



Thursday, 16 February 2023

Issue: 1348

A weekly summary relating to New Zealand hydro storage and inflows.

Compiled by Energy Link Ltd.

Storage Summary	South Island Controlled	South Island Uncontrolled	South Island Total	North Island Taupo	Total Storage
Current Storage (GWh)	2624	305	2930	522	3451
Storage Change (GWh)	-36	-54	-90	-46	-137

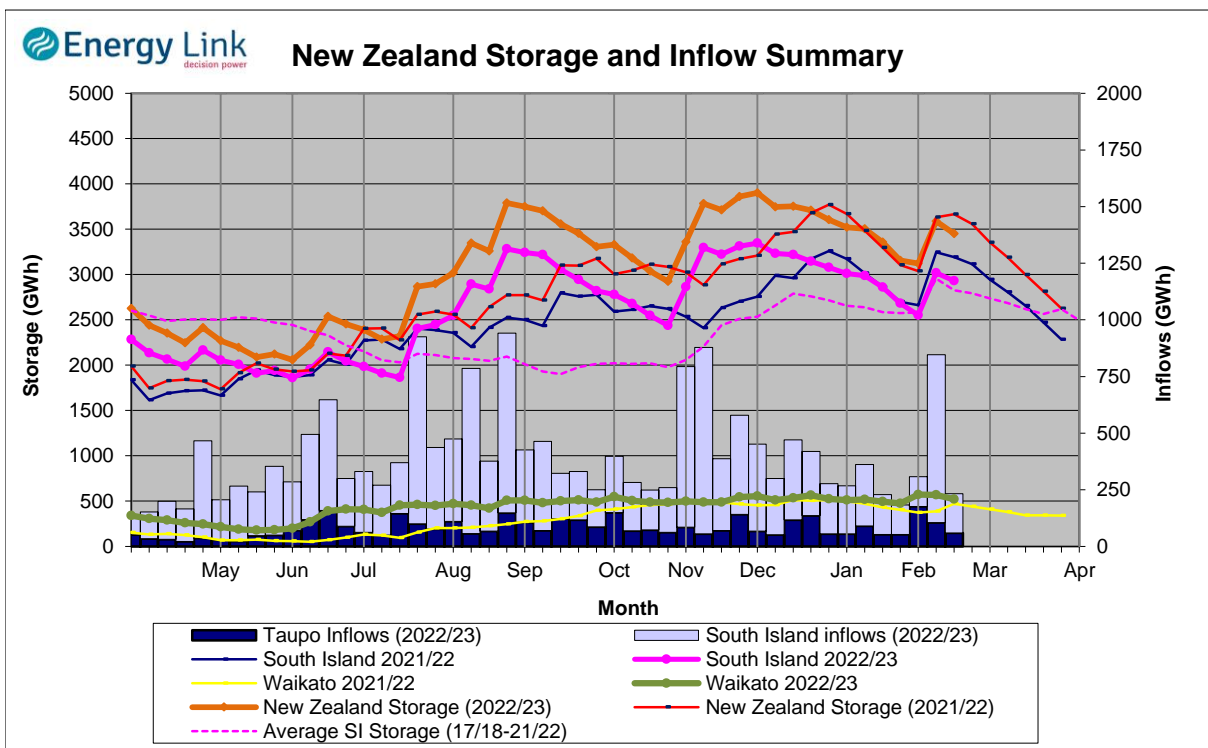
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2835	522	3357

Note: These figures are provided to align with Transpower's Security of Supply information. However due to variances in generation efficiencies and timing, storage may not exactly match Transpower's figures.

New Zealand Summary

Total storage decreased 136.6 GWh over the last week. South Island controlled storage decreased 1.3% to 2624 GWh; South Island uncontrolled storage decreased 15.1% to 305 GWh; with Taupo storage decreasing 8.2% to 522 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	211	334	2384	522	3451
Last Week	231	370	2419	568	3588
% Change	-8.5%	-9.7%	-1.4%	-8.2%	-3.8%
Inflow (GWh)					
This Week	28	30	116	60	233
Last Week	169	146	425	105	846
% Change	-83.7%	-79.6%	-72.7%	-43.4%	-72.5%

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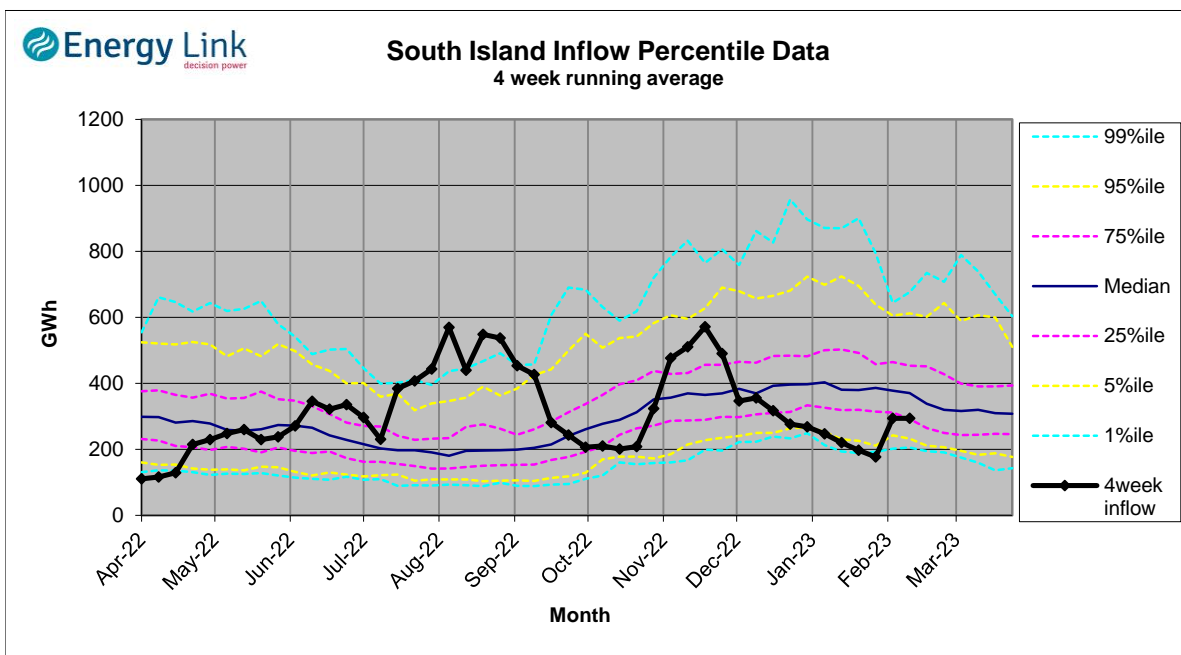
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.31	85	28	11
	Te Anau	201.70	126		
Clutha	Wakatipu	309.74	37	158	21
	Wanaka	277.23	57	241	
	Hawea	344.54	240	22	
Waitaki	Tekapo	709.69	767		36
	Pukaki	530.82	1617		
Waikato	Taupo	357.13	522		-60

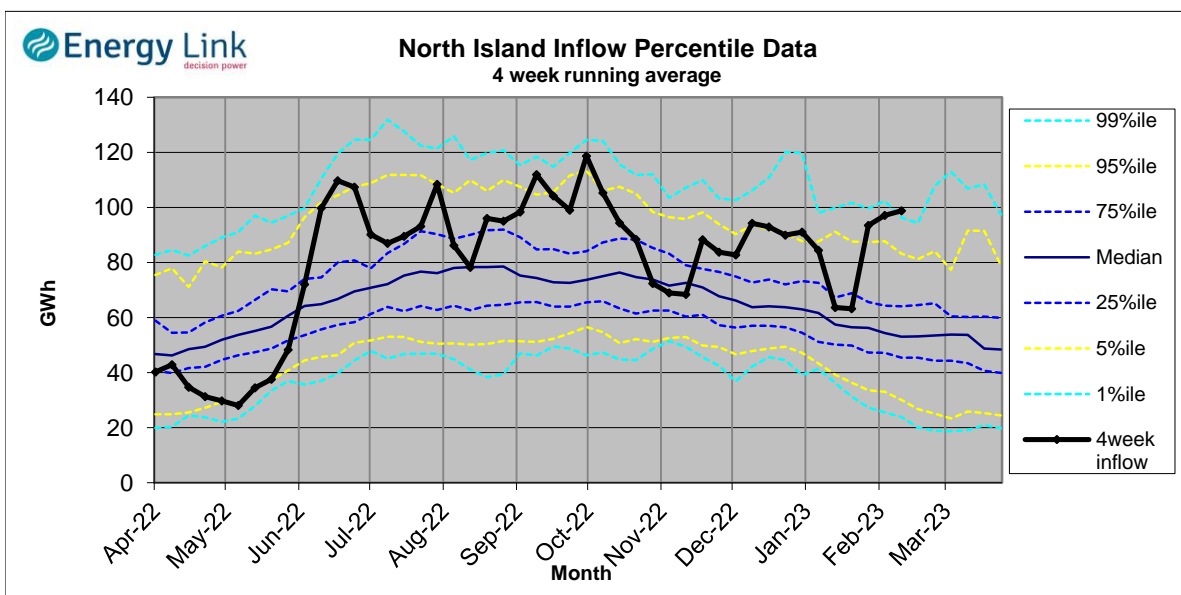
Inflow Summary

The two charts below represent where current inflows are in relation to historic inflow patterns. The percentile values have been calculated using all inflows since 1931.

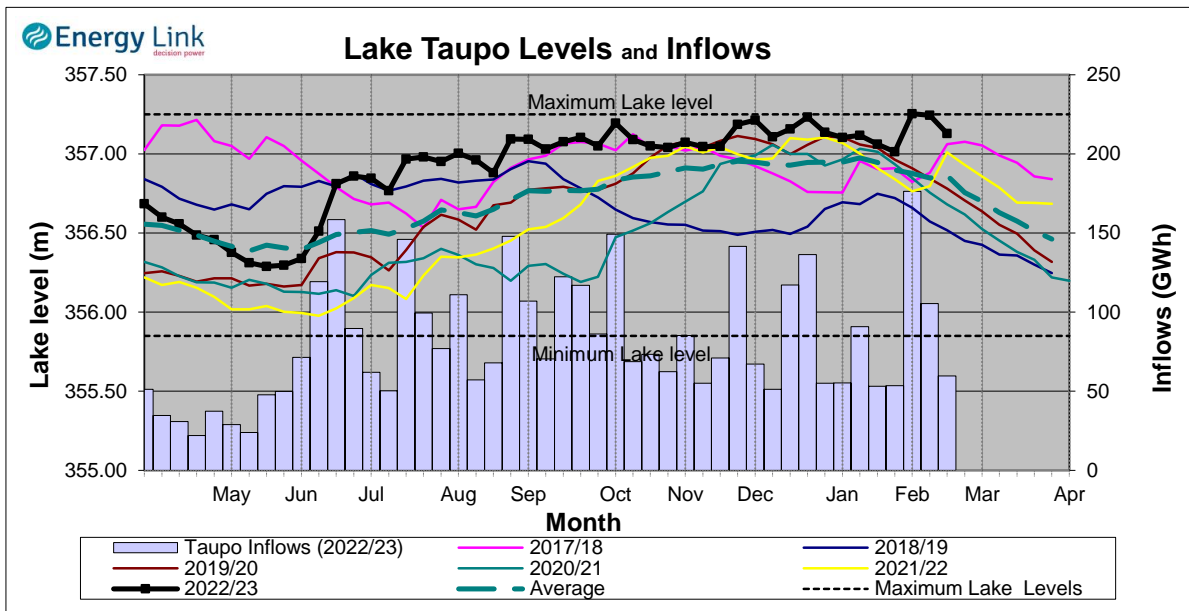
South Island Inflows - The past four weeks of S. I. inflows rank as the 25th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the wettest on record.



Waikato System

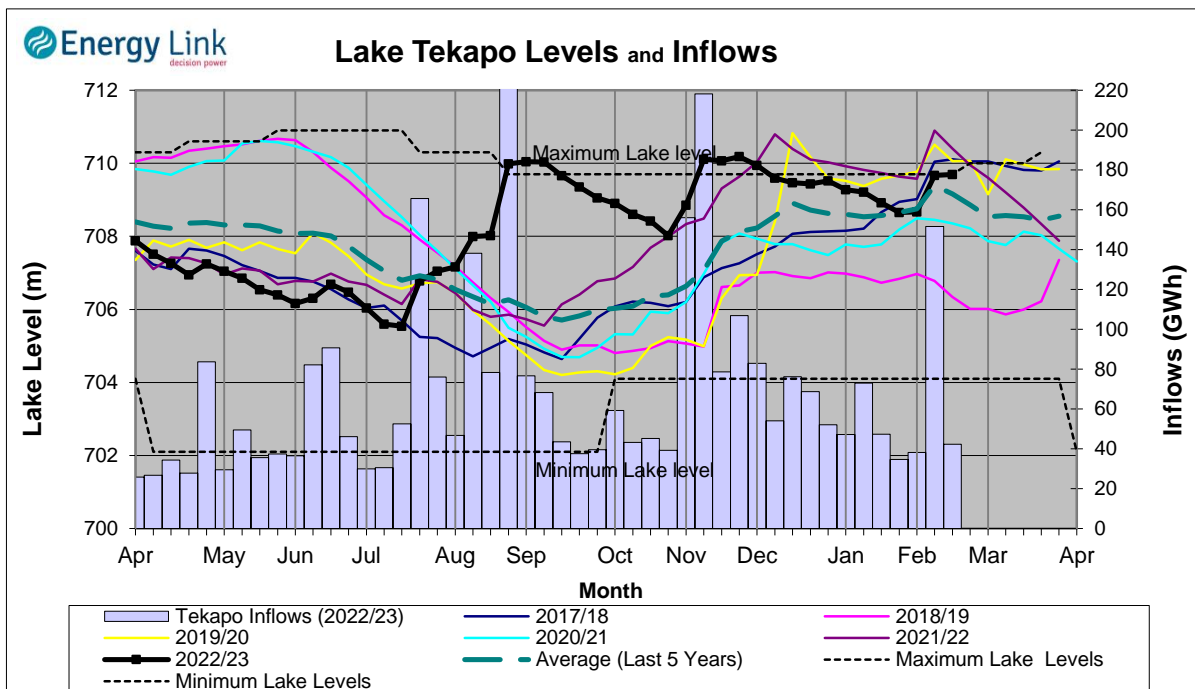


Lake Levels - Lake Taupo storage fell to 91.4% of nominal full at 522 GWh.

Inflows - Inflows decreased 43.4% to 60 GWh.

Generation - Average generation decreased 6.2% to 607 MW.

Tekapo



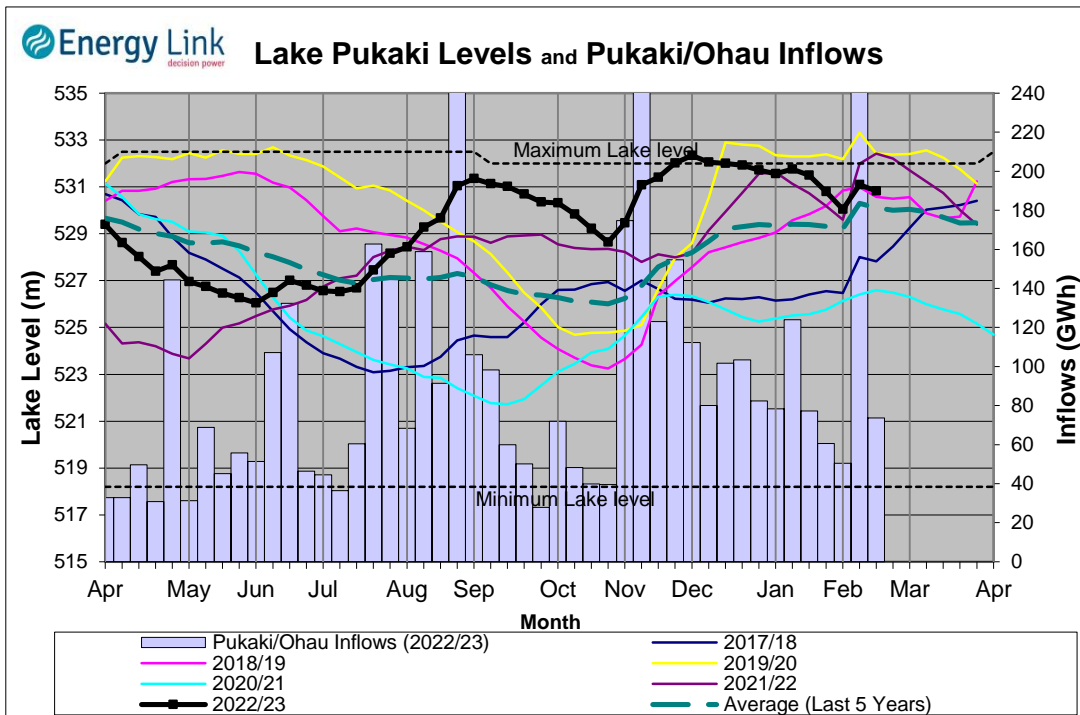
Lake Levels - Lake Tekapo ended the week 106% nominally full with storage increasing to 767 GWh.

Inflows - Inflows into tekapo decreased 72.1% to 42 GWh.

Generation - Average Tekapo generation decreased 5.9% to 87.1 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 91% nominally full with storage falling to 1617 GW

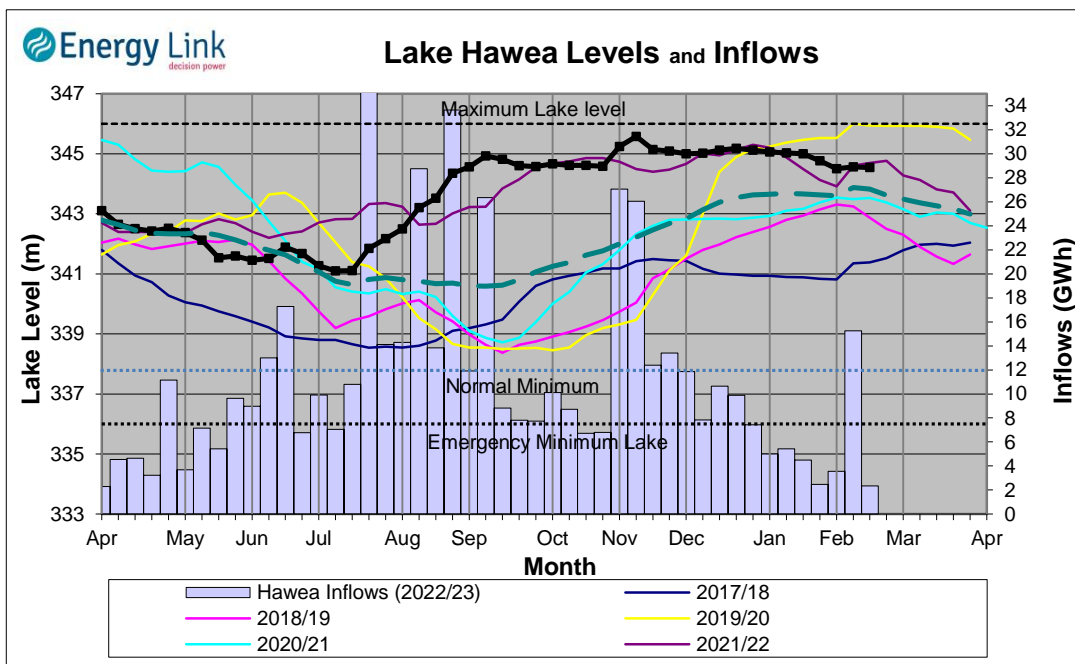
Inflows - Inflows into the Waitaki System decreased 73.1% to 74 GWh.

Generation - Average Waitaki generation decreased 10.4% to 912 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 15.1 cumecs while Waitaki River flows were lower than last week averaging 379.2 cumecs.

Clutha System



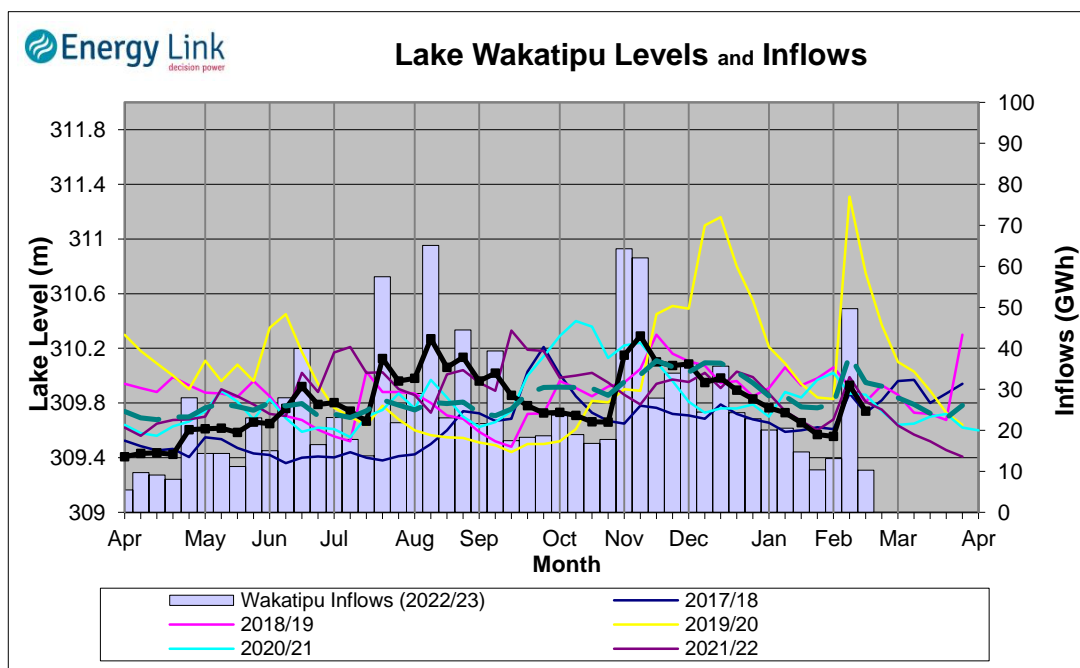
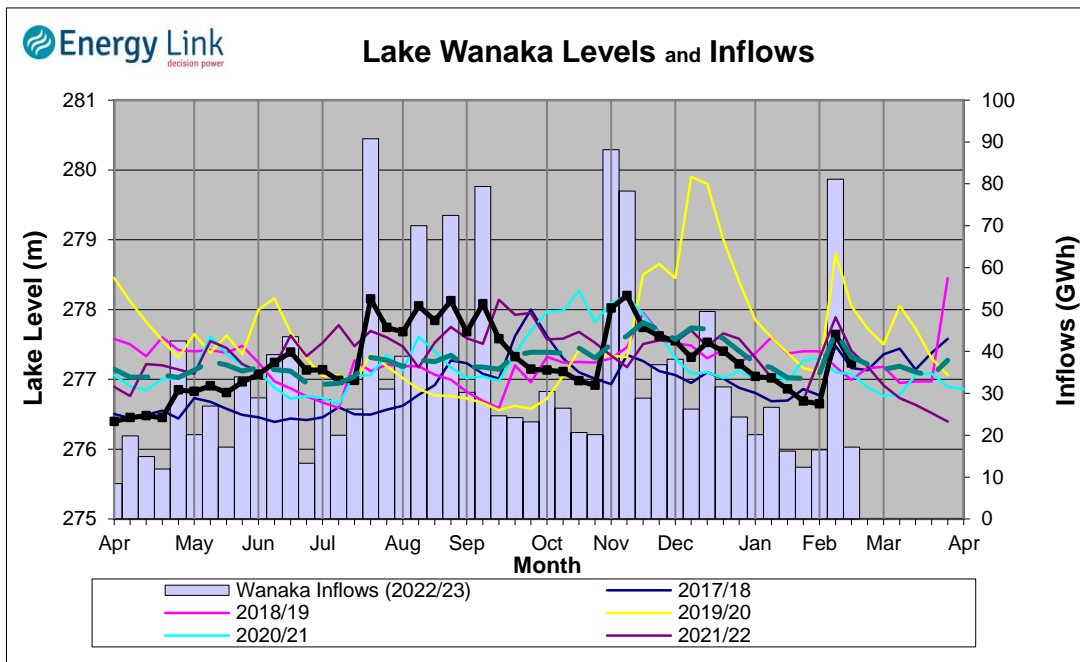
Lake Levels - Total storage for the Clutha System decreased 9.7% to 334 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 81.3%, 49.9% and 35% nominally full respectively.

Inflows - Total Inflows into the Clutha System 79.6% lower at 30 GWh.

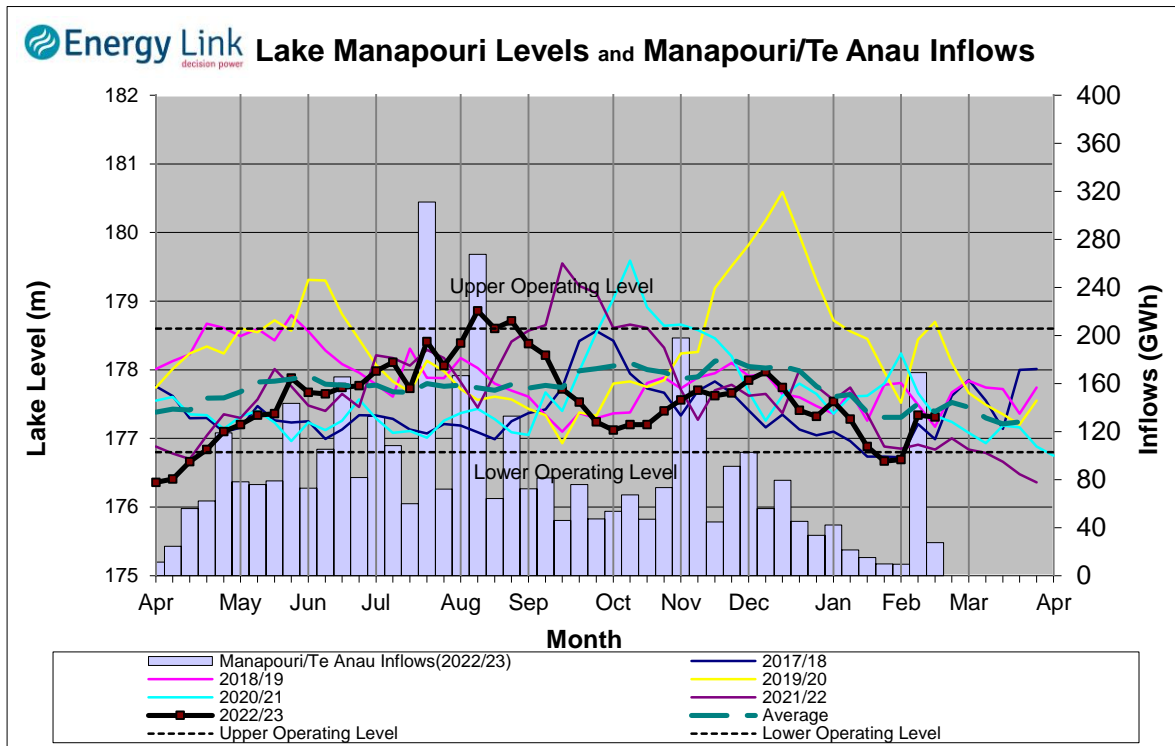
Generation - Average generation was remained steady at 406 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 440.5 cumecs. This comprised of 22 cumecs from Lake Hawea, 241 cumecs from Lake Wanaka, 158 cumecs from Lake Wakatipu and 20 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 8.5% to 211 GWh with Lake Manapouri ending the week 52.6% nominally full and Lake Te Anau ending the week 45.7% nominally full.

Inflows - Total inflows into the Manapouri System decreased 83.7% to 28 GWh.

Generation - Average generation was 48.5% higher at 282 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 27.9 cumecs.

Operating Range - Lakes Manapouri and Te Anau are operating in the lower end of their respective 'Main operating range'.

