



Thursday, 29 June 2023

Issue: 1367

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)	2656	421	3077	363	3441
Storage Change (GWh)	-96	-77	-173	-2	-175

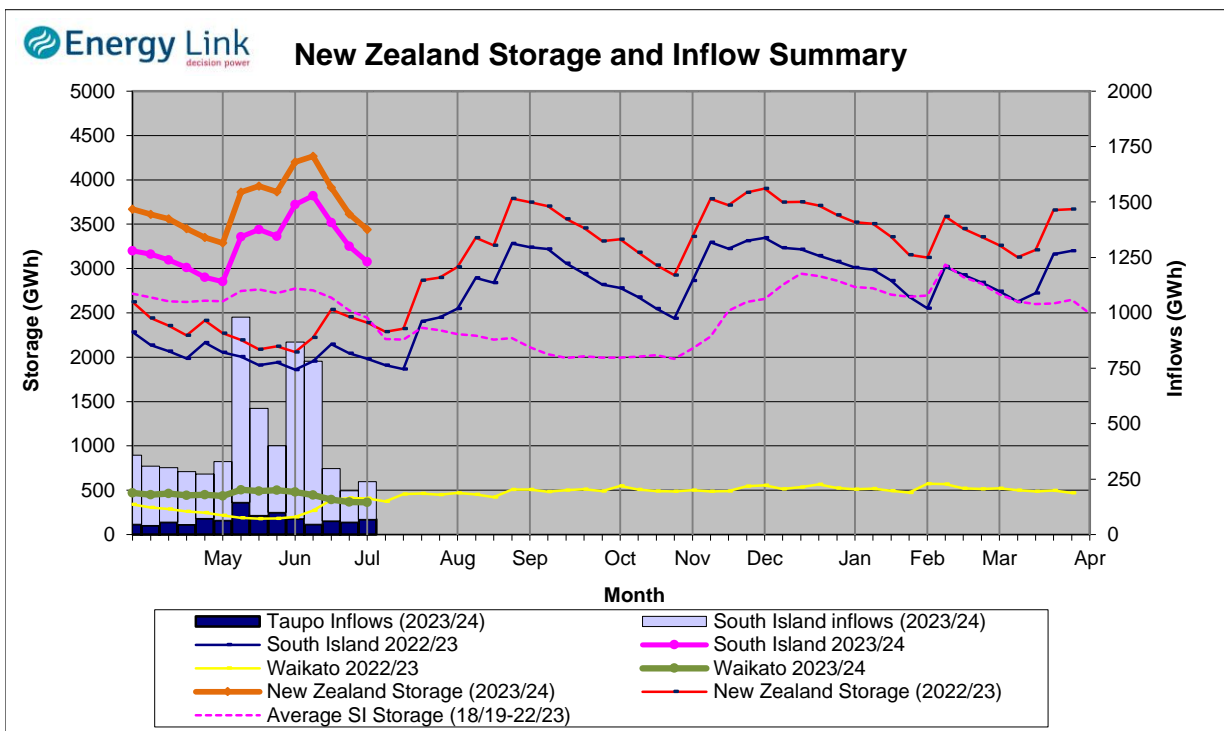
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2985	363	3349

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 174.9 GWh over the last week. South Island controlled storage decreased 3.5% to 2656 GWh; South Island uncontrolled storage decreased 15.5% to 421 GWh; with Taupo storage decreasing 0.6% to 363 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	329	292	2456	363	3441
Last Week	394	327	2529	365	3615
% Change	-16.5%	-10.6%	-2.9%	-0.6%	-4.8%
Inflow (GWh)					
This Week	51	47	72	68	238
Last Week	38	36	67	56	197
% Change	35.0%	29.9%	7.3%	21.9%	20.9%

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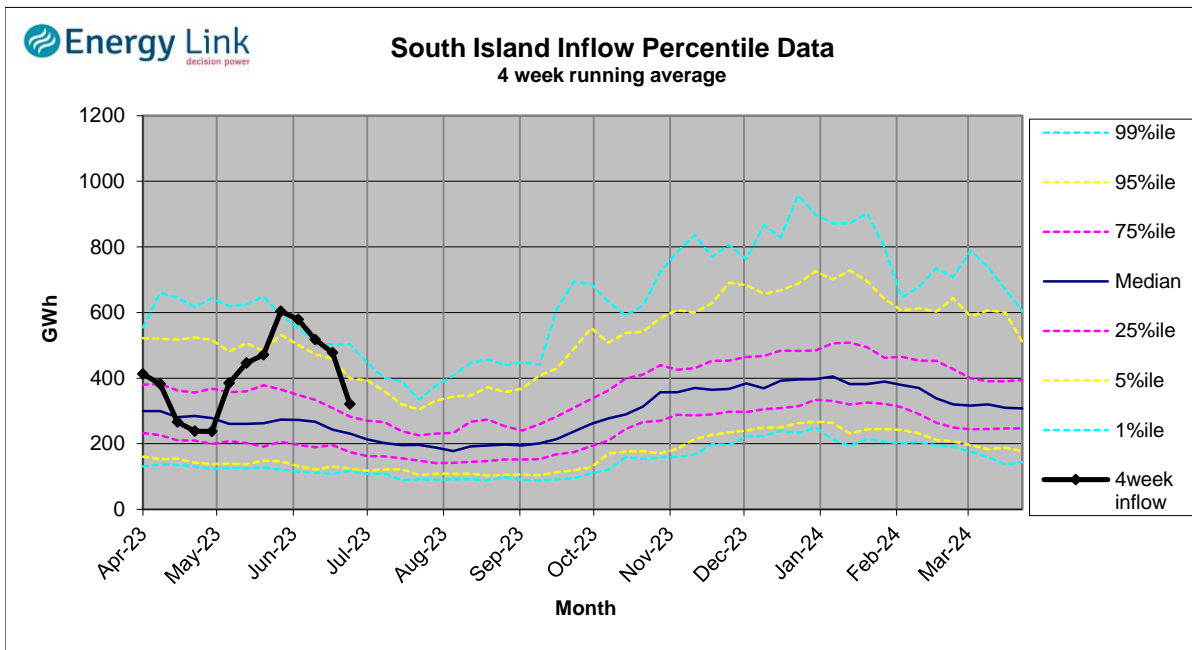
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.91	121	13	-38
	Te Anau	202.25	208		
Clutha	Wakatipu	309.75	37	143	-43
	Wanaka	277.18	55	190	
	Hawea	343.48	200	193	
Waitaki	Tekapo	709.75	773		-58
	Pukaki	531.30	1682		
Waikato	Taupo	356.74	363		81

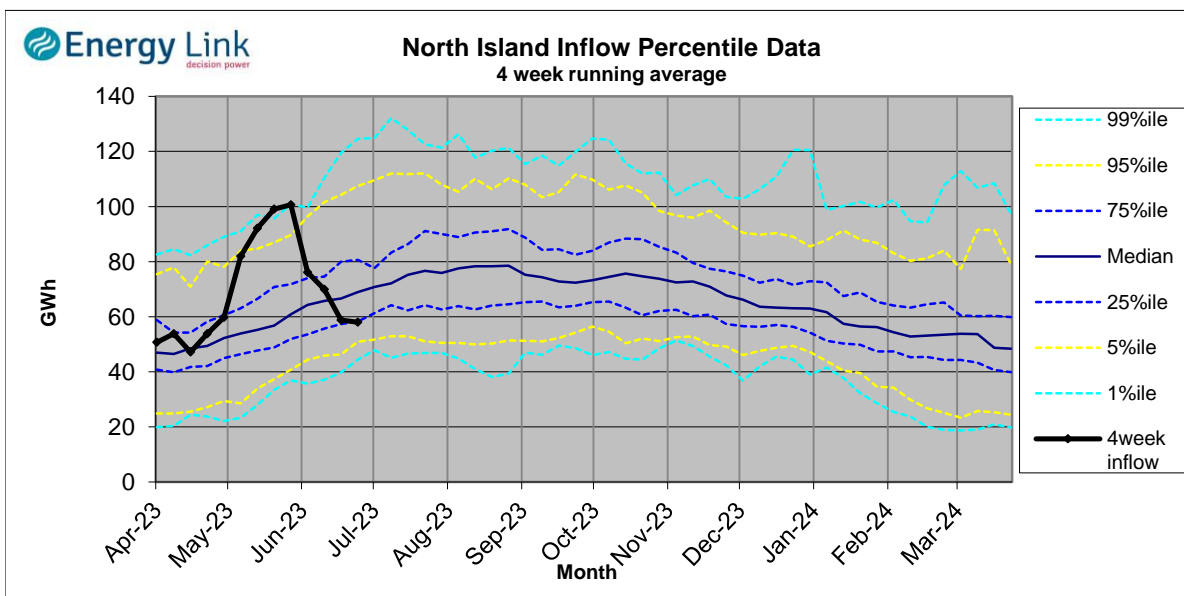
Inflow Summary

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.

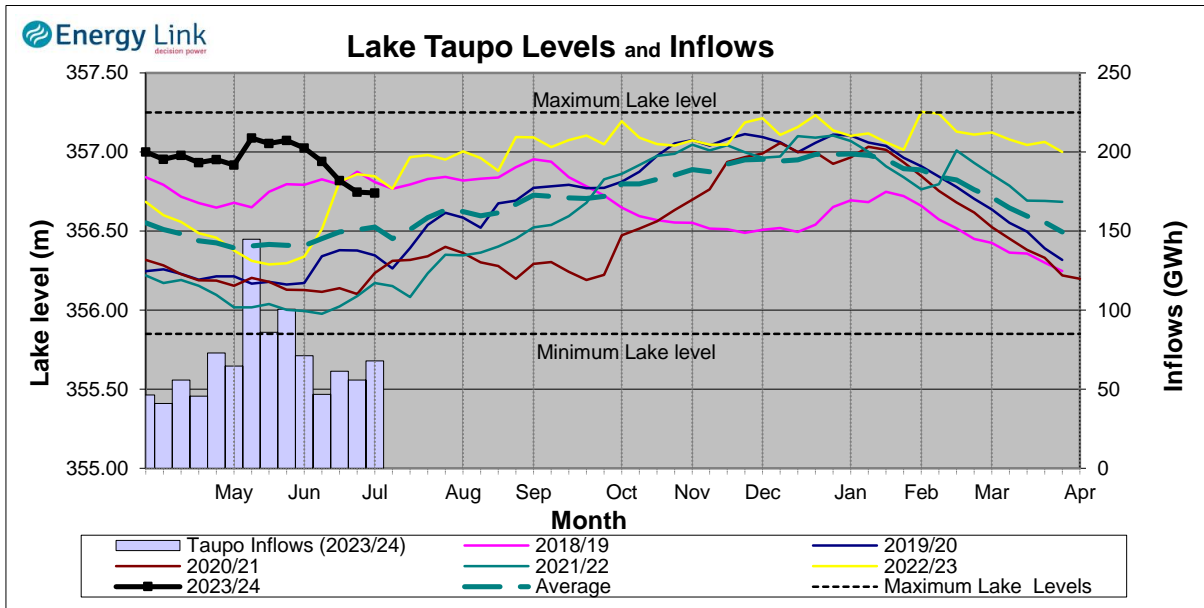
South Island Inflows - The past four weeks of S. I. inflows rank as the 16th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 23rd driest on record.



Waikato System

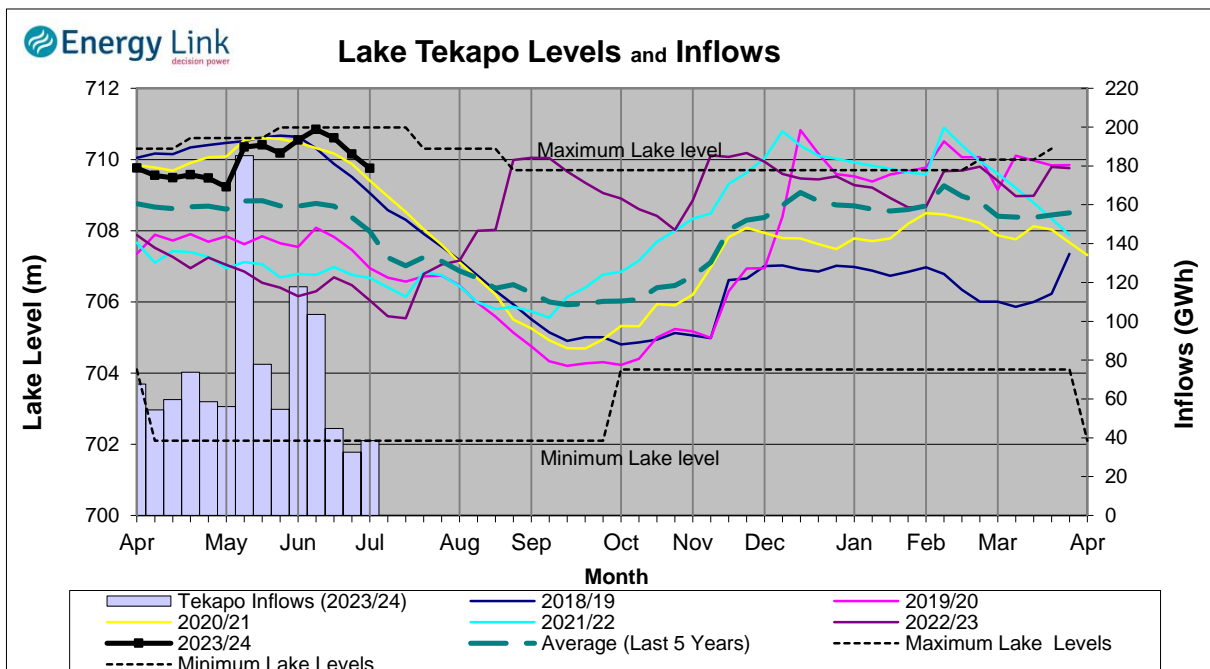


Lake Levels - Lake Taupo storage fell to 63.7% of nominal full at 363 GWh.

Inflows - Inflows increased 21.9% to 68 GWh.

Generation - Average generation decreased 8.5% to 504.7 MW.

Tekapo



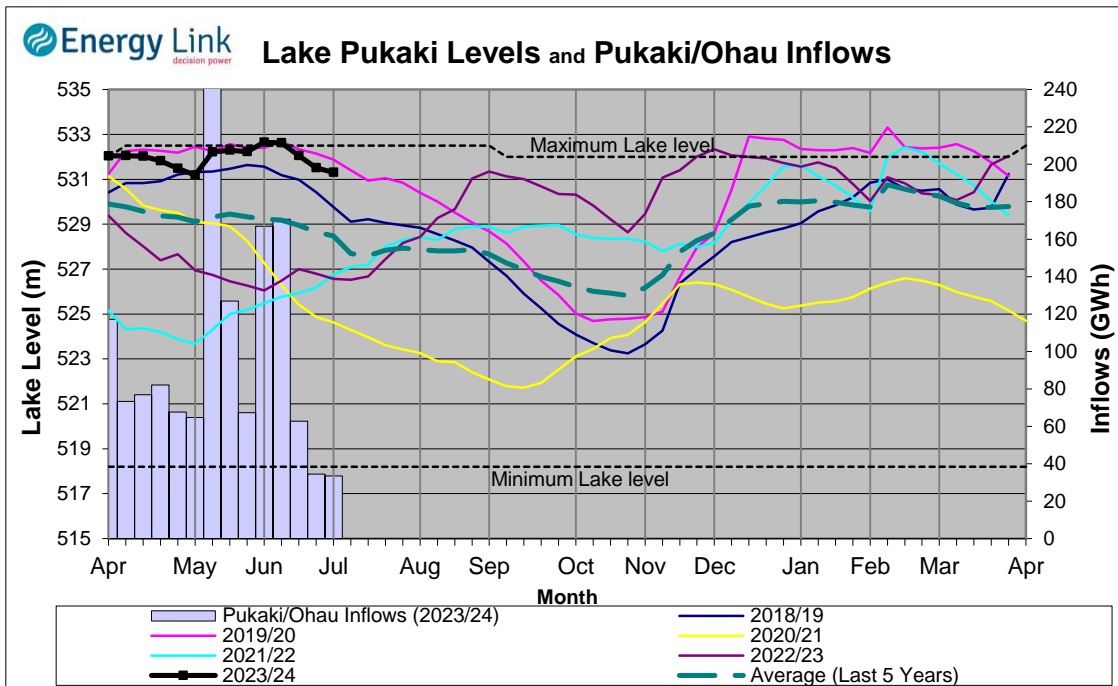
Lake Levels - Lake Tekapo ended the week 91% nominally full with storage falling to 773 GWh.

Inflows - Inflows into tekapo increased 18% to 38 GWh.

Generation - Average Tekapo generation remained steady at 177.8 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 91% nominally full with storage falling to 1682 GWh.

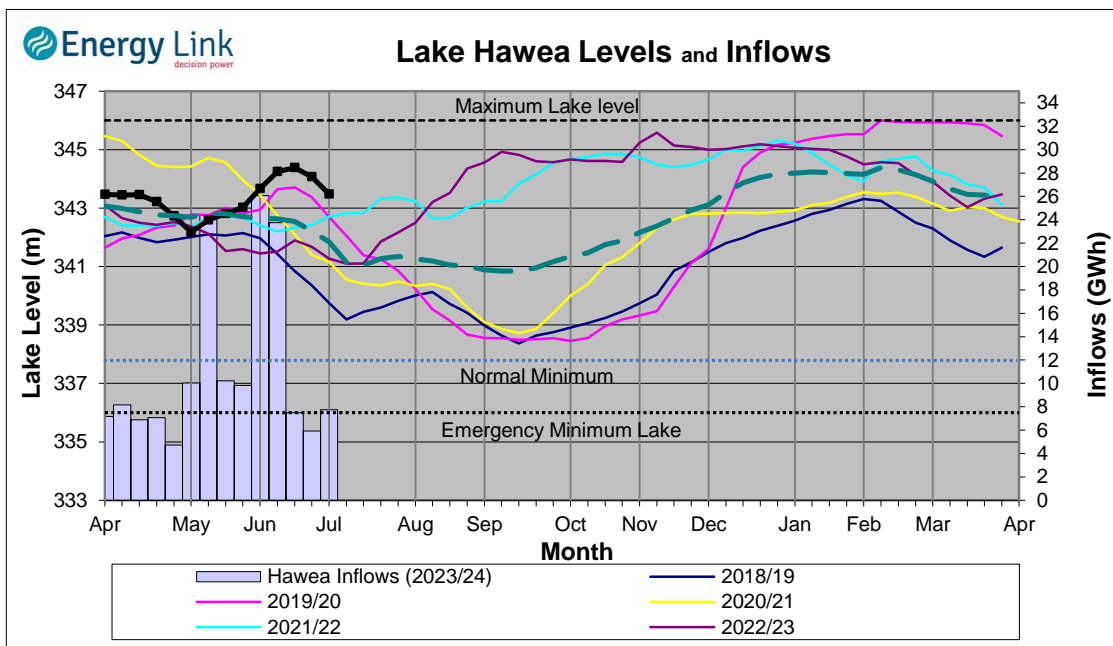
Inflows - Inflows into the Waitaki System remained steady at 34 GWh.

Generation - Average Waitaki generation decreased 27.1% to 794.7 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 21 cumecs while Waitaki River flows were lower than last week averaging 339.5 cumecs.

Clutha System



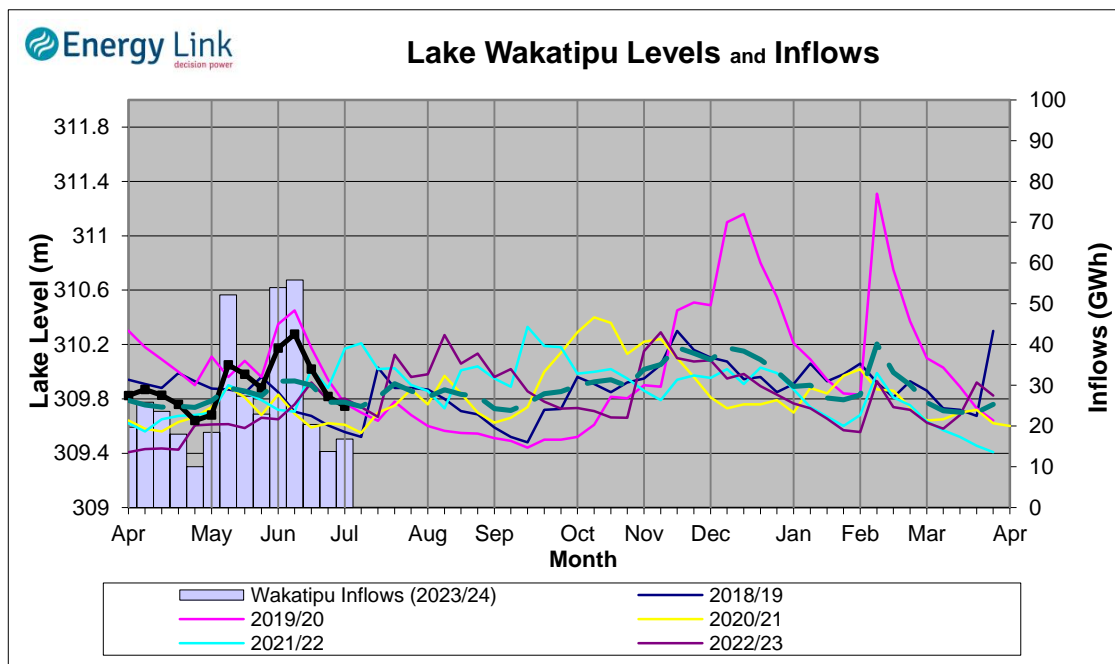
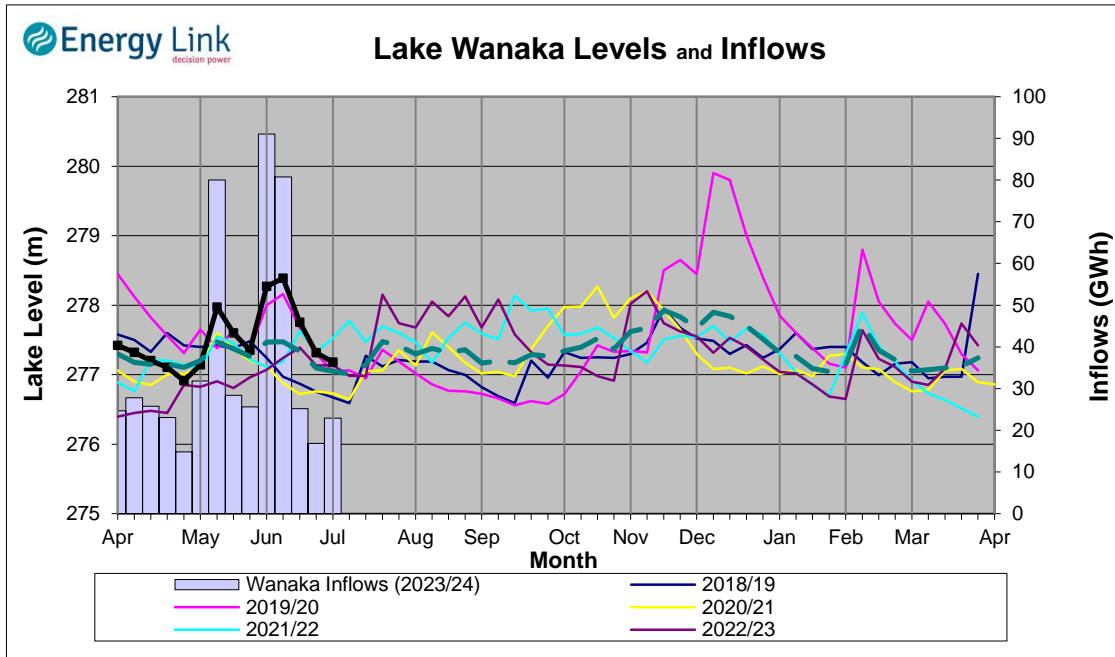
Lake Levels - Total storage for the Clutha System decreased 10.6% to 292 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 67.8%, 47.7% and 35.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 29.9% higher at 47 GWh.

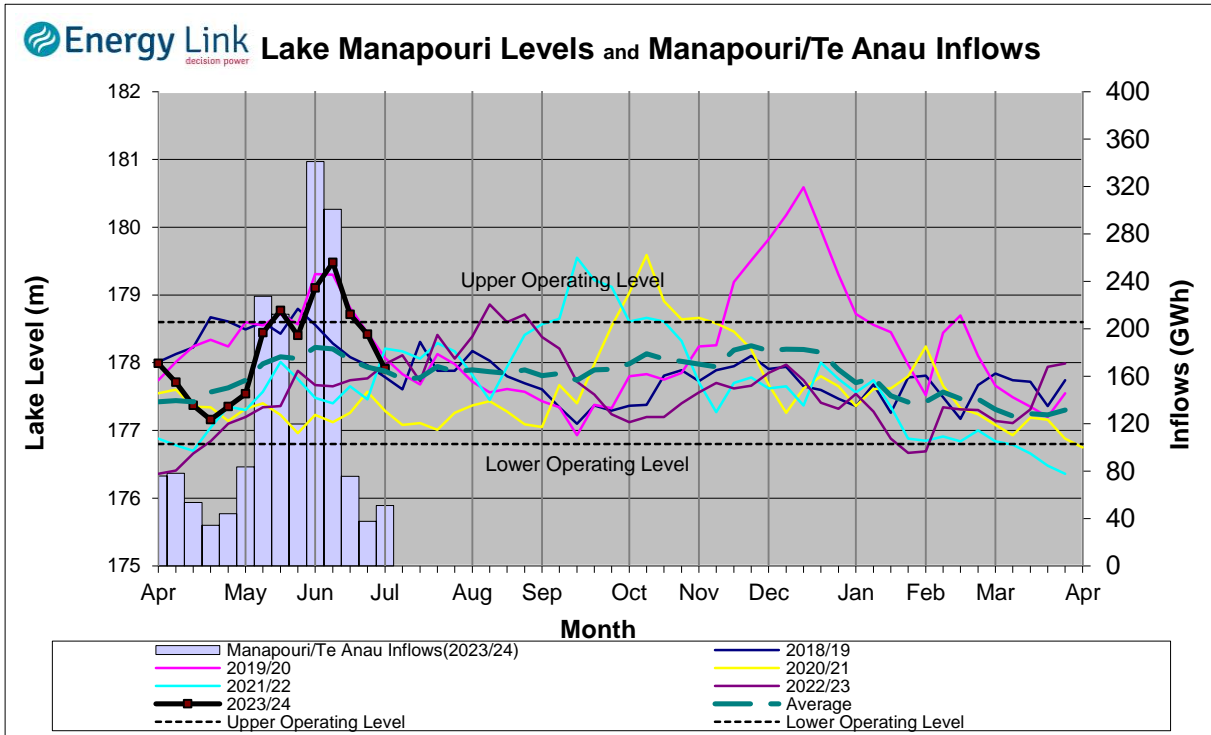
Generation - Average generation was 1.9% lower at 530 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 562.5 cumecs. This comprised of 193 cumecs from Lake Hawea, 190 cumecs from Lake Wanaka, 143 cumecs from Lake Wakatipu and 37 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 16.5% to 329 GWh with Lake Manapouri ending the week 74.6% nominally full and Lake Te Anau ending the week 75.5% nominally full.

Inflows - Total inflows into the Manapouri System increased 35% to 51 GWh.

Generation - Average generation was 5.9% lower at 689 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 12.7 cumecs.

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

