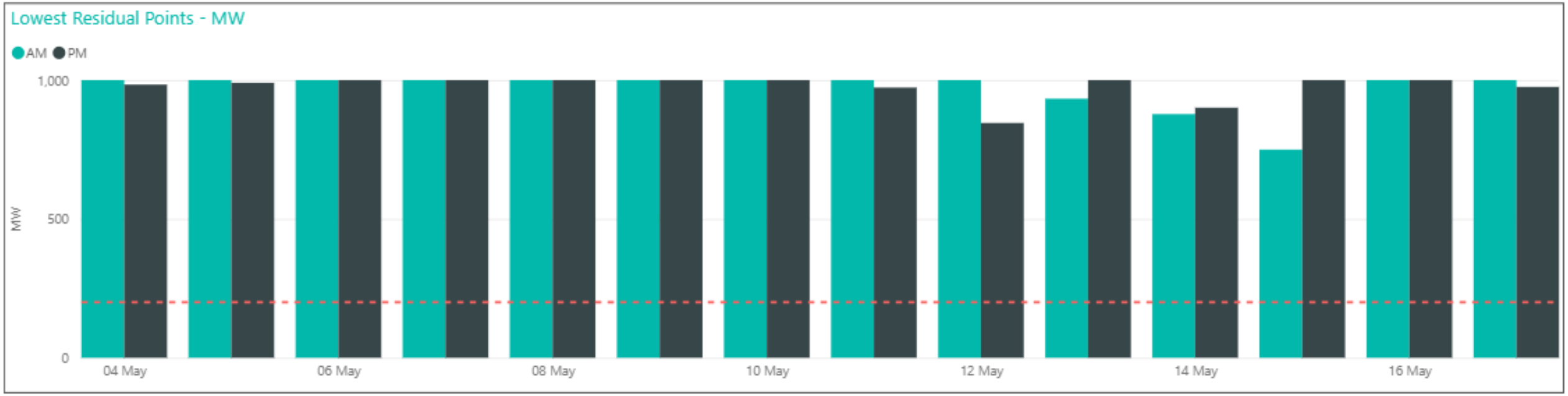
- HVDC transfer has been majority northward over the last week
- Improving hydro storage and tight demand periods switch on many hydro generators
- There was an HVDC synchronous condenser tripping on Friday 8 May 1:00 am. This resulted in reduced HVDC southward flow for a brief period





Capacity residual margins

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

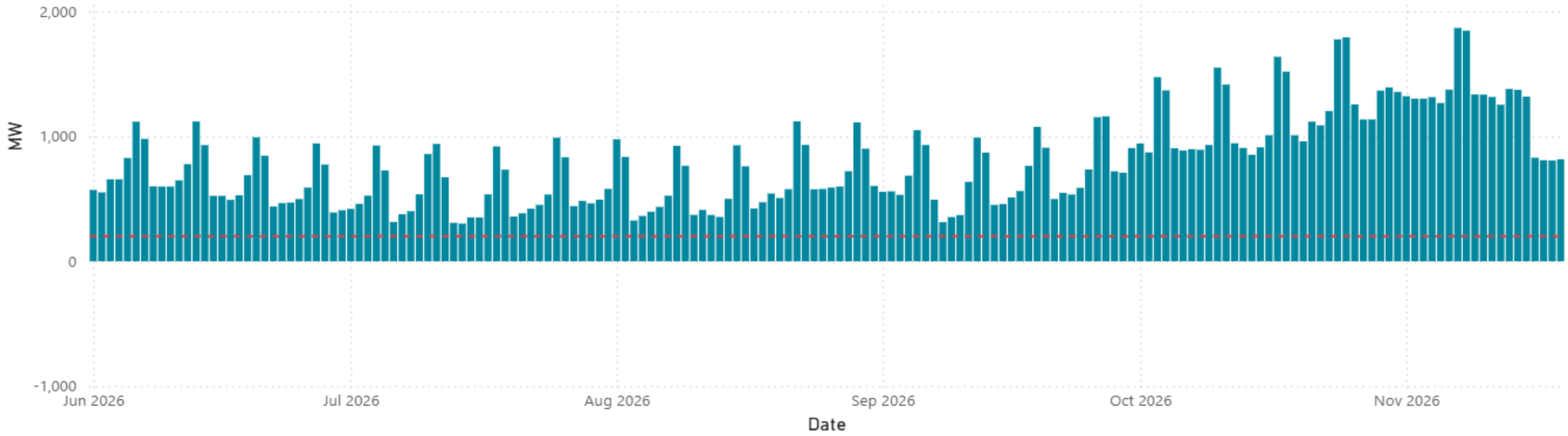


NZGB update

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

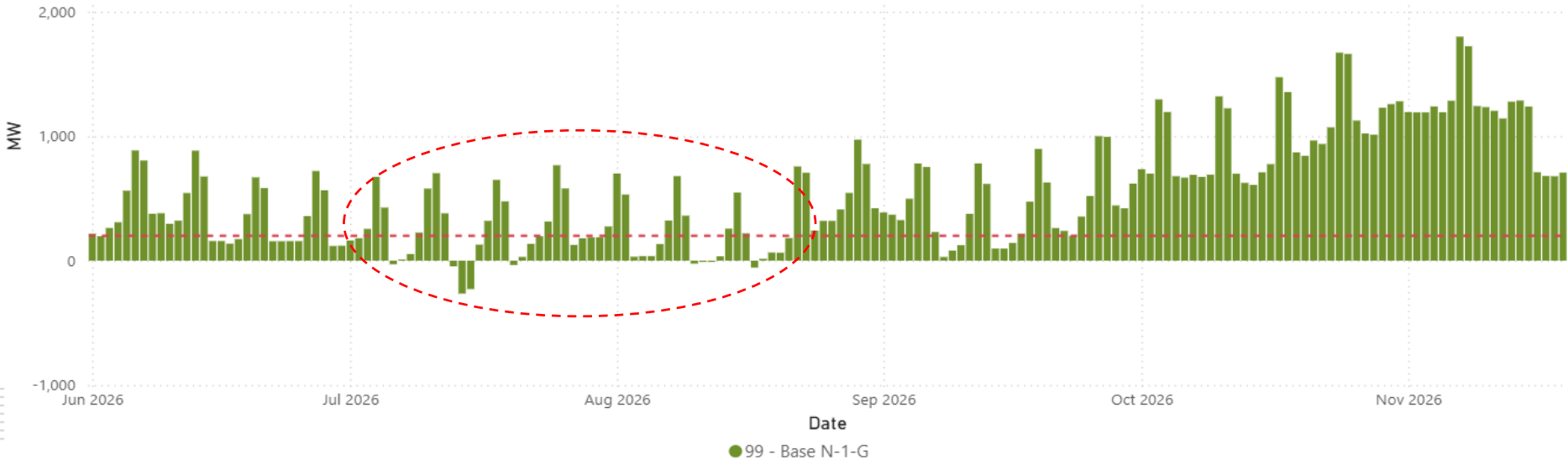
90th percentile load



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

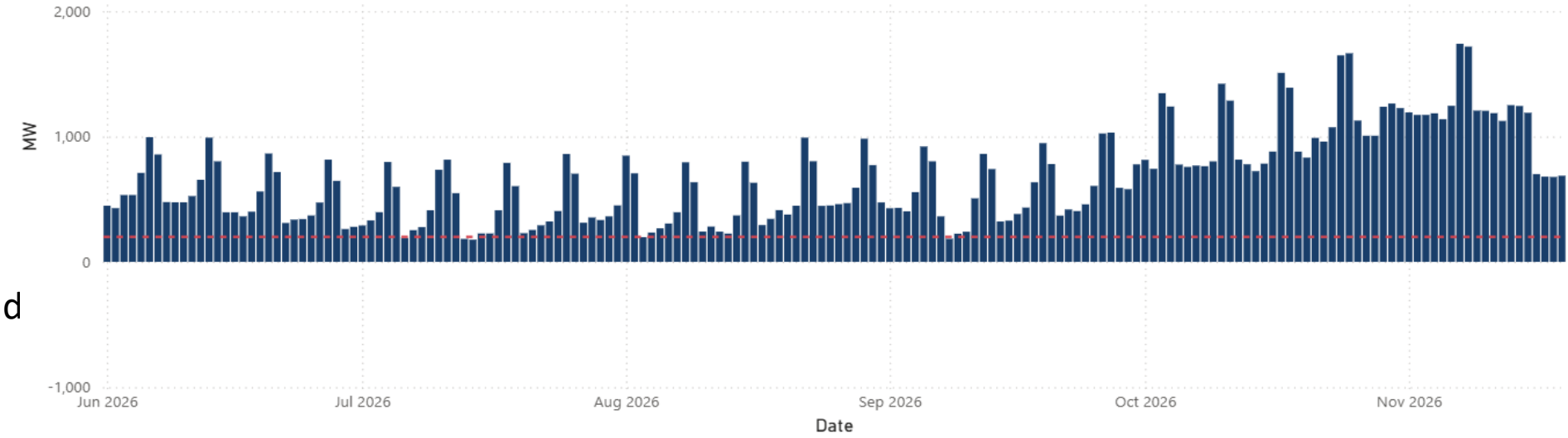
99th percentile load



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

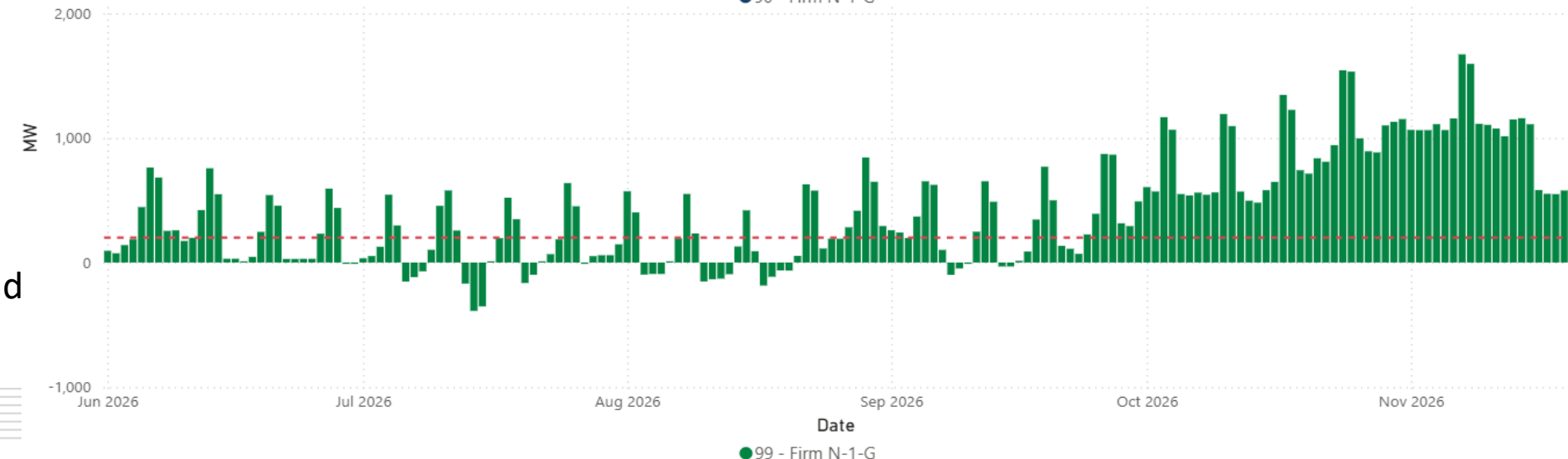
90th percentile load



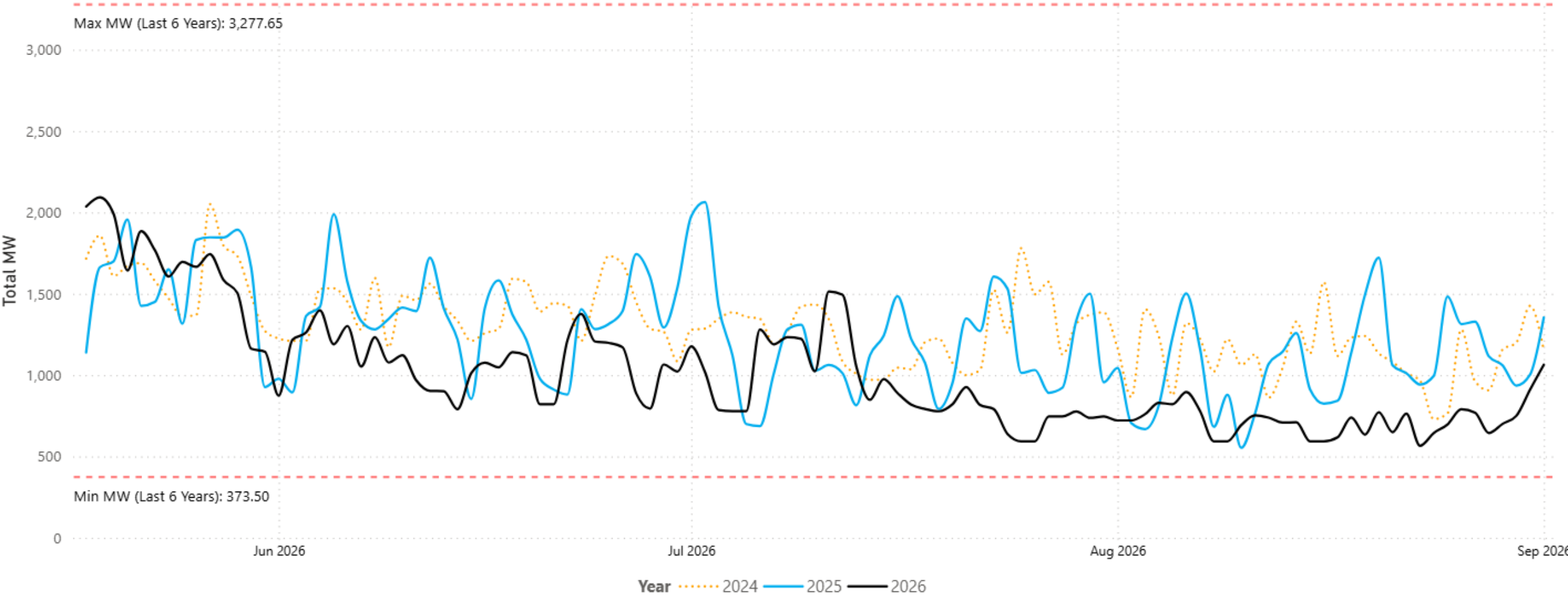
Firm capacity removes

- 1 HLY Rankine over winter months June to November, and 2 Rankines 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)

-239.48 MW

Mean % Difference (2025/2026)

-16.49%

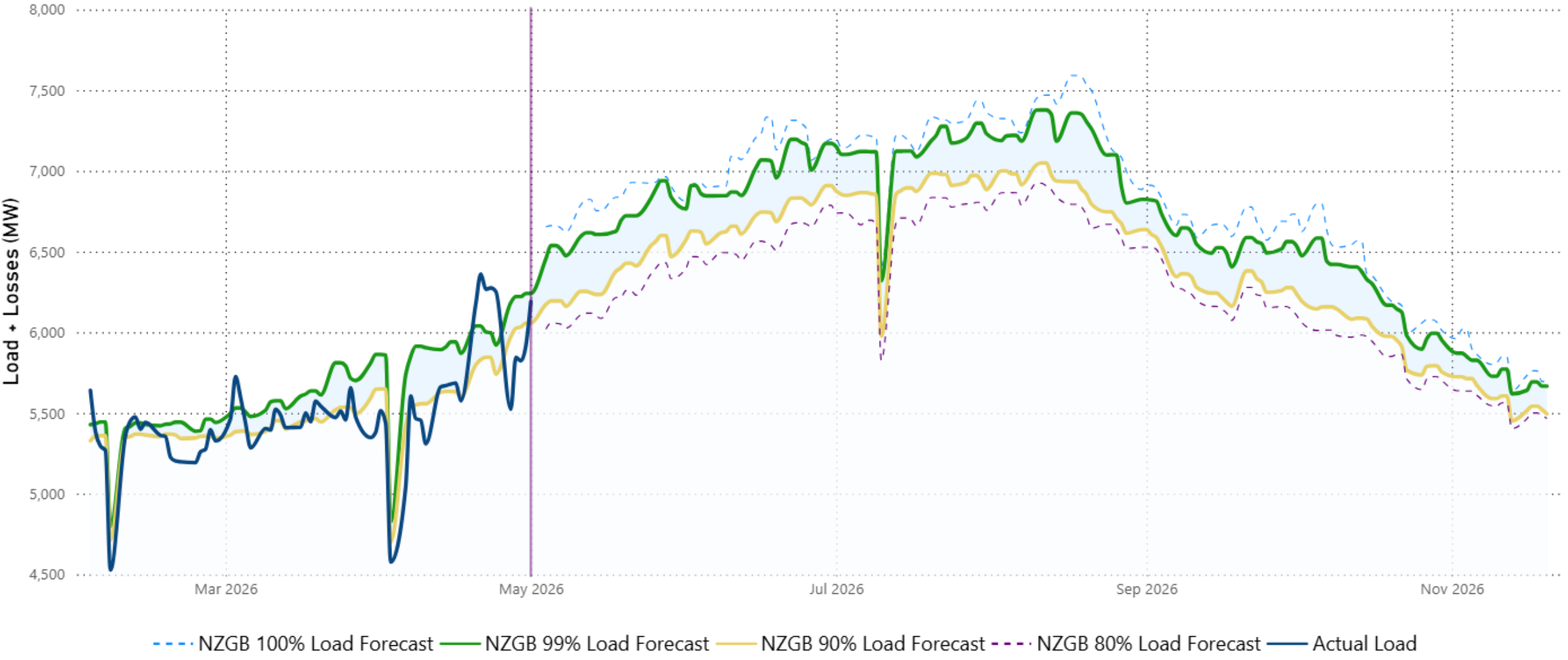
Date

15/05/2026 1/09/2026

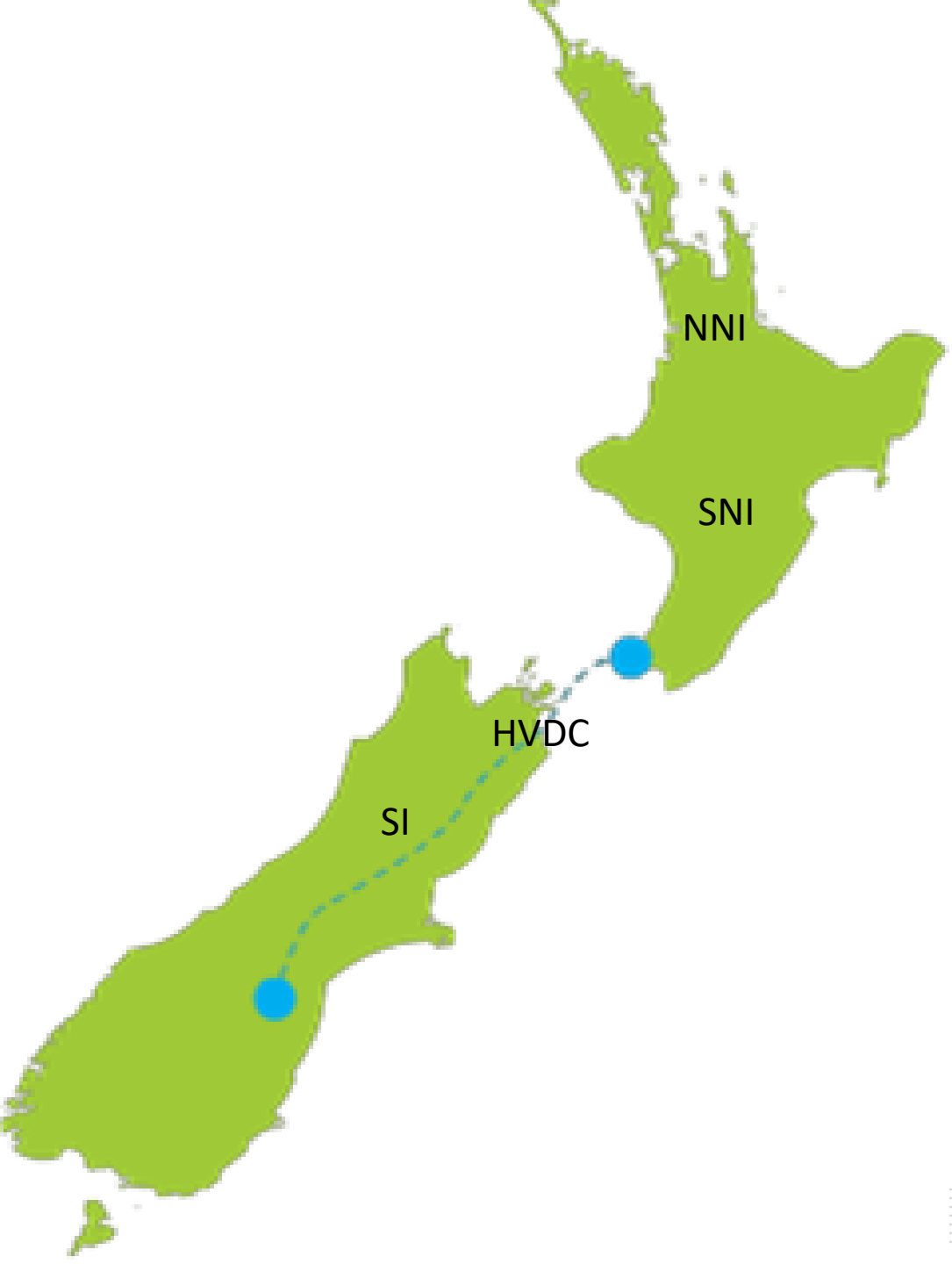
Year

2024
2025
2026

Peak Load vs Forecast



Outages next 4 weeks



Outages

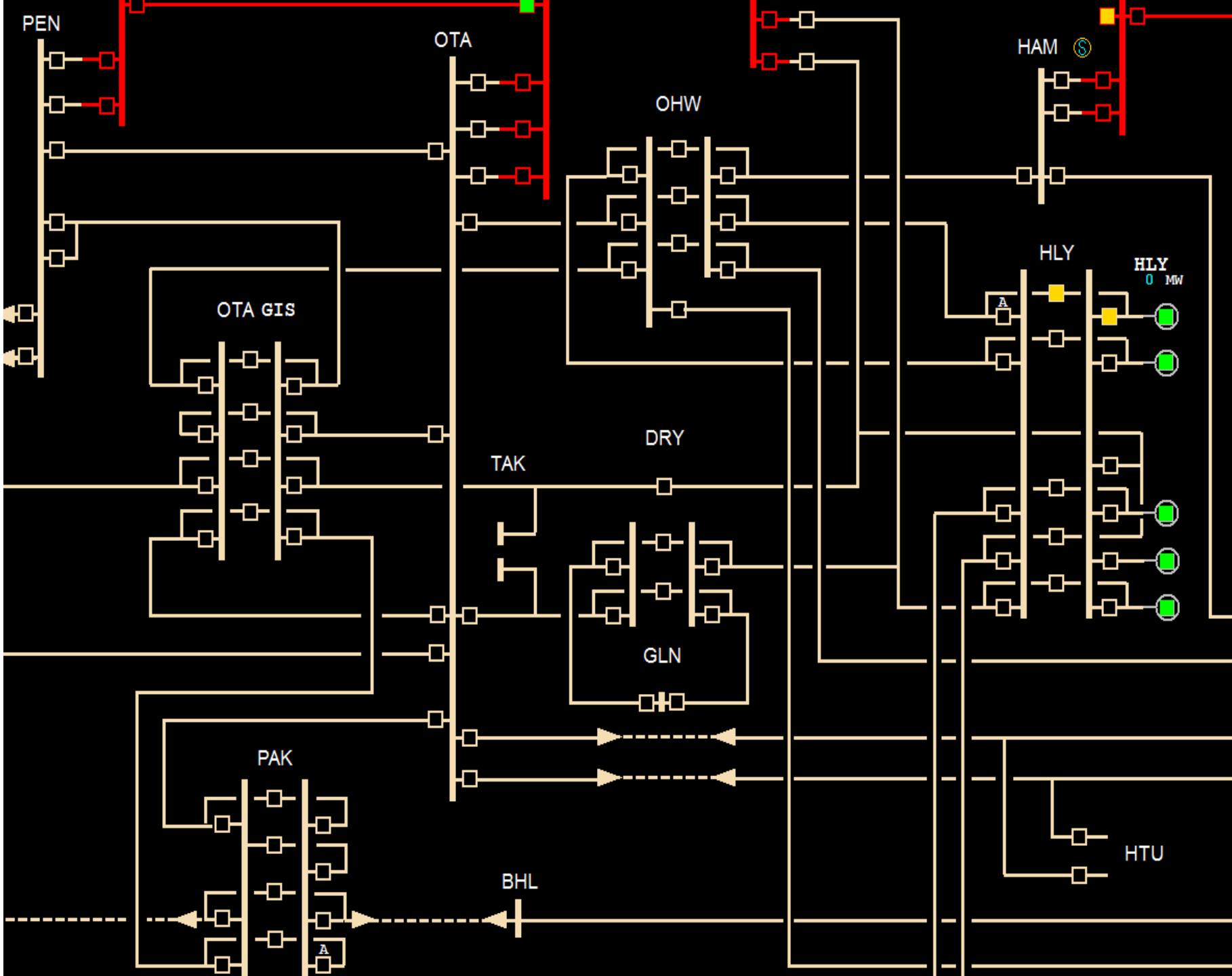
- NNI outages
- SNI outages
- SI outages

Asset owners

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

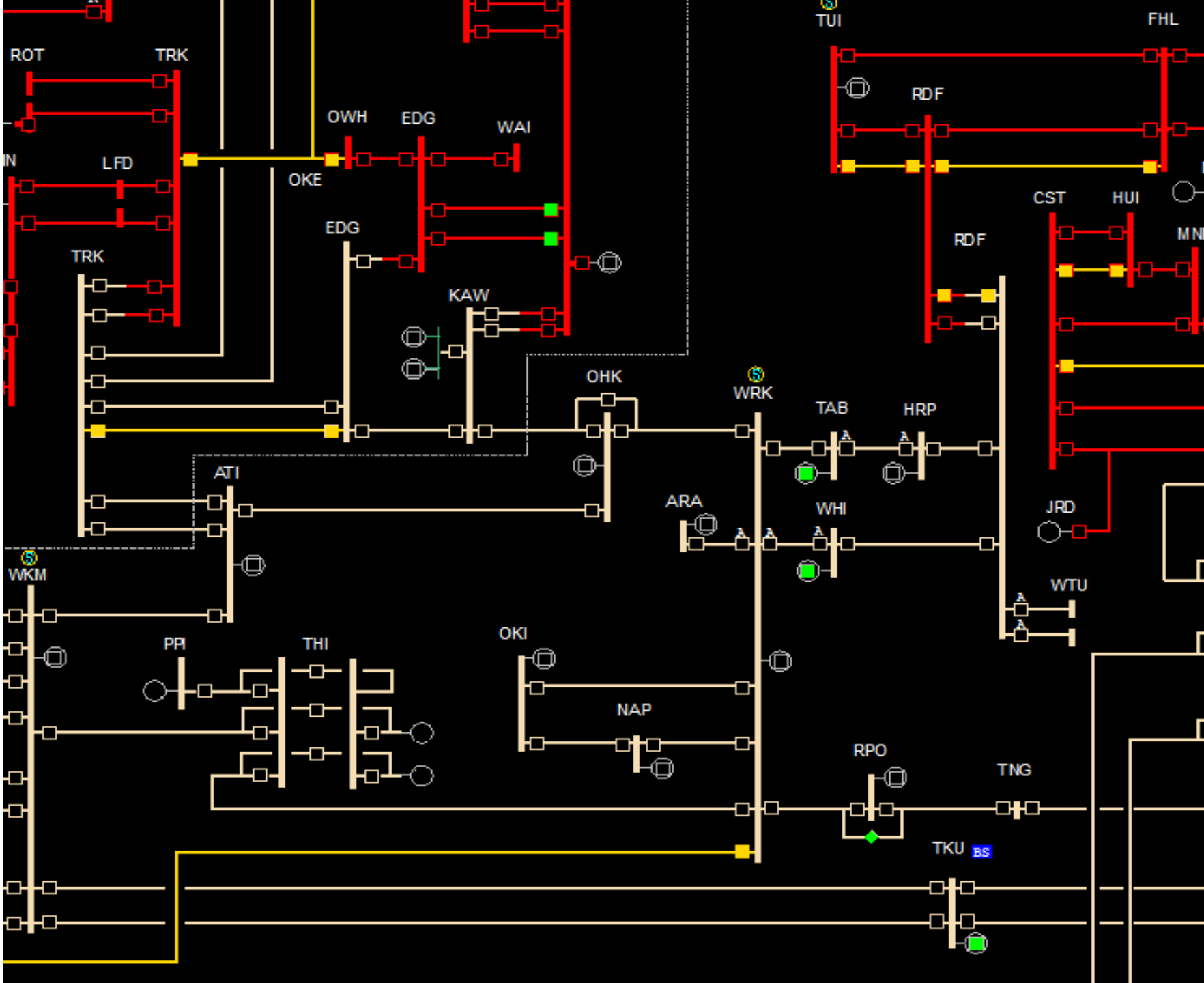
NNI Outages

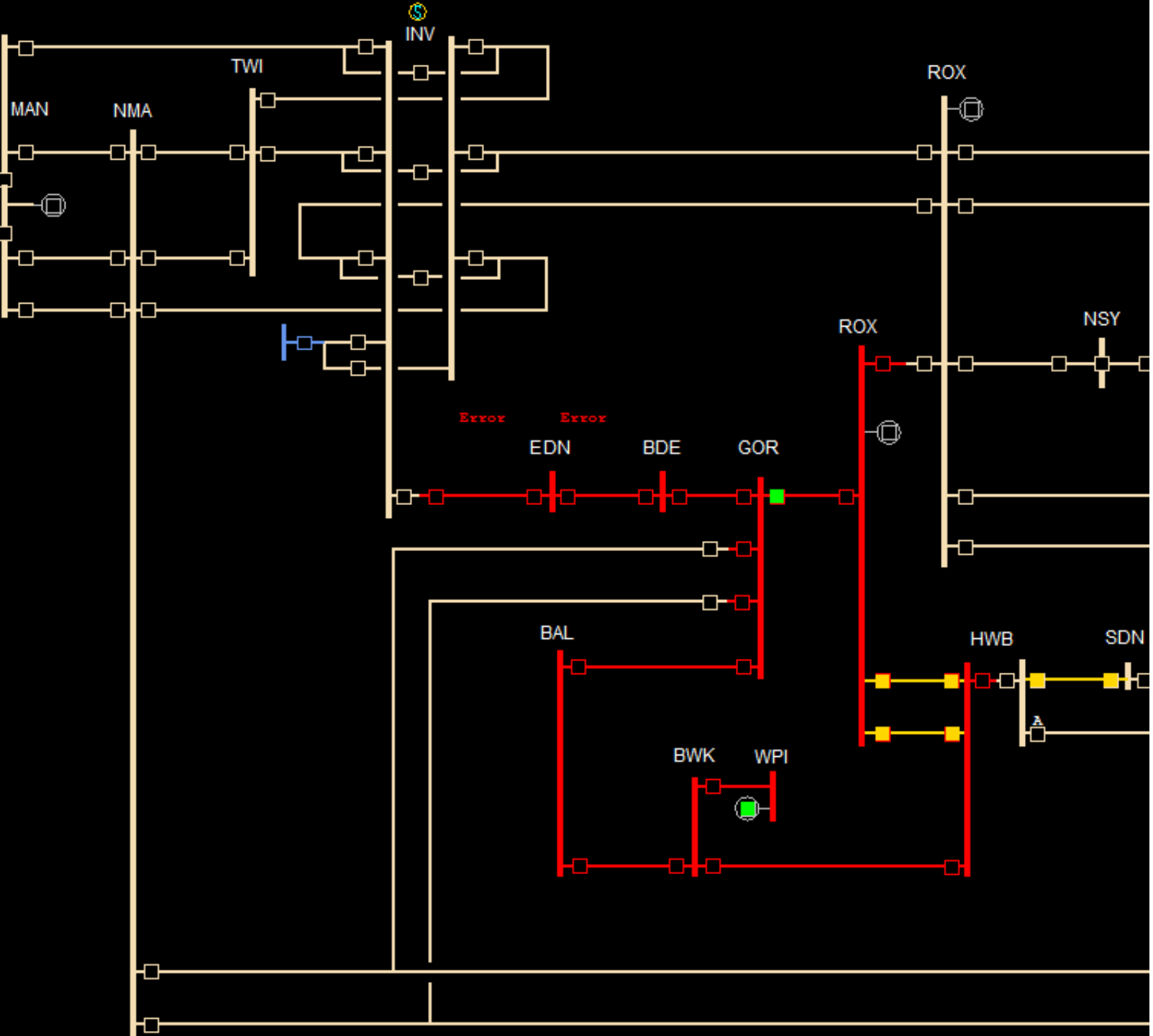
- Week of 25 May
  - EDG_T5
  - DRY_TAK_OTA_2
  - OHW_WKM_1
  - OTA_PEN_5
  - OTA_SWN_1
- Week of 1 June
  - EDG_T5
  - MNG_ROS_1
  - HOB_PEN_1
- Week of 8 June
  - EDG_T5
  - EDG_KAW_3
  - HLY_OHW_1
  - DRY_TAK_OTA_2
  - MNG_ROS_1 / HEP_ROS_2 / OTA_ROS_2
- Week of 15 June
  - EDG_T5
  - DRY_TAK_OTA_2
  - OHW_WKM_1
  - KMO_TRK_2 / KMO_TMI_1



SNI Outages

- 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
- Week of 8 June
  - HLY_SFD_1
  - BRK_SFD_3 then BRK_SFD_1
  - MGM_MST_1
- Week of 15 June
  - BRK_SFD_1

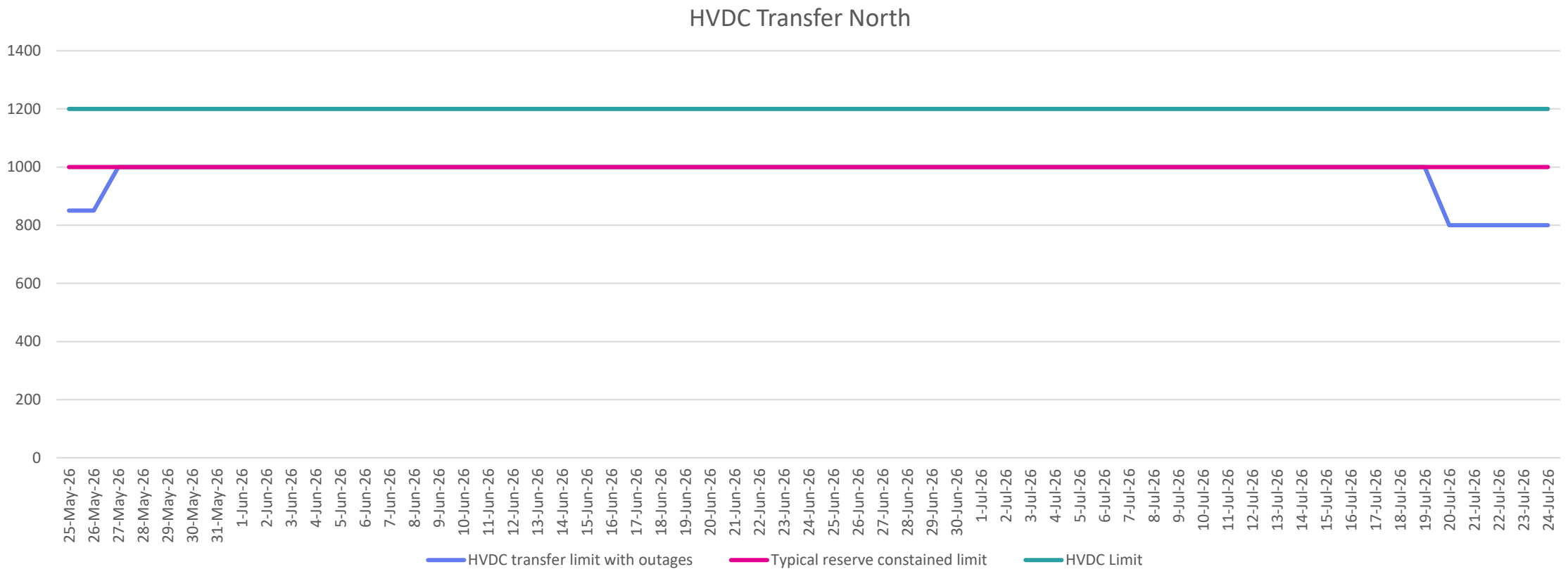




SI Outages

- 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_1 then HOR_KBY_ISL_2
  - ISL_WPR_CUL_KIK_2
- Week of 8 June
  - NMA_TWI_1
  - BDE_GOR_1
  - STU_TIM_1
- Week of 15 June
  - NMA_TWI_2
  - BDE_EDN_1
  - HOR_KBY_ISL_1 with HOR_KBY_ISL_2 (weekend)

HVDC North transfer limit

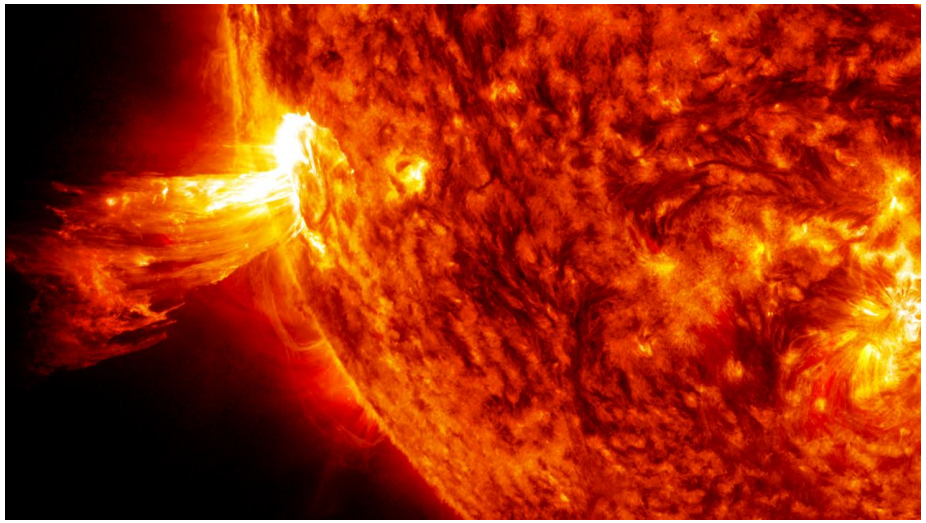


Operational update

Quick operational reminders

- Demand Allocation Tool (DAT) is now operational. Reminder to ensure connected parties can access WITS at all times.

- Industry Exercise 2026 kicks off tomorrow afternoon
  - All communications start with “Industry Exercise 2026”
  - If a real world event occurs use “No duff”, depending on scale of event we may have to cancel event.



Ohangai Substation Project Update

Ohangai Substation

Fonterra is electrifying their Whareroa (WAA) plant in multiple stages.

Stage 1:

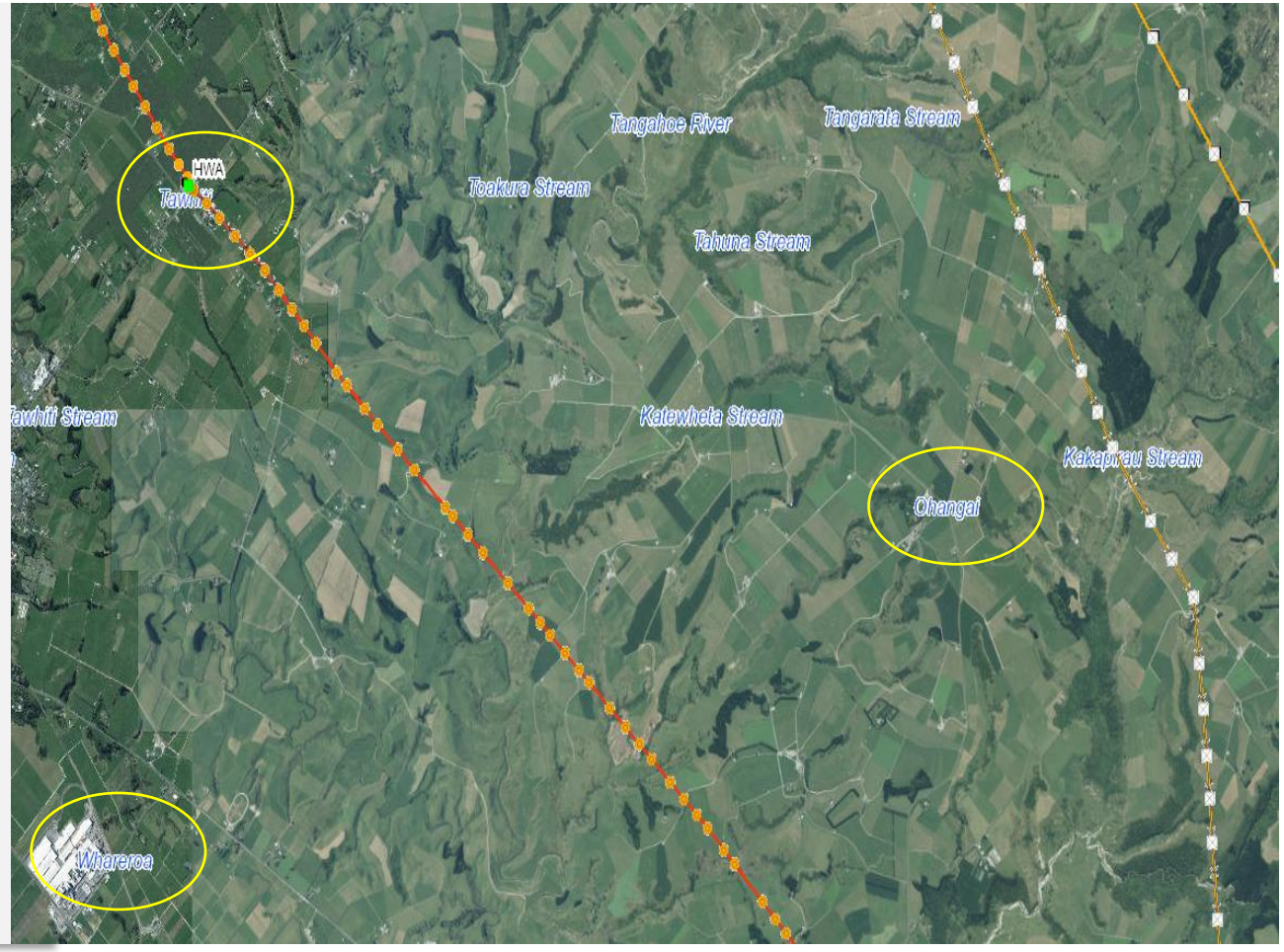
- Two new electrode boilers
- Increases the gross load

Further electrification is under investigation

Two options were considered to enable the electrification:

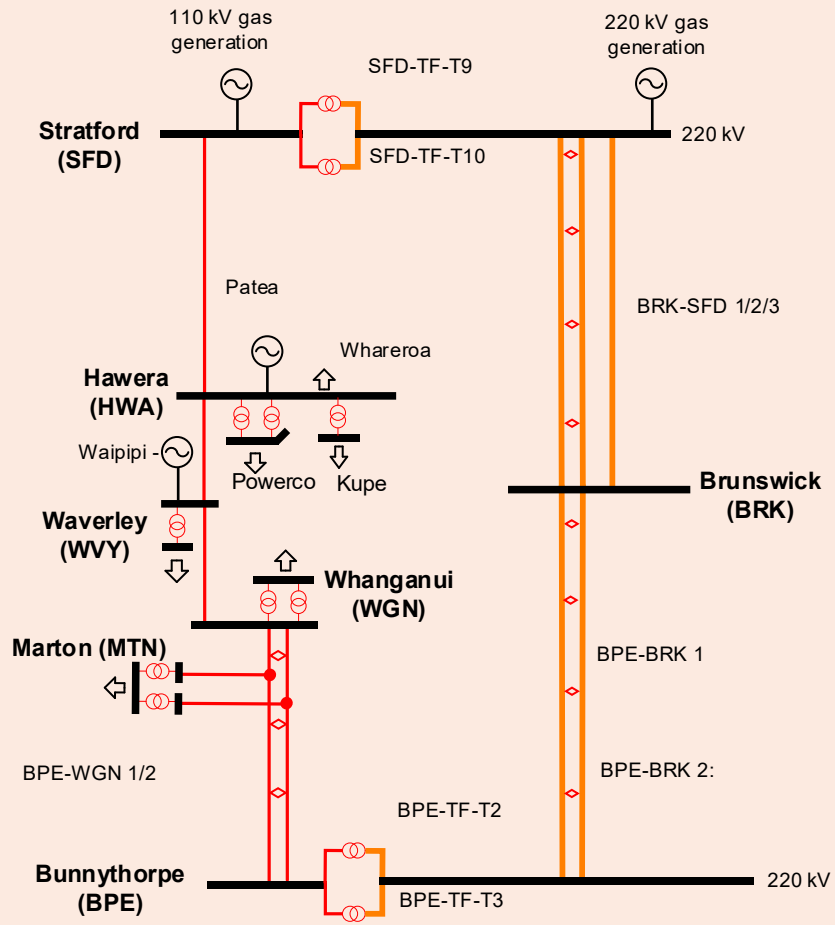
- Reactive support at Hawera (HWA)
- New substation at Ohangai (OHG)

Ohangai Substation Commissioning : 26th June 2026

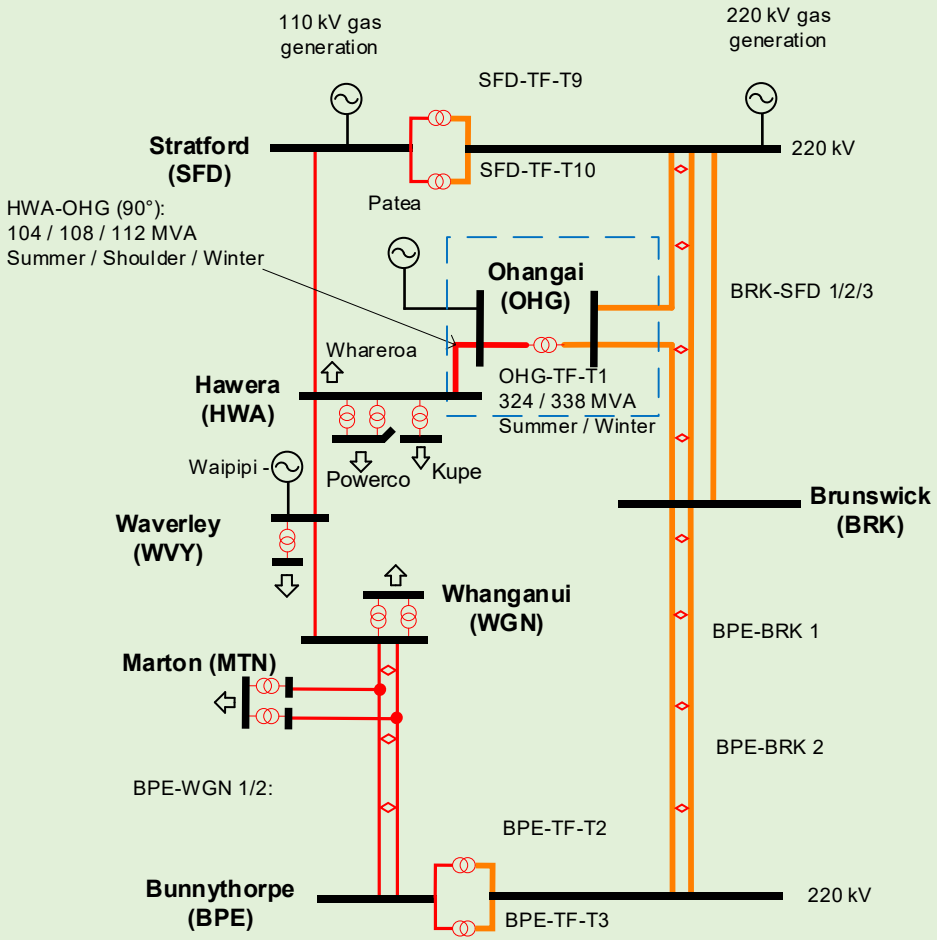


Before vs After

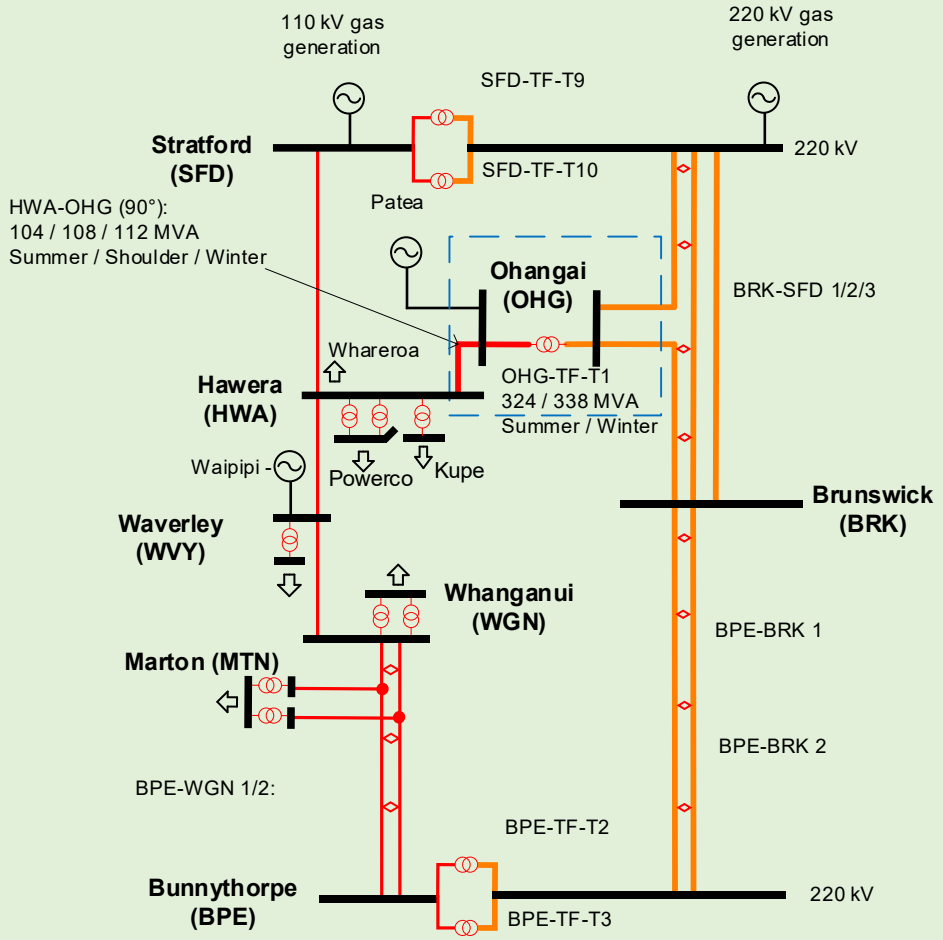
Existing



Future

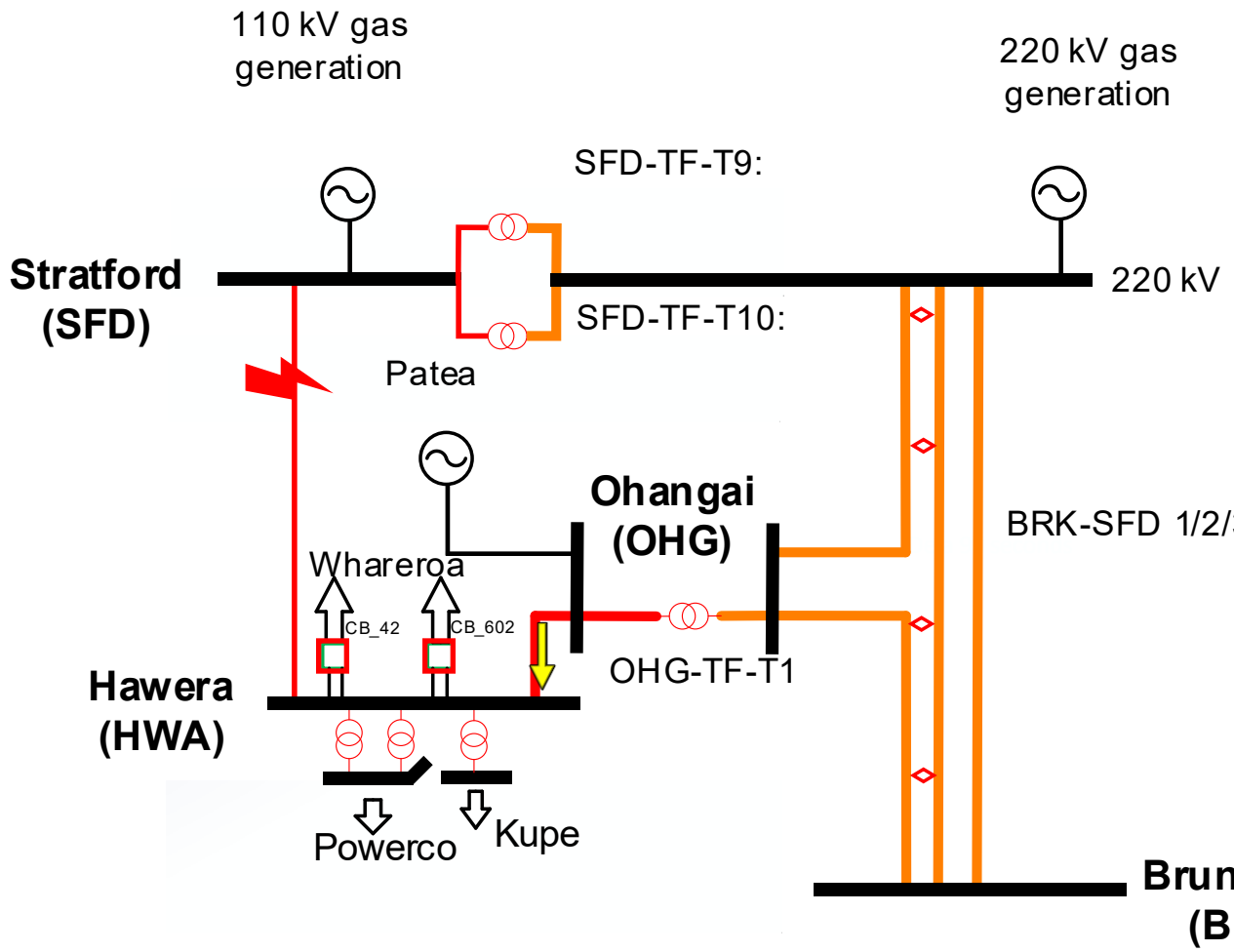


New Circuits and Transformer



- Brunswick_Ohangai_1 (BRK_OHG_1)
- Stratford _Ohangai_1 (SFD_OHG_1)
- Hawera _Ohangai_1 (HWA_OHG_1)
- Ohangai_T1 (OHG_T1)

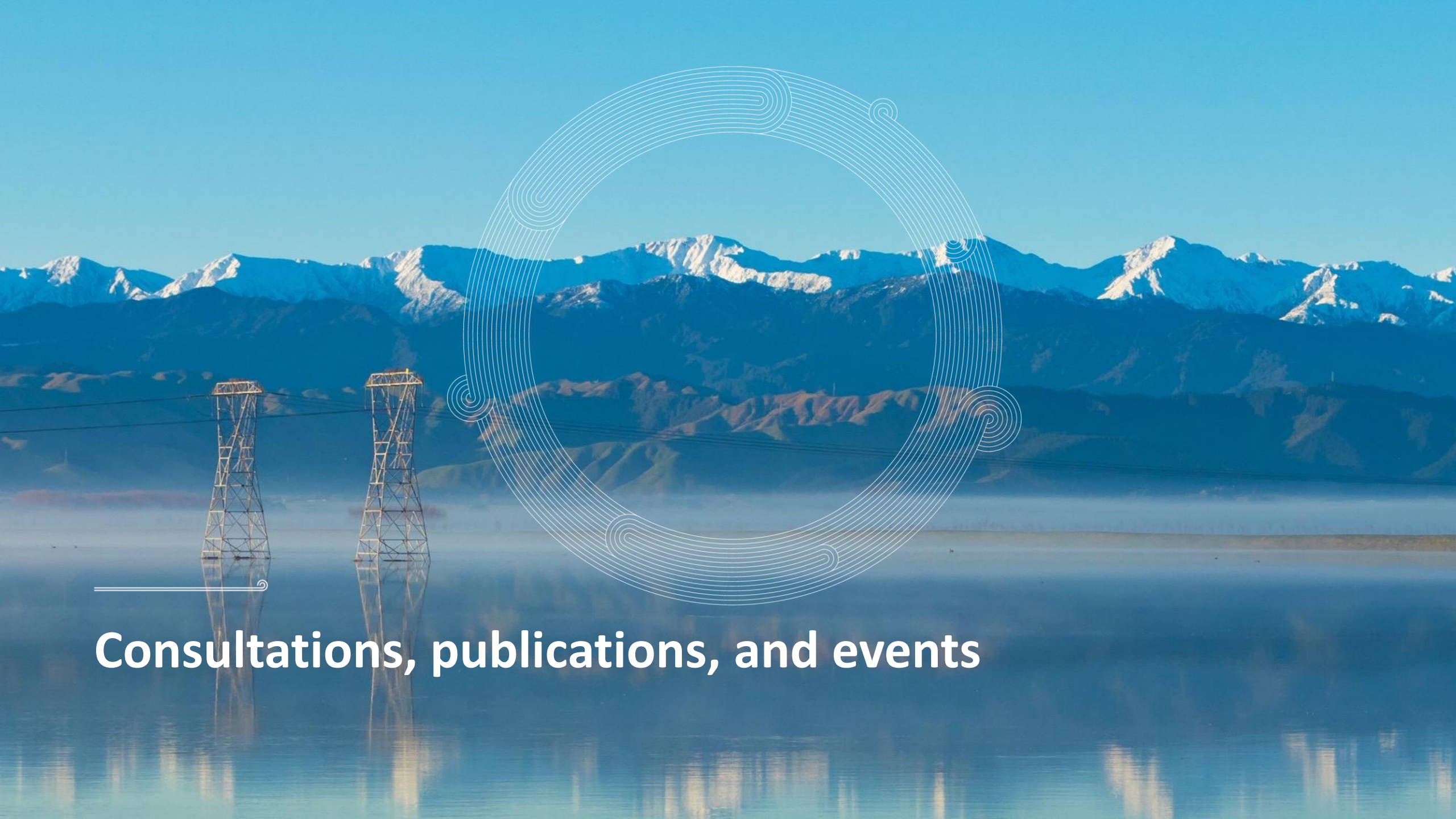
Special Protection Scheme (SPS)



- A new SPS will be commissioned, the HWA-OHG Circuit Overload Protection Scheme(COPS). It will be normally enabled.
- The COPS will prevent overloading HWA-OHG by shedding load at WAA (Fonterra).
- This overload can be caused by a tripping of HWA-SFD-1.
- If HWA-OHG is ≥95% loaded, the COPS will signal Fonterra to shed load.
- If HWA-OHG is ≥100% loaded, the COPS will sequentially trip breakers at HWA until the overload is resolved.

Summary

- OHG substation to be commissioned on 26 June 2026 to supports Fonterra's increased load with a new special protection scheme HWA-OHG COPS .
- Further electrification is under investigation
- New grid injection point at OHG helps to Increase the Grid Capacity to Support Load Growth as industrial customers transition from fossil fuel to grid-supplied electricity
- New GIP helps to feed the future increase in load in south Taranaki region and increase the system reliability



Consultations, publications, and events

Consultations, publications, and events

We opened the consultation on our **draft Policy Statement** amendment proposal last Friday. Submissions are due by 5pm, Thursday 4 June.

We received 6 submissions to our draft **SOSA 2026 consultation**, which have been published on the consultation page, we are now in a period for cross submissions which closes this Thursday 21 May.

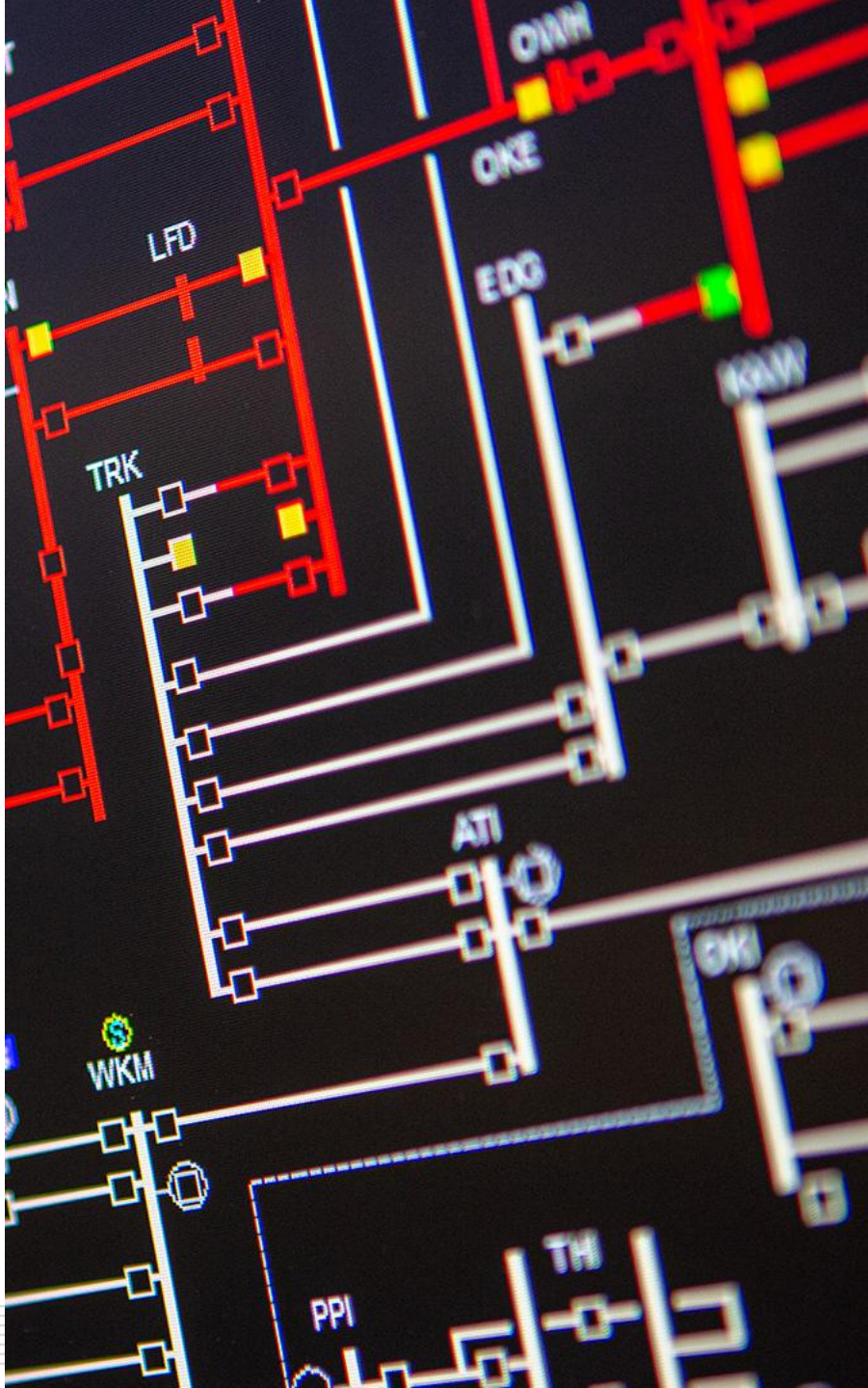
Expressions of interest for our **Emergency Reserve** industry co-design panel close this Wednesday 20 May. EOI documents are available on our website.

Industry Exercise 2026 commences tomorrow, running over the next two days. More information is available on our website.

We expect to publish our latest **Quarterly Security of Supply Outlook** on our website this week.

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

We will be discussing the 2026 Wairakei ring outages at the 13 July 2026 SO Industry Forum.



Questions / Pātai

Please raise your hand

If you have feedback let us know via our **Feedback Form**

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