



TRANSPower

System Operator Industry Forum

25 August 2026



Today's agenda

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





Key Messages

- Hydro storage continues to decline but still above average for this time of year – however as we head into Spring, we expect to see inflows increase, and demand ease.
- NZGB shows September capacity risks still need industry focus on unit commitment, plant availability, and flexibility. Please keep POCP updated.
- System Operator would like to thank participants who responded proactively to the Lower South Island grid emergency on Sunday, making generation and voltage support available quickly.



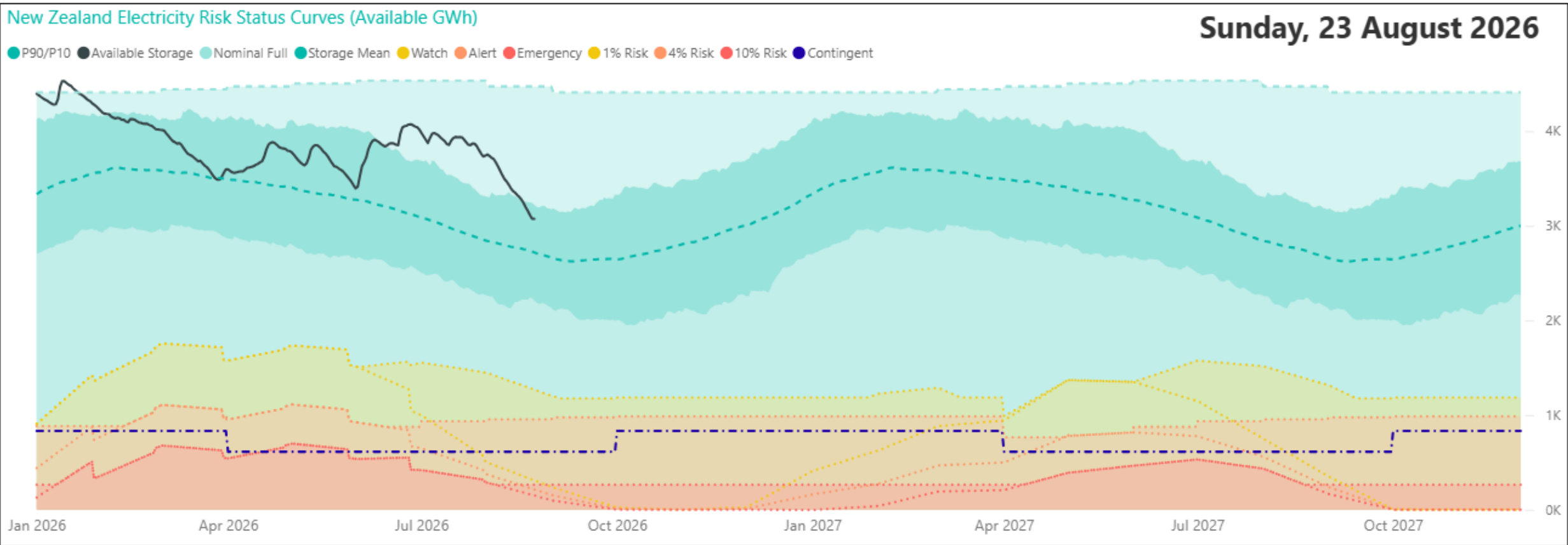
Market update

Energy: National hydro storage

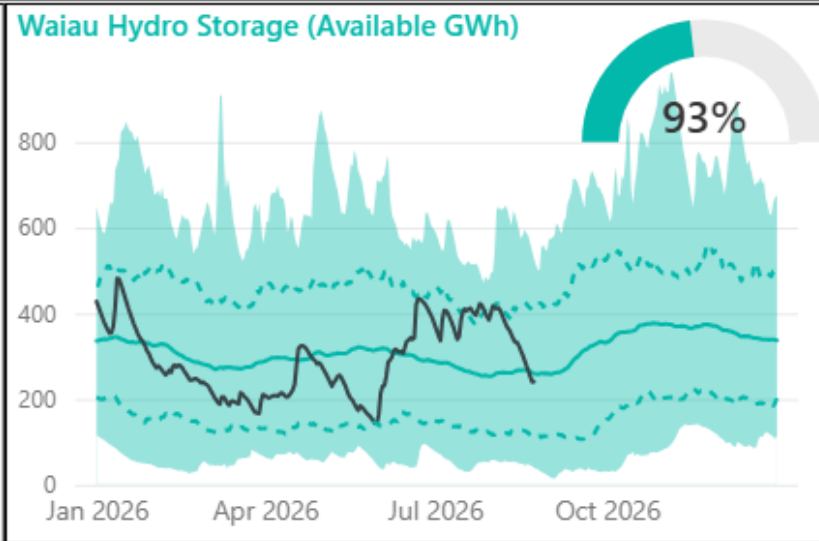
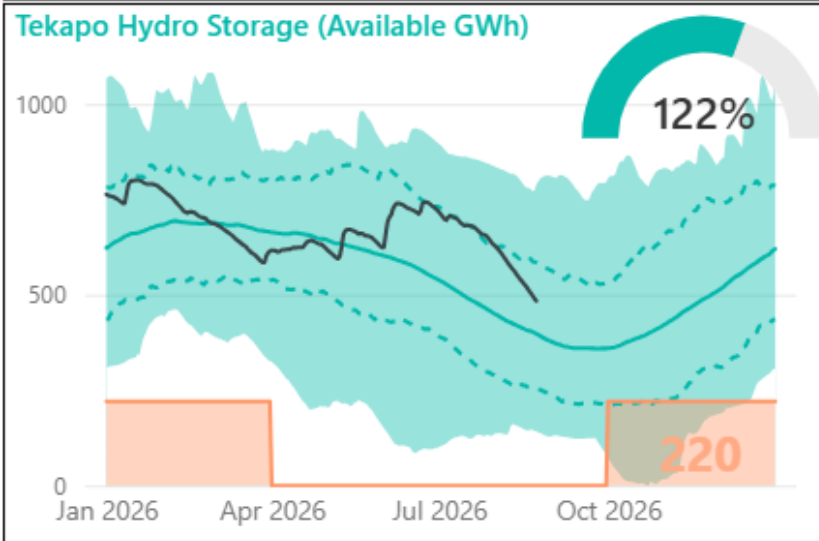
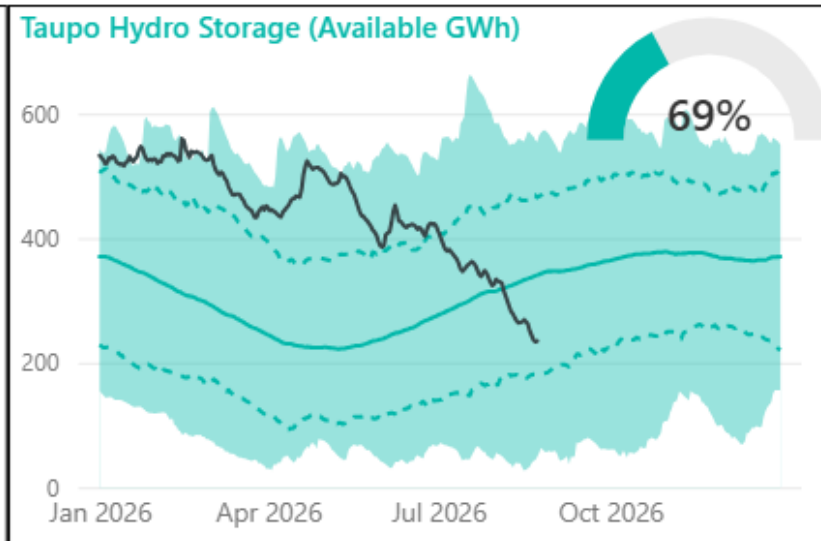
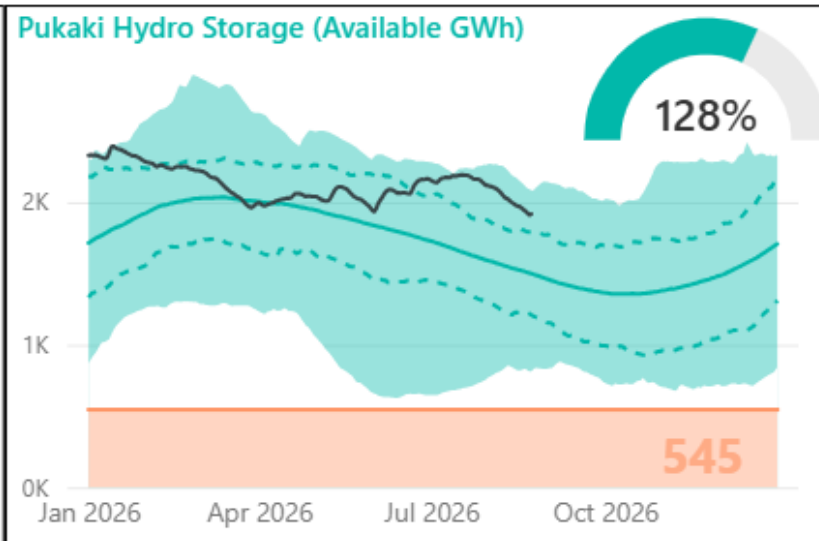
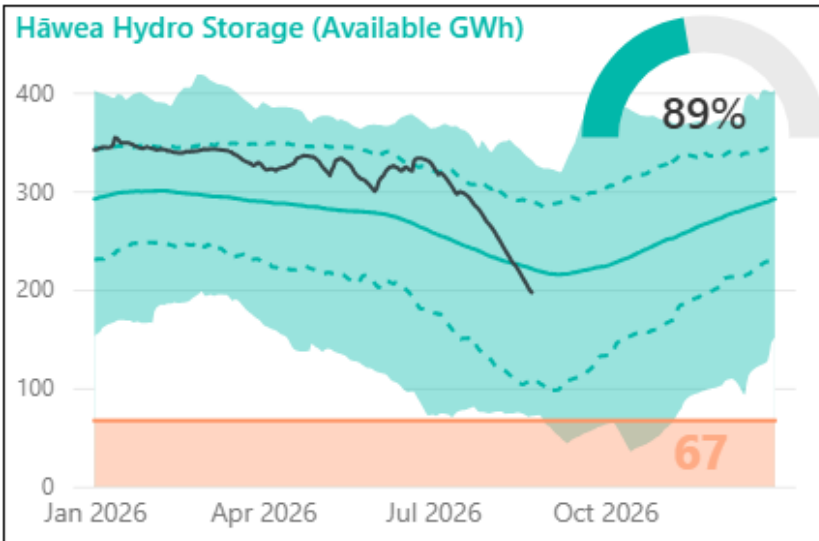
Continued decrease in storage for both islands in the last fortnight. National hydro storage remains healthy and above average.

	Hydro storage level (% of mean ▲ / ▼)		
	New Zealand	South Island	North Island
Last forum	125%	130%	87%
Now	113% ▼	119% ▼	69% ▼

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

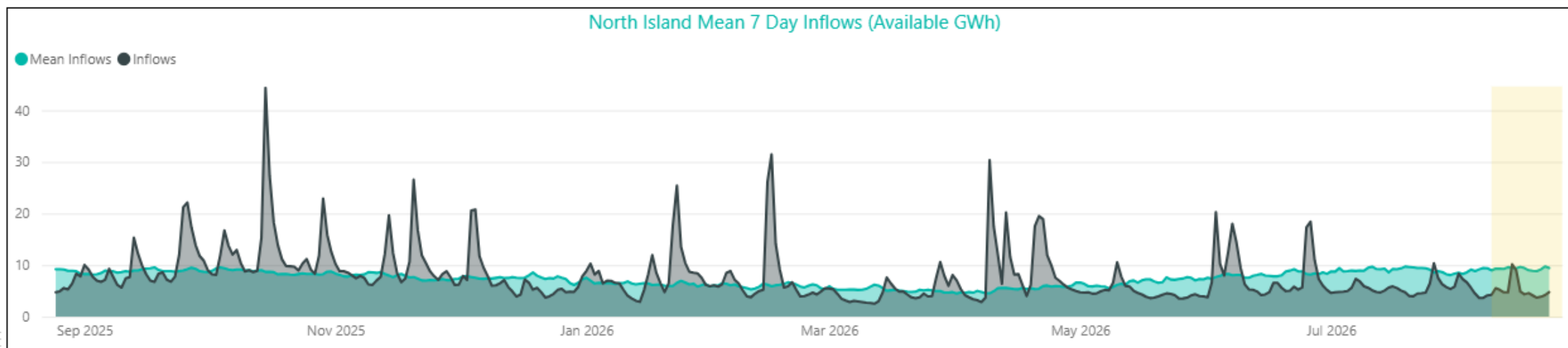
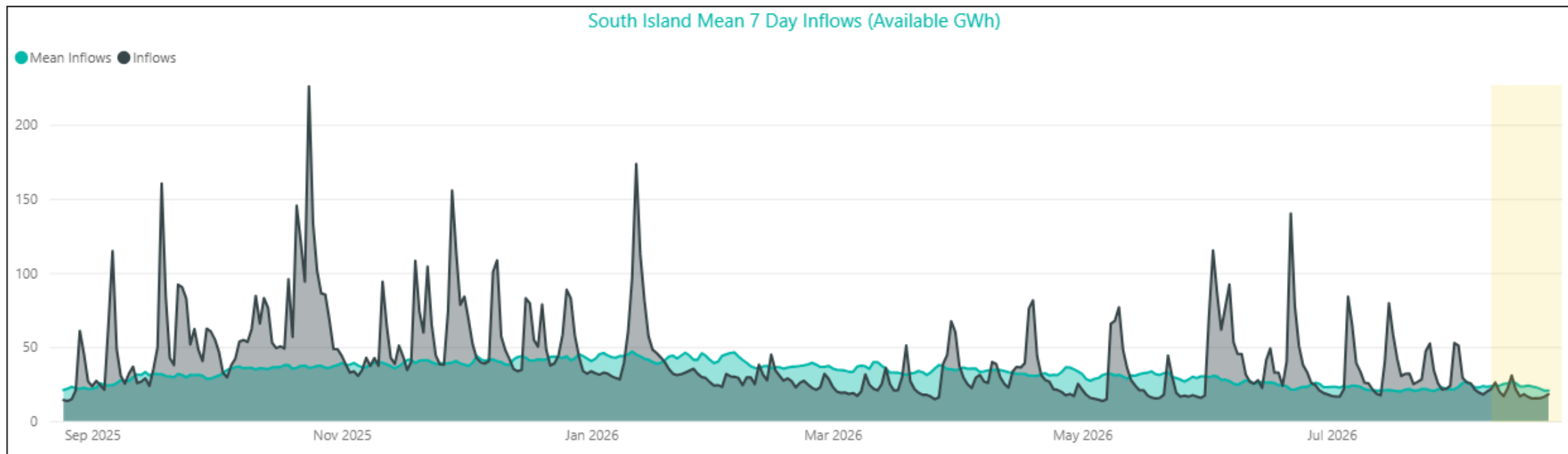


Hydro storage by catchment



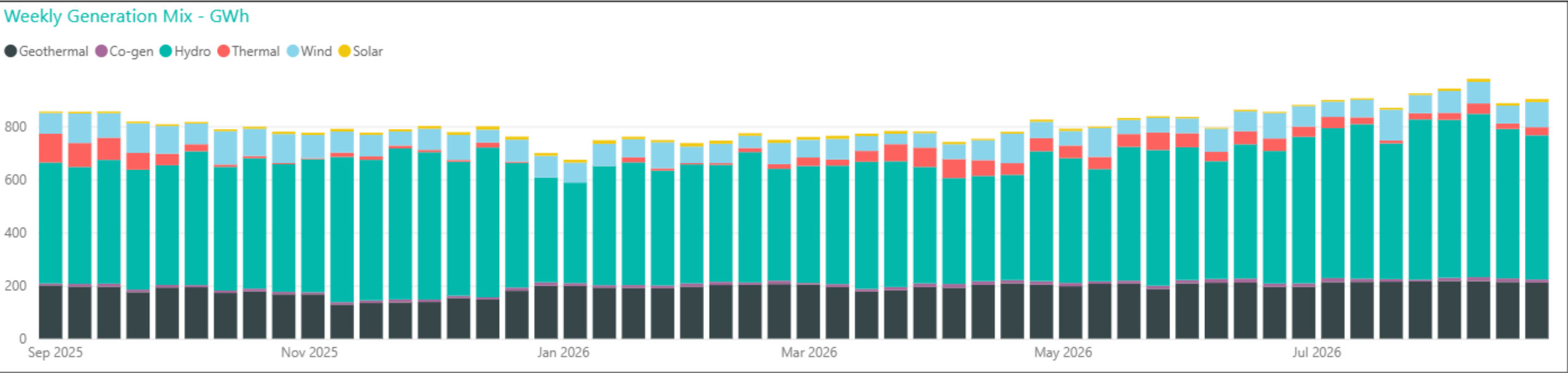
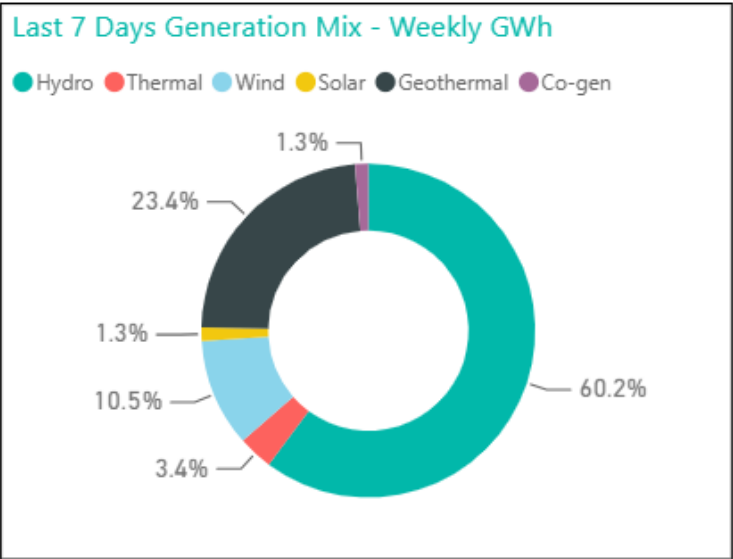
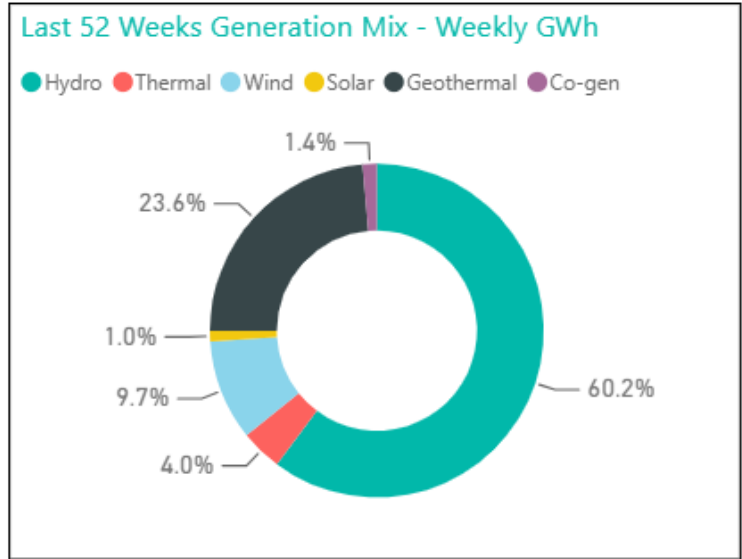
Lake	Percent	GWh	Mean
Hāwea	89%	197	221
Manapōuri	90%	79	88
New Zealand	113%	3073	2719
Pūkaki	128%	1916	1500
South Island	119%	2838	2378
Taupō	69%	235	341
Te Anau	94%	161	172
Tekapo	122%	484	397

Hydro inflows



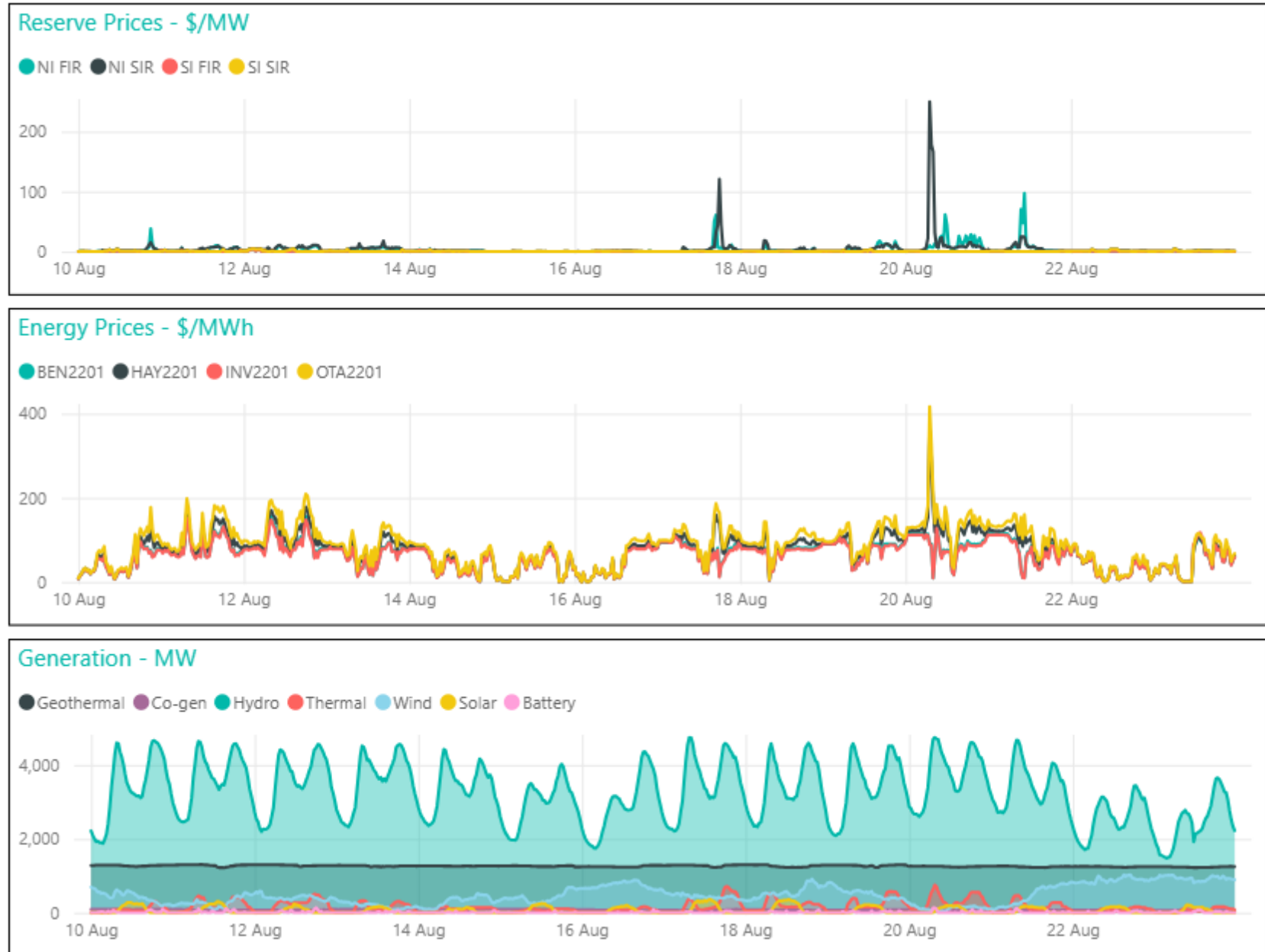
Generation mix

- Just about every generation type at their yearly average
- Hydro ~60%
- Thermal ~3-4%
- Geothermal ~23%
- Wind ~10%
- Solar ~1%
- Cogen ~1%



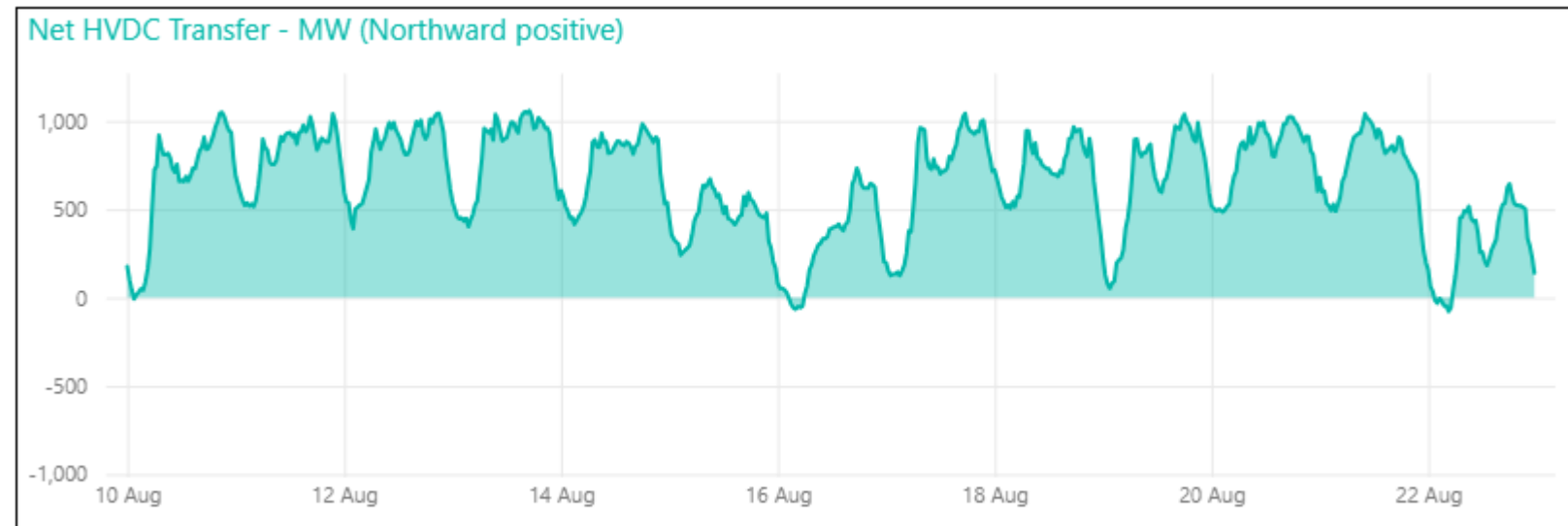
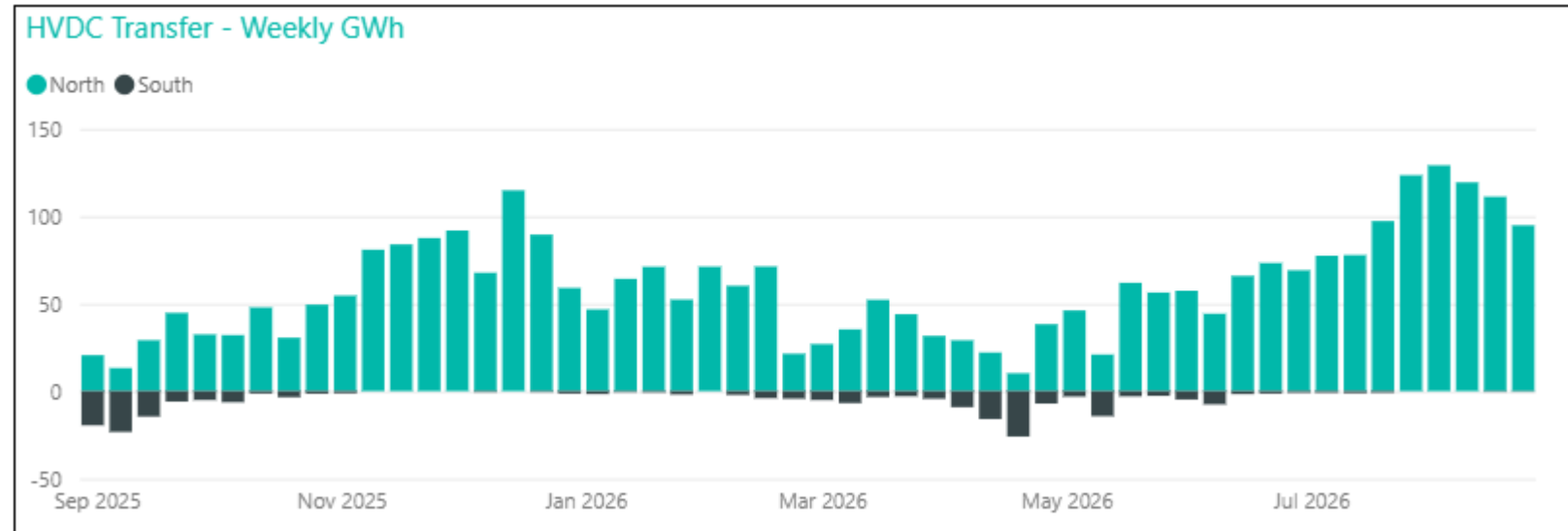
Pricing

- Price at Ōtāhuhu averaged \$95/MWh last week. Down since the last SO forum at \$140/MWh
- Prices peaked at \$417/MWh at Ōtāhuhu on Thursday 20 August during a low wind, high thermal generation and high demand morning peak.



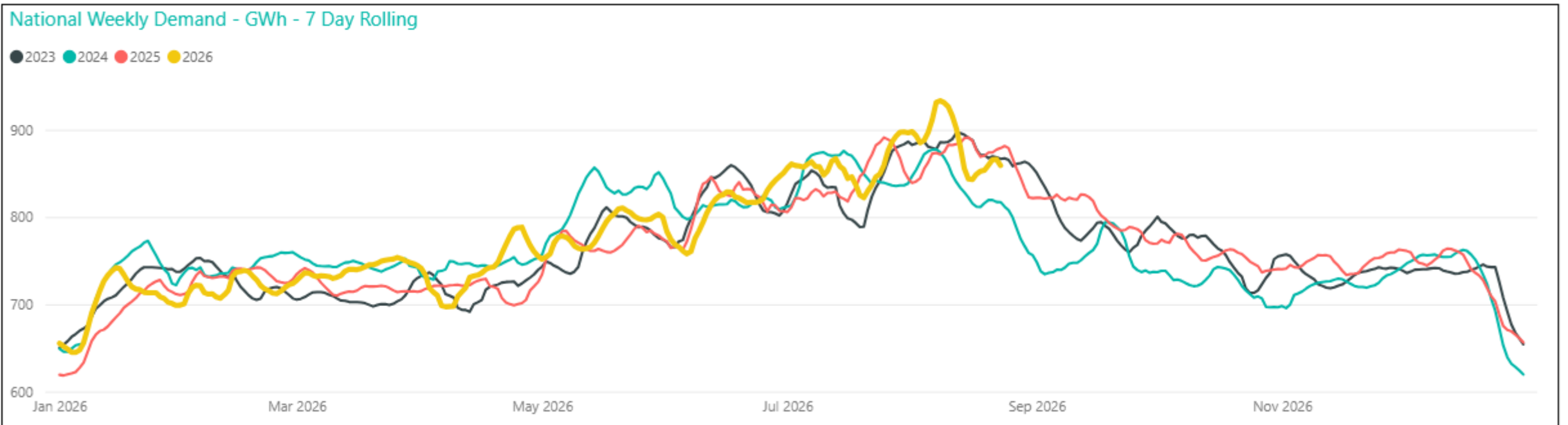
HVDC transfer

- HVDC transfer was almost entirely northward during the fortnight.
- Northward transfer was 111 GWh during the first week and 95 GWh in the second
- Negligible amounts of southward transfer overall



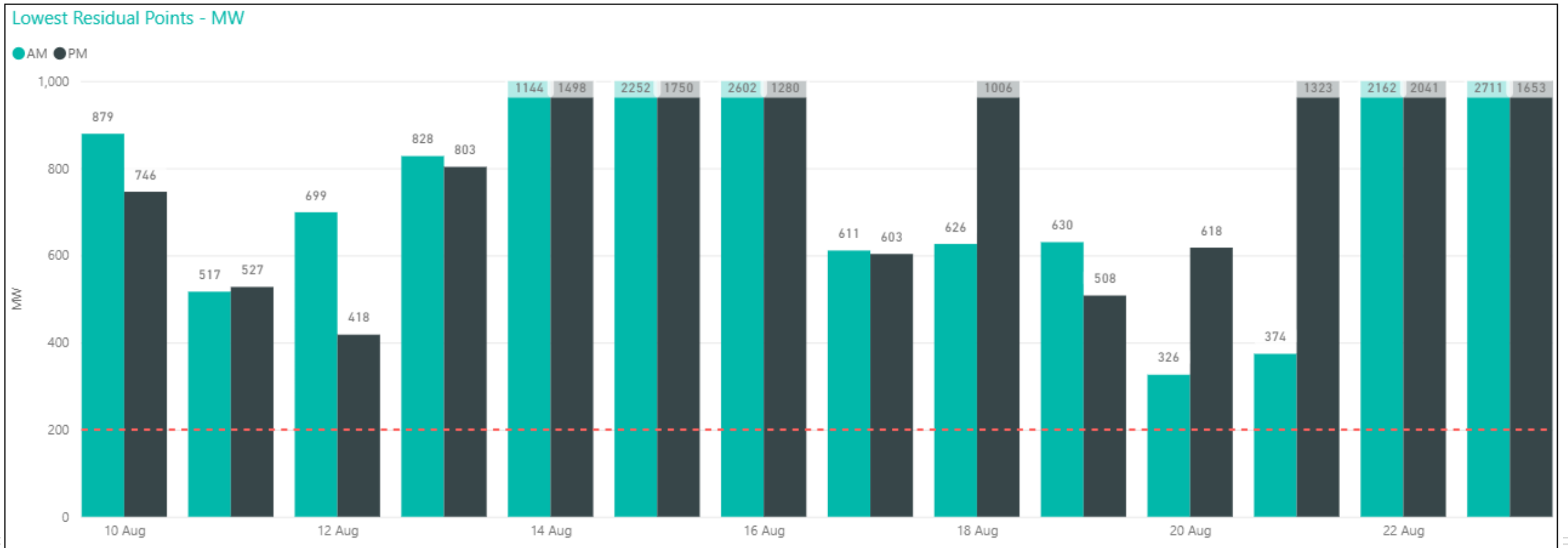
Demand

- Demand has reached levels back to as seen in previous years
- Peak demand reached 6,745 MW on the evening of Monday 17 August
- In total, demand achieved 859 GWh last week and 843 GWh the week prior



Capacity residual margins

- Returning moderate demand levels have meant healthy residuals over the past fortnight
- Some Customer Advice Notices (CANs) were issued last week due to forecasted low residual
- The lowest residual occurred on Thursday 20 August during a low wind and high demand morning





NZGB update

NZGB update: base capacity N-1-G

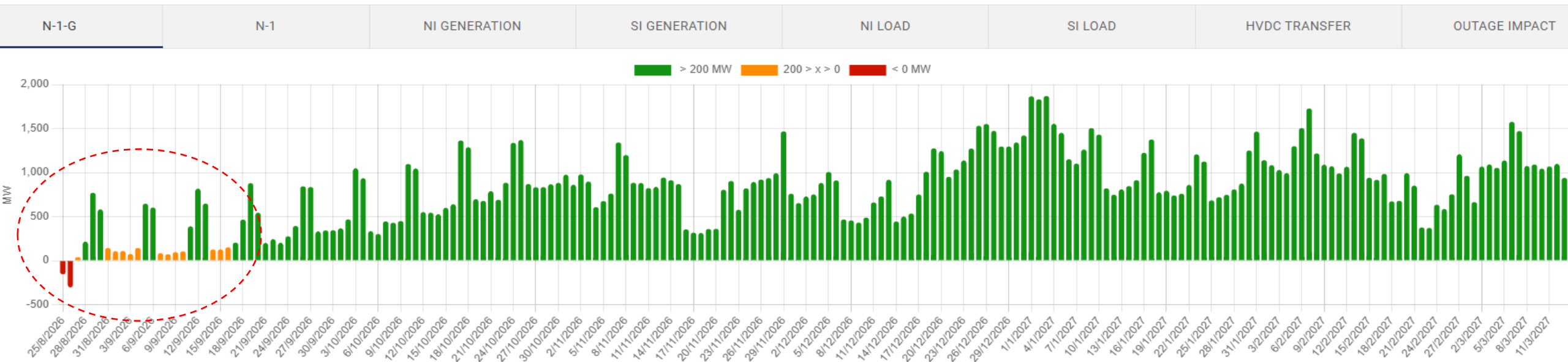
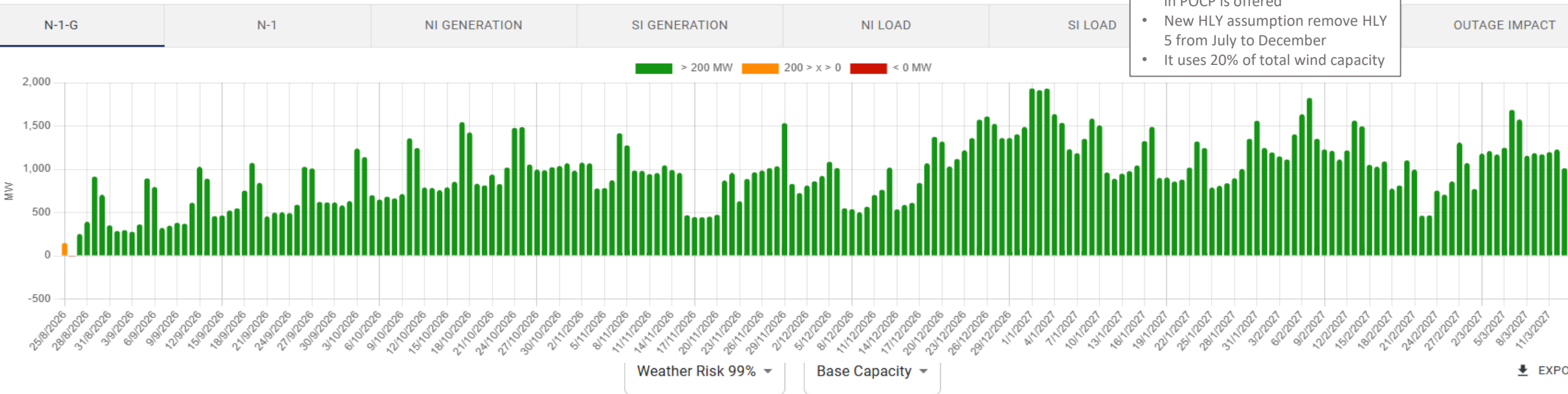
Weather Risk 90% (Default)

Base Capacity

Base case capacity at 90%

- ***This triggers the CAN process***
- Assumes all generation available in POCP is offered
- New HLY assumption remove HLY 5 from July to December
- It uses 20% of total wind capacity

EXP



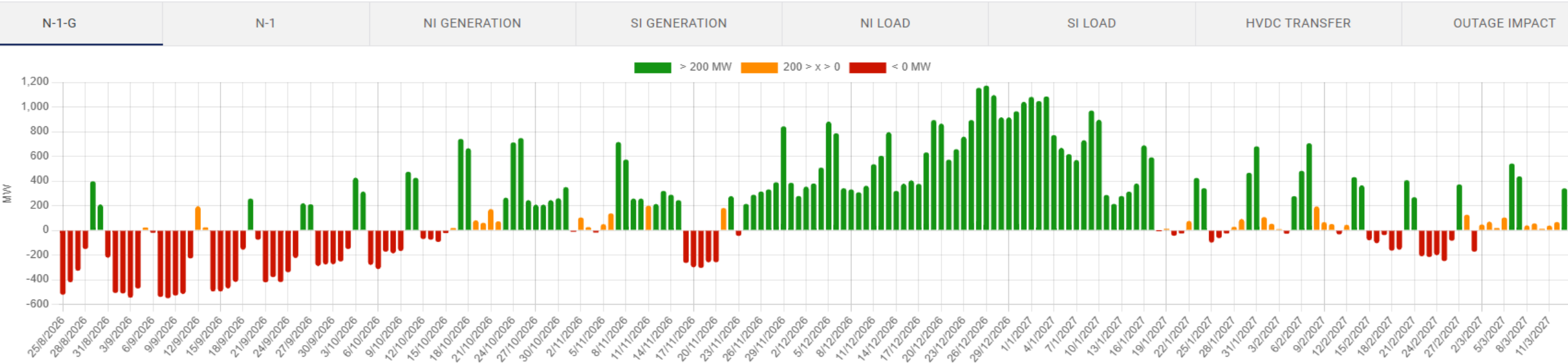
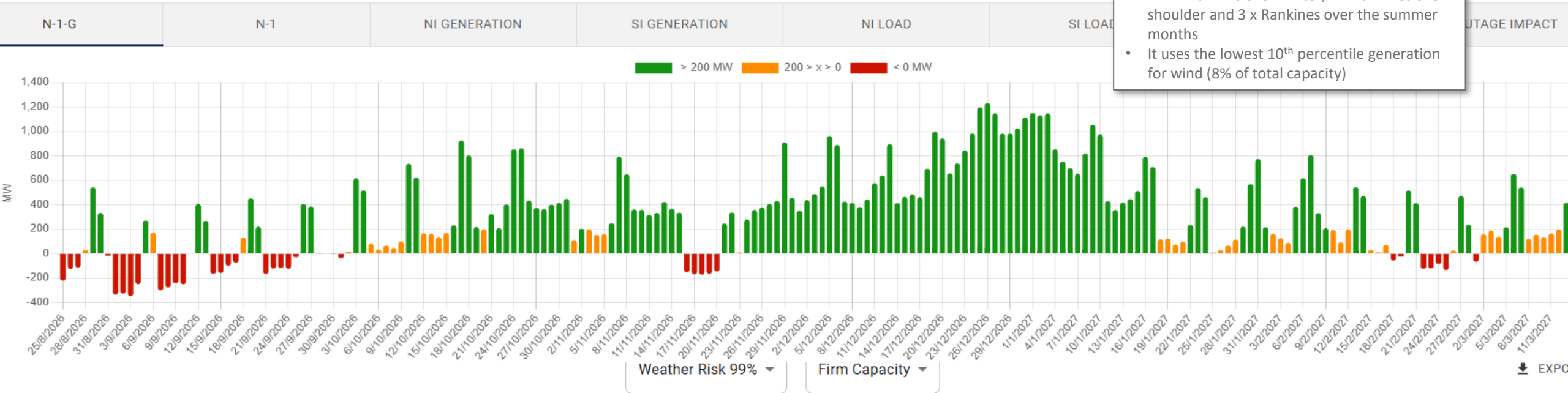
NZGB update: firm capacity only N-1-G

Weather Risk 90% (Default) ▾

Firm Capacity ▾

Firm capacity removes

- 1 HLY Rankine over winter, 2 x Rankines over shoulder and 3 x Rankines over the summer months
- It uses the lowest 10th percentile generation for wind (8% of total capacity)





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 31 August

- EDG_T5
- EDG_KAW_1
- EDG_OWH_2
- MNG_ROS_2
- MDN_MPE_1

Week of 7 September

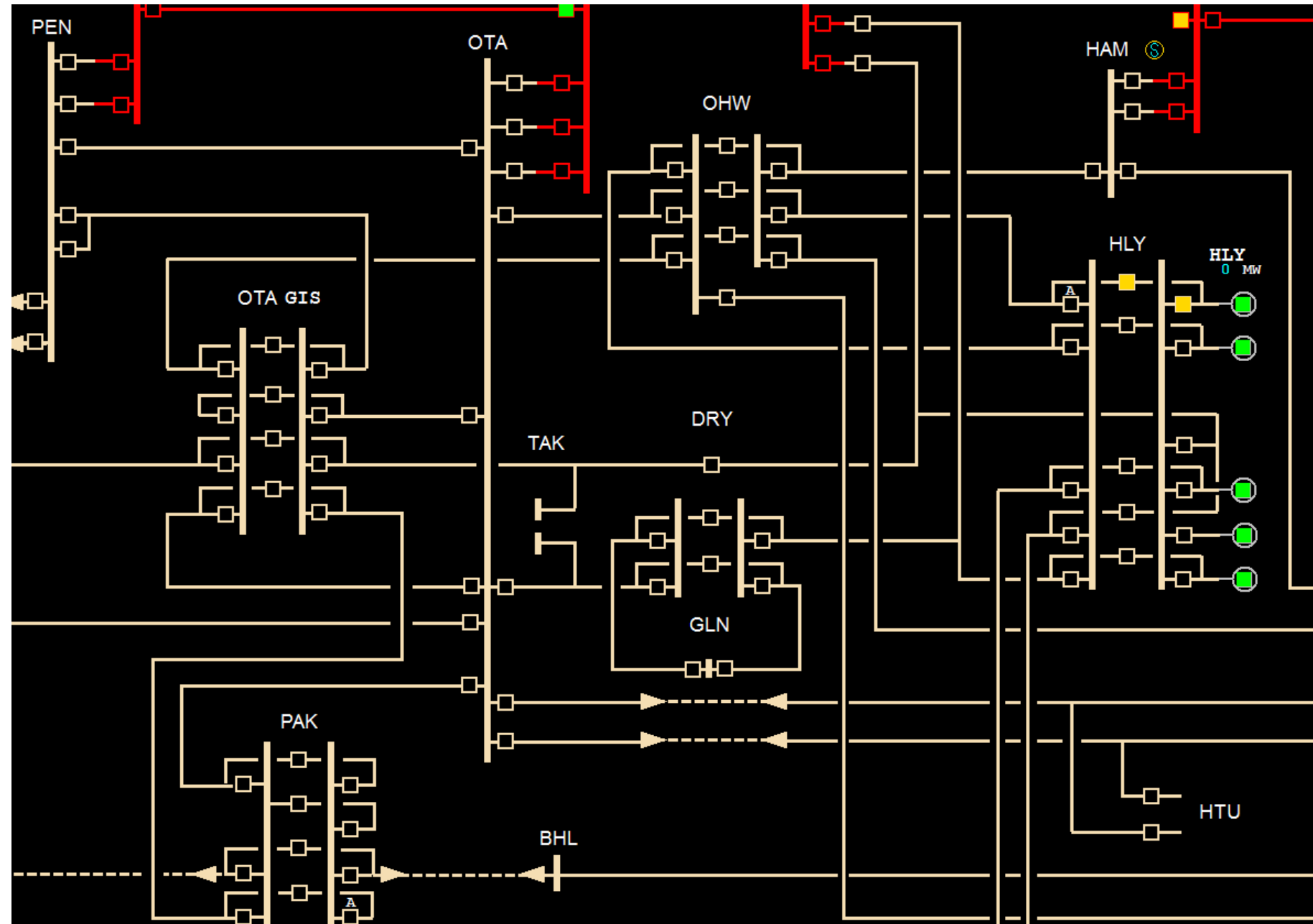
- EDG_T5
- EDG_KAW_1
- EDG_OWH_2
- OTA_ROS_2
- MDN_MPE_2

Week of 14 September

- EDG_T5
- MNG_ROS_1
- OHW_OTA_1
- DRY_TAK_OTA_1
- HEN_HPI_1 / BRB_HPI_1

Week of 21 September

- EDG_T5
- OHW_OTA_1
- DRY_TAK_OTA_2
- OTA_ROS_1
- EDG_KAW_1 / EDG_KAW_2



SNI Outages

Week of 31 August

- BPE_MTN_WGN_1
- FHL_TUI_1

Week of 7 September

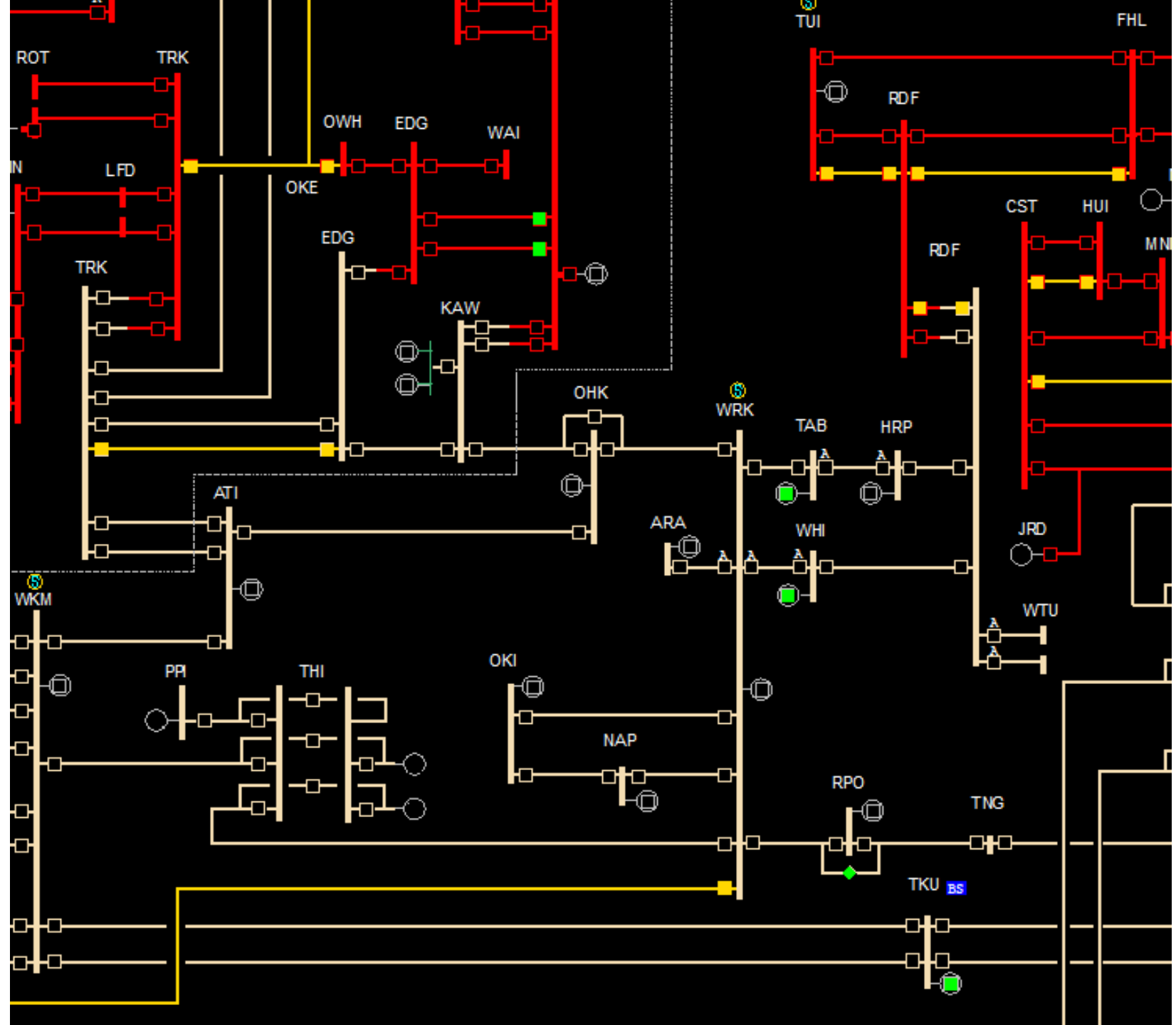
- BPE_MTN_WGN_1
- BRK_SFD_3

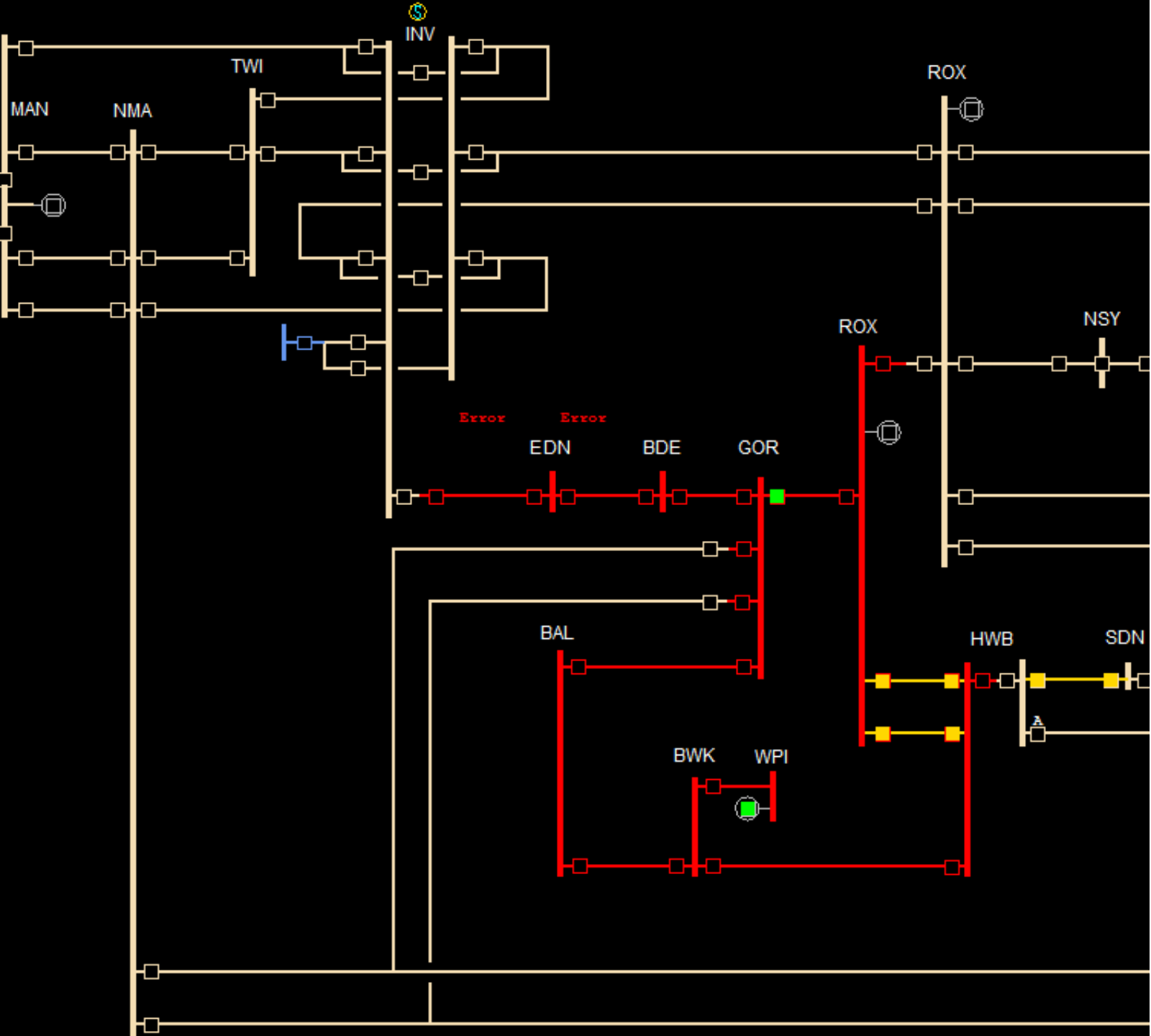
Week of 14 September

- BPE_MTN_WGN_1
- BRK_SFD_3
- BPE_TNG_1

Week of 21 September

- BPE_MTN_WGN_1
- BRK_SFD_3





SI Outages

Week of 31 August

- MAN_NMA_1
- GOR_ROX_1
- DOB_RFN_IGH_1
- ISL_TKB_1

Week of 7 September

- DOB_RFN_IGH_1
- ISL_NWD_1
- KIK_STK_3
- NMA_GOR_TMH_2

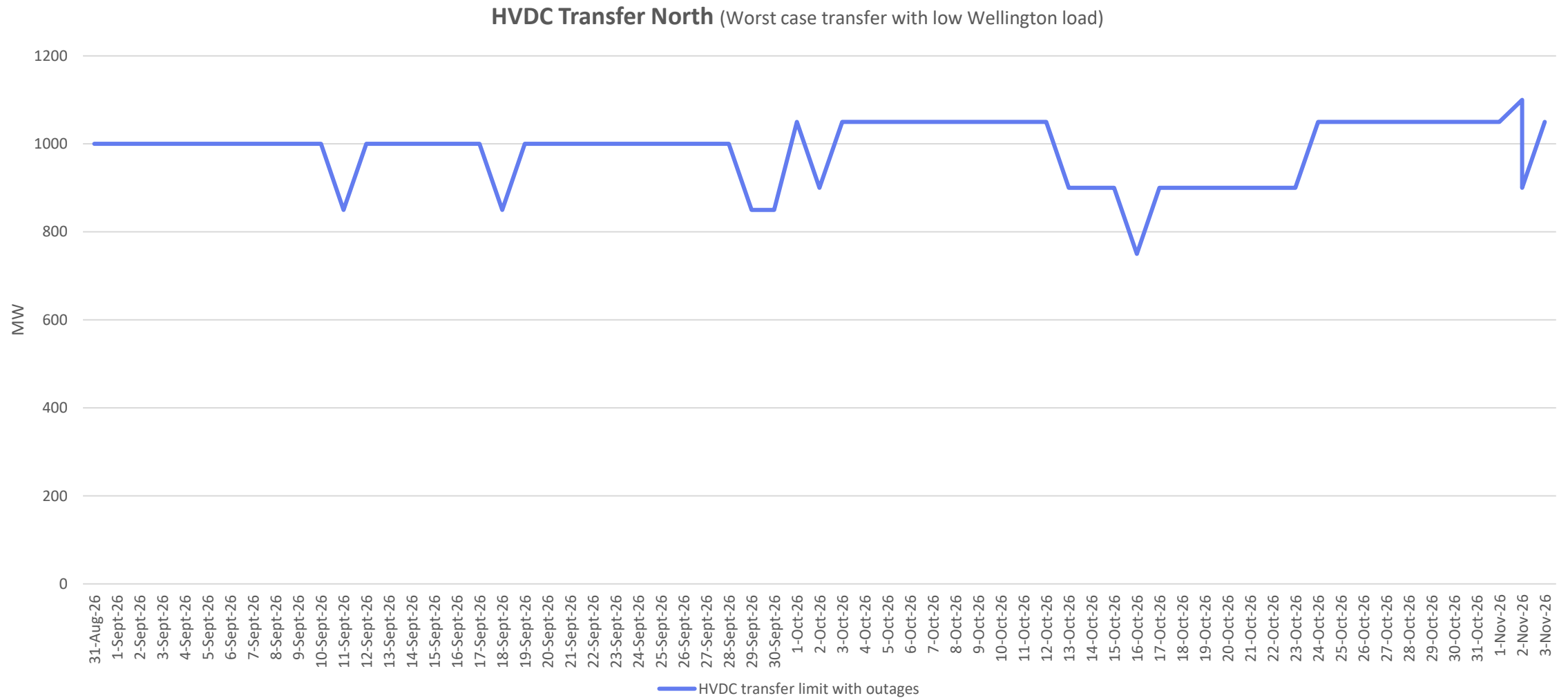
Week of 14 September

- DOB_RFN_IGH_1
- ISL_SBK_1 / ISL_SBK_2
- ISL_KIK_1
- AVI_BEN_1
- INV_ROX_1

Week of 21 September

- DOB_RFN_IGH_1
- ISL_SBK_1 / ISL_SBK_2
- AVI_BEN_1
- ISL_NWD_1

HVDC North transfer limit

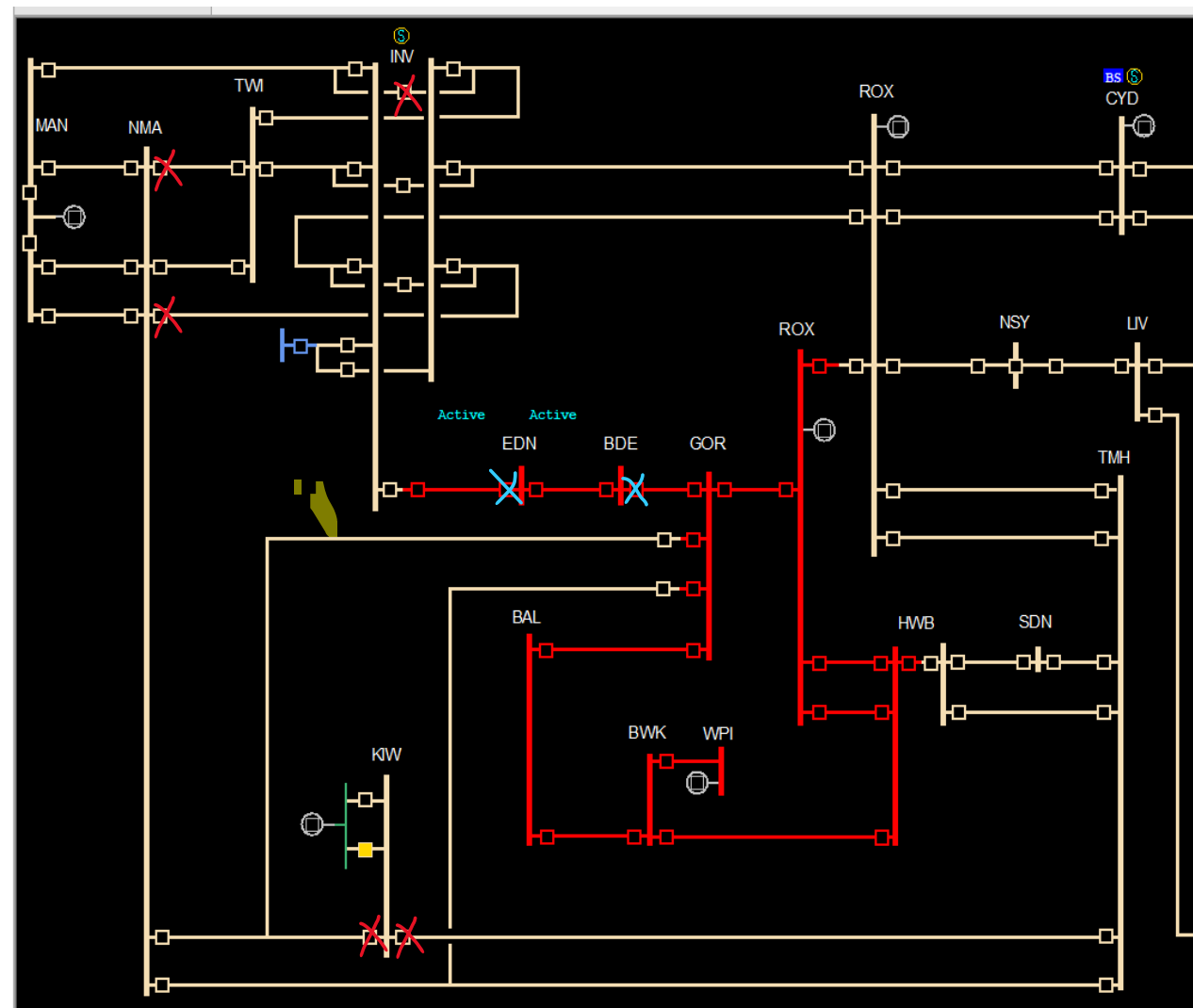




Operational update

Lower South Island Grid Emergency – 23 August 2026

- Possible cause (TBC): A severe lightning strike near the Invercargill substation at about 11:24.
- Multiple circuits tripped throughout the lower South Island with significant load and generation loss.
- Loss of approximately 889 MW generation including all of MAN.
- Loss of approximately 500-550 MW of load including a significant portion of TWI load and Interruptible Load.
- Frequency dropped to 49.17 Hz in the North Island and 48.07 Hz in the South Island.
- Grid Emergency declared at 11:52 and restoration of all supply initiated.
- Grid Emergency ended at 12:27, with final instruction to restore load at 12:23.



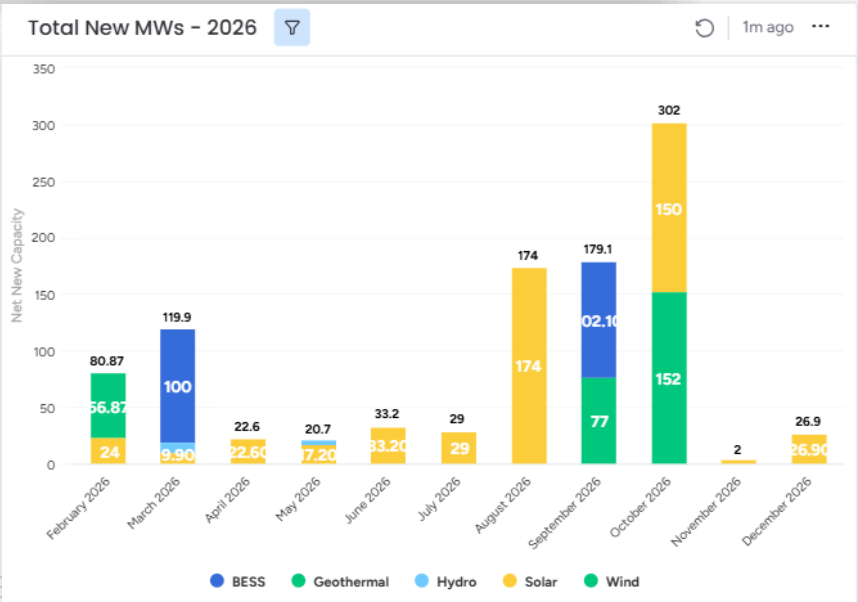
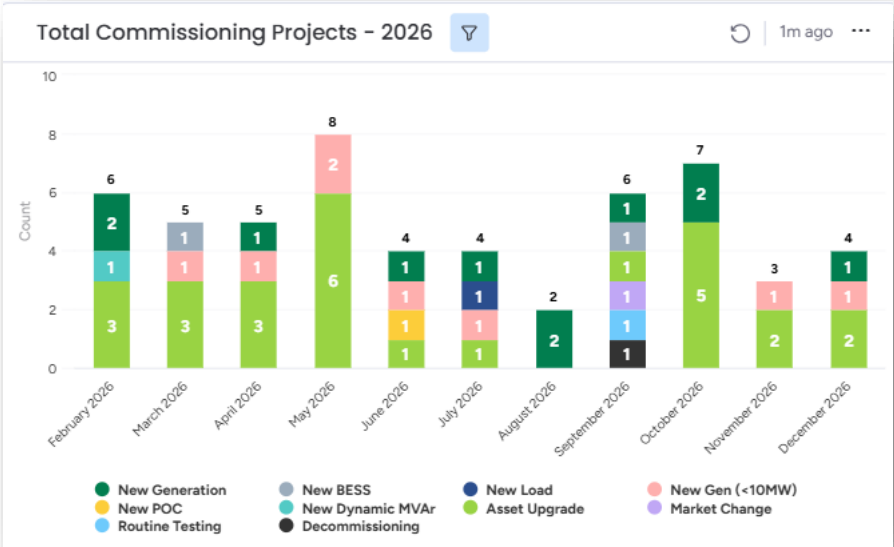


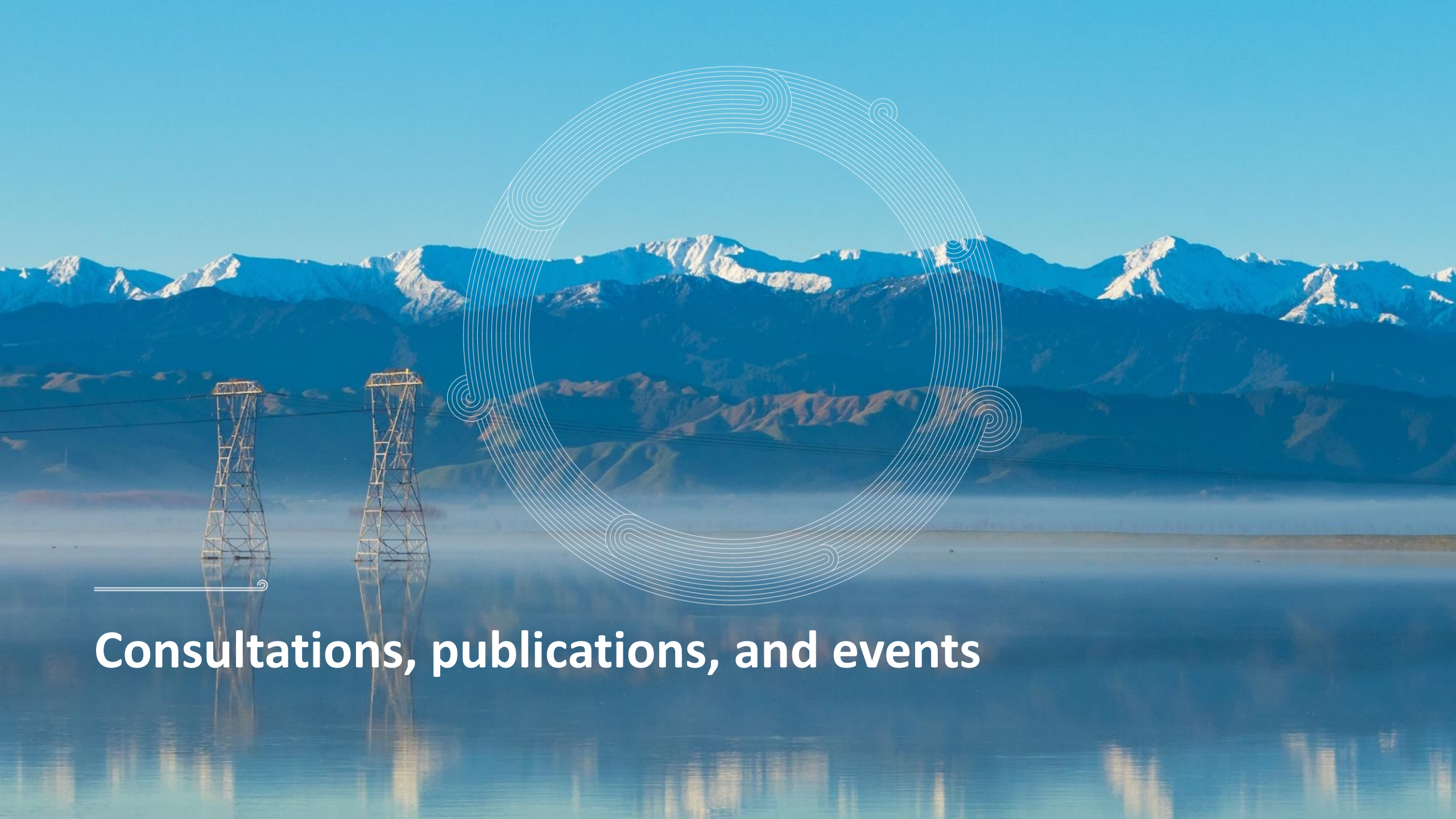
Commissioning update

Commissioning, routine testing & upgrade projects

Currently Commissioning: 6
Commissioning & Testing Projects for 2026: 47

Commissioning					
☐	Project		Project Type	Project Description	Stage
☐	KWE - Kaiwera Downs 2	15	New Generation	New Wind Farm connecting to Transpower Grid	Commissioning
☐	TAH - Tauhei Solar Farm	20	New Generation	New Solar Farm connecting to Transpower Grid	Commissioning
☐	Matua Solar Farm	11	New Gen (<10MW)	Small Solar Farm in Auckland	Commissioning
☐	HLY - U11 BESS	20	New BESS	New 100MW BESS by Genesis in Huntly	Commissioning
☐	KWK - Kaiwaikawe Wind Farm	22	New Generation	New Mercury Wind Farm	Commissioning
☐	KPS - Kowhai Park Solar Farm	22	New Generation	New embedded JV Solar Farm at Christchurch Airport	Commissioning





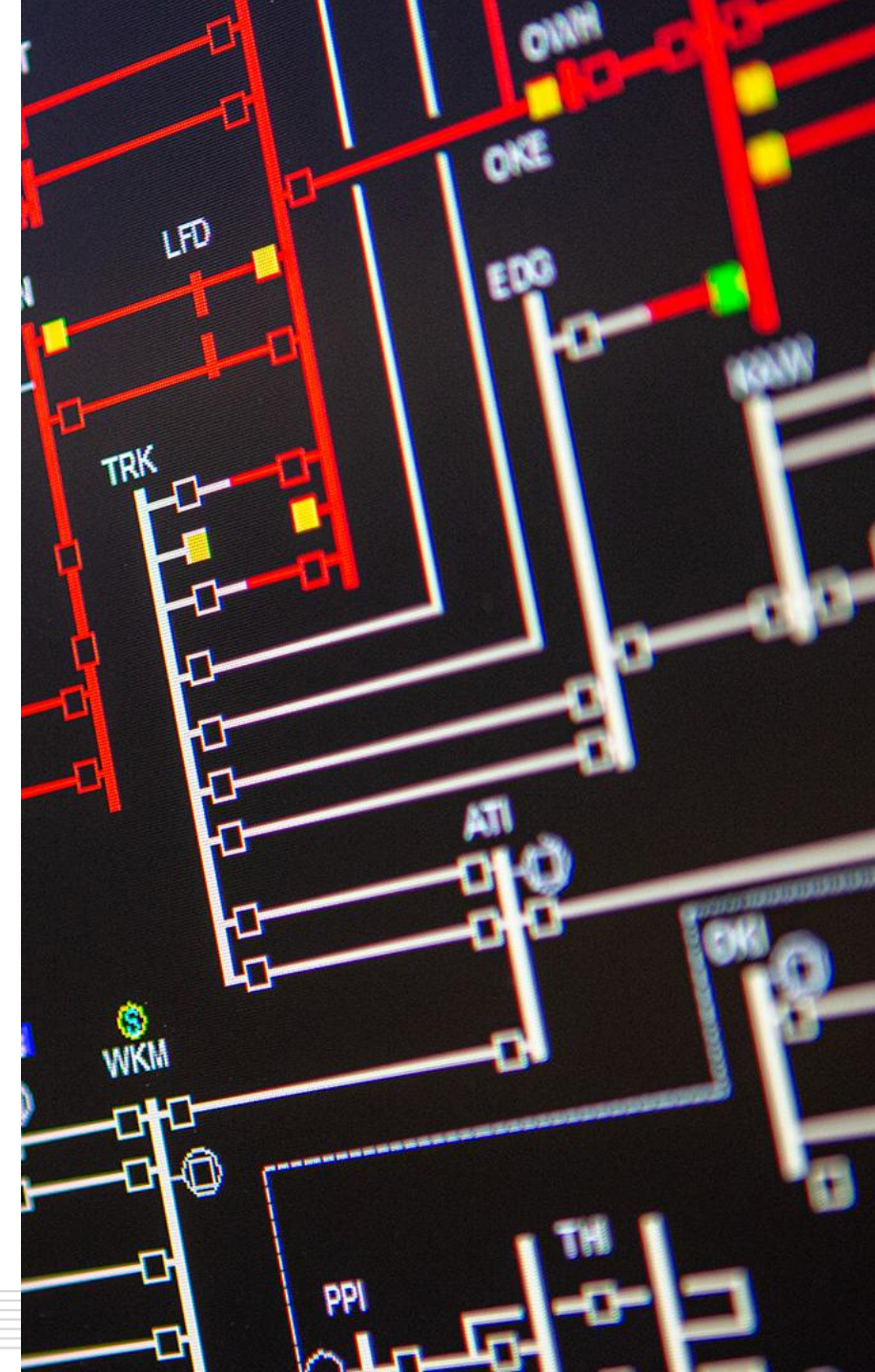
Consultations, publications, and events

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We will publish the latest [Quarterly Security of Supply Outlook](#) on our website this week.

Our [MFK Trial](#) commences from next Tuesday 1 September, further information is available on our website or contact us at system.operator@transower.co.nz.

On 15 September we are holding a **Controllable Load information forum** to discuss changes introduced by the CACTIS. Invites will be sent out this week.



Questions / Pātai



Please raise your hand

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

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