



Thursday, 06 April 2023

Issue: 1355

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)	2736	424	3161	450	3611
Storage Change (GWh)	-22	-17	-39	-19	-58

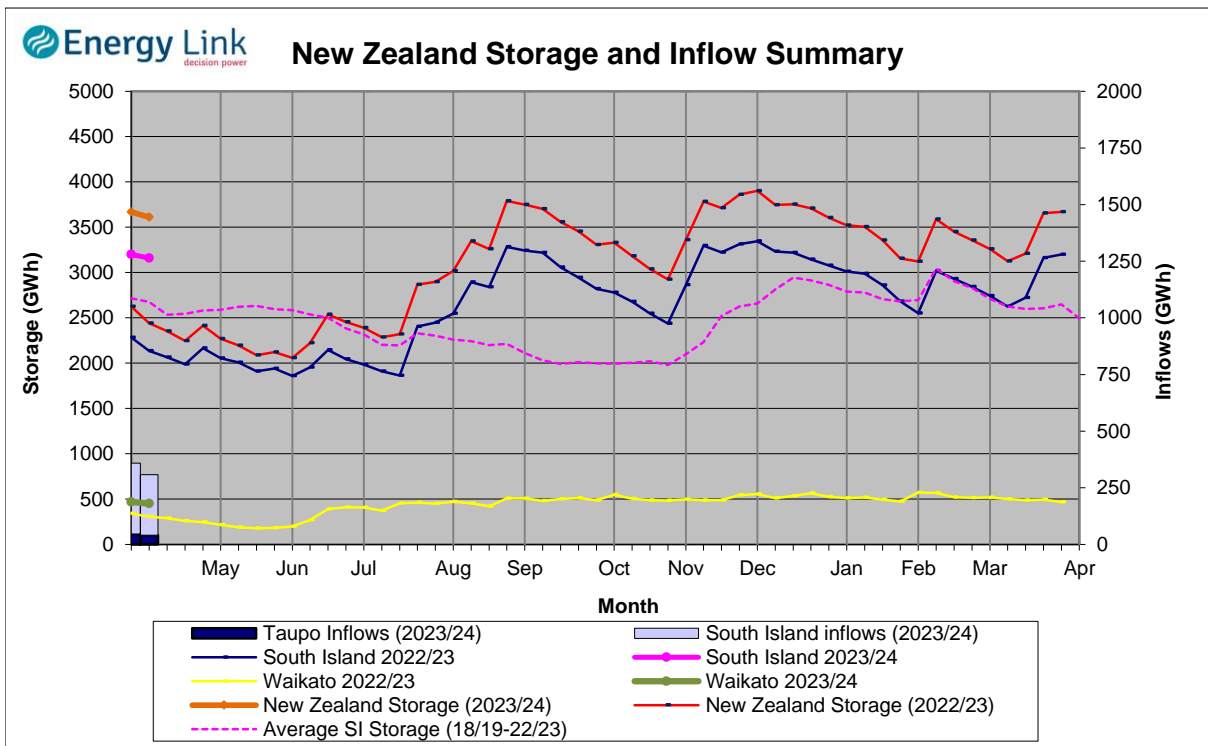
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3052	450	3503

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 57.9 GWh over the last week. South Island controlled storage decreased 0.8% to 2736 GWh; South Island uncontrolled storage decreased 3.8% to 424 GWh; with Taupo storage decreasing 4.1% to 450 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	316	308	2537	450	3611
Last Week	331	310	2558	469	3669
% Change	-4.6%	-0.8%	-0.8%	-4.1%	-1.6%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
<b>This Week</b>	78	62	128	41	308
Last Week	76	52	185	46	359
% Change	3.0%	19.9%	-30.9%	-11.7%	-14.0%

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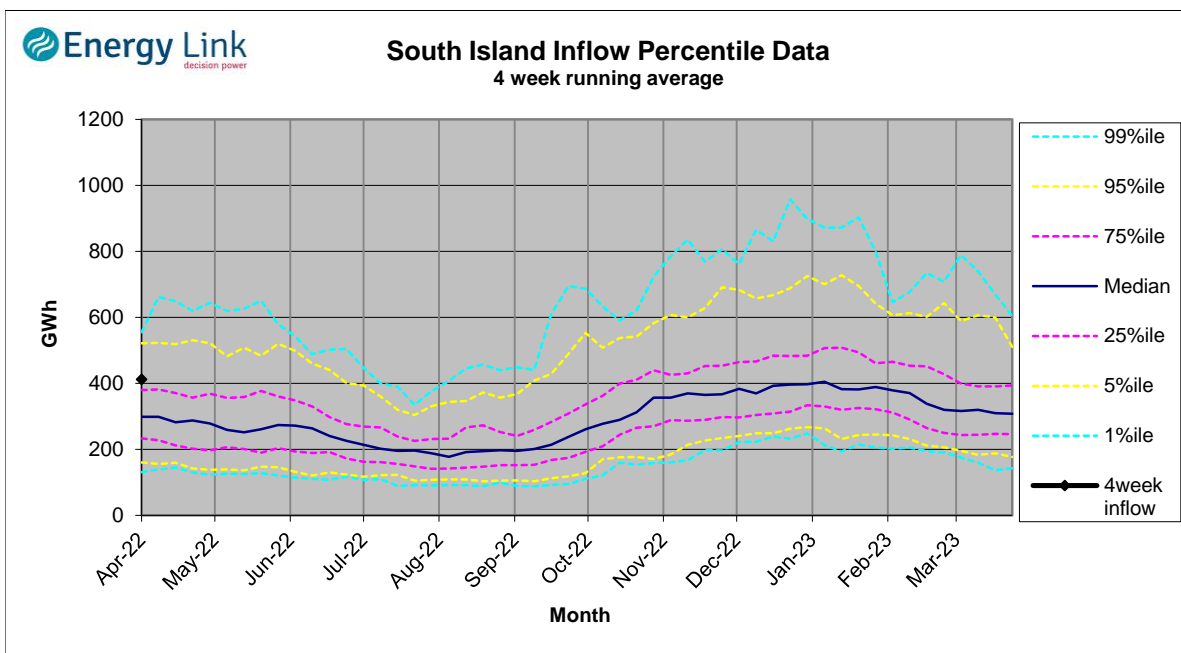
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.71	109	17	-23
	Te Anau	202.24	206		
Clutha	Wakatipu	309.87	47	144	-29
	Wanaka	277.32	62	210	-48
	Hawea	343.45	199	57	46
Waitaki	Tekapo	709.55	752		
	Pukaki	532.05	1786		
Waikato	Taupo	356.95	450		

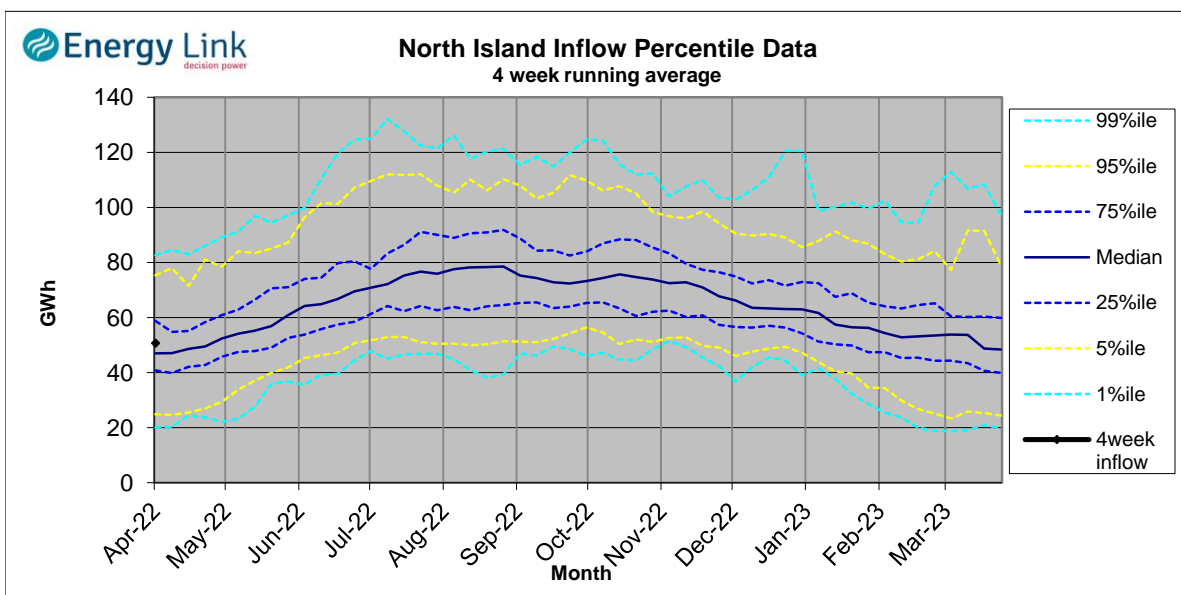
Inflow Summary

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.

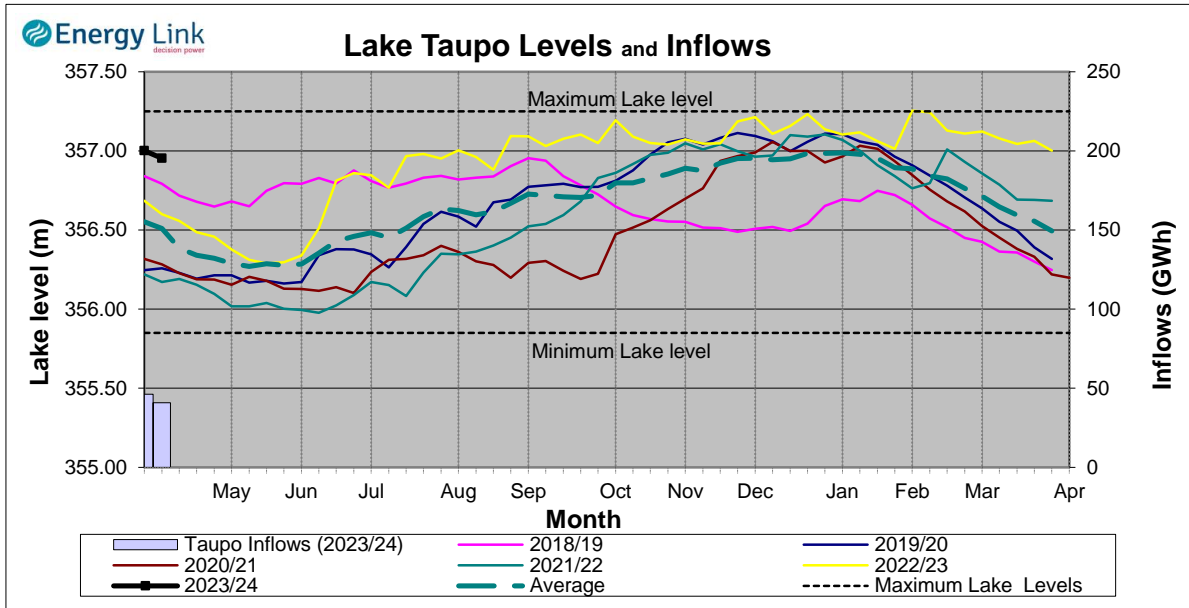
South Island Inflows - #N/A



North Island Inflows - #N/A



# Waikato System

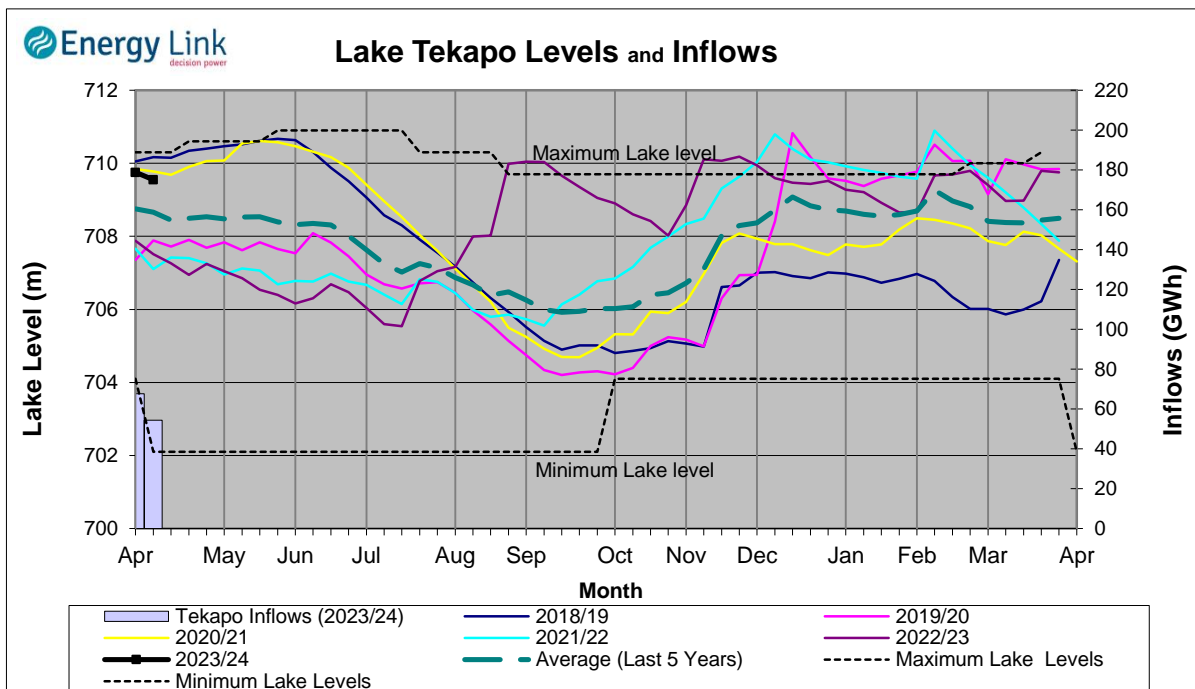


**Lake Levels** - Lake Taupo storage fell to 78.9% of nominal full at 450 GWh.

**Inflows** - Inflows decreased 11.7% to 41 GWh.

**Generation** - Average generation decreased 4.1% to 453.3 MW.

# Tekapo



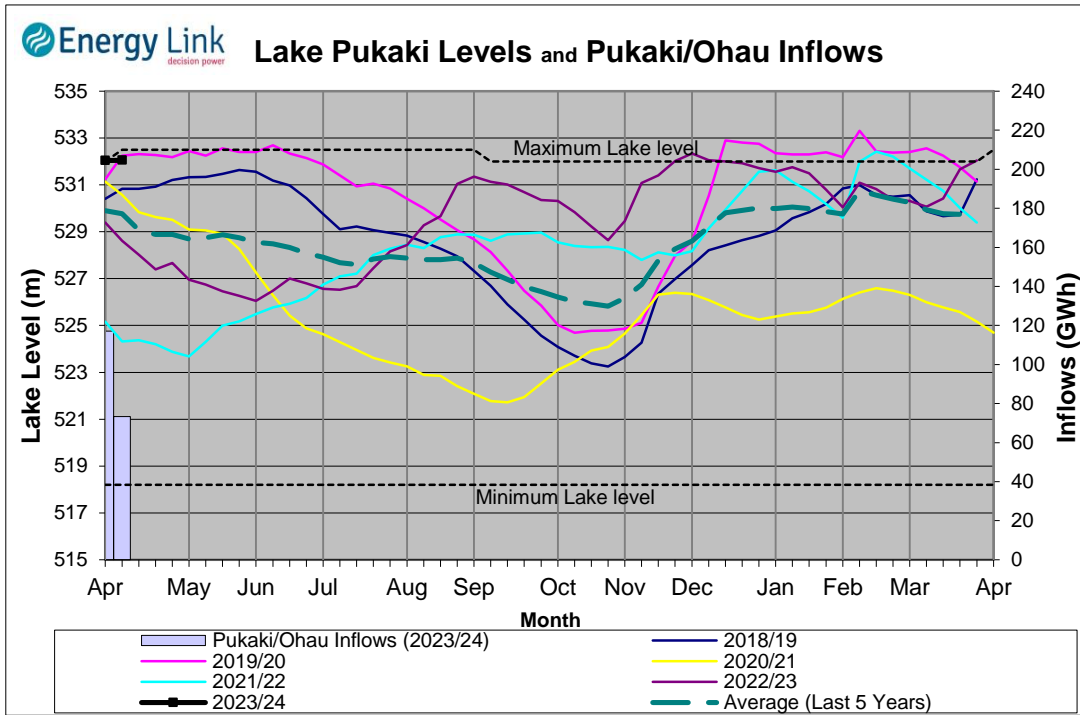
**Lake Levels** - Lake Tekapo ended the week 100% nominally full with storage falling to 752 GWh.

**Inflows** - Inflows into tekapo decreased 19.7% to 54 GWh.

**Generation** - Average Tekapo generation increased 7.1% to 163.9 MW.

**Hydro Spill** - Lake Tekapo did not spill.

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 100% nominally full with storage increasing to 178

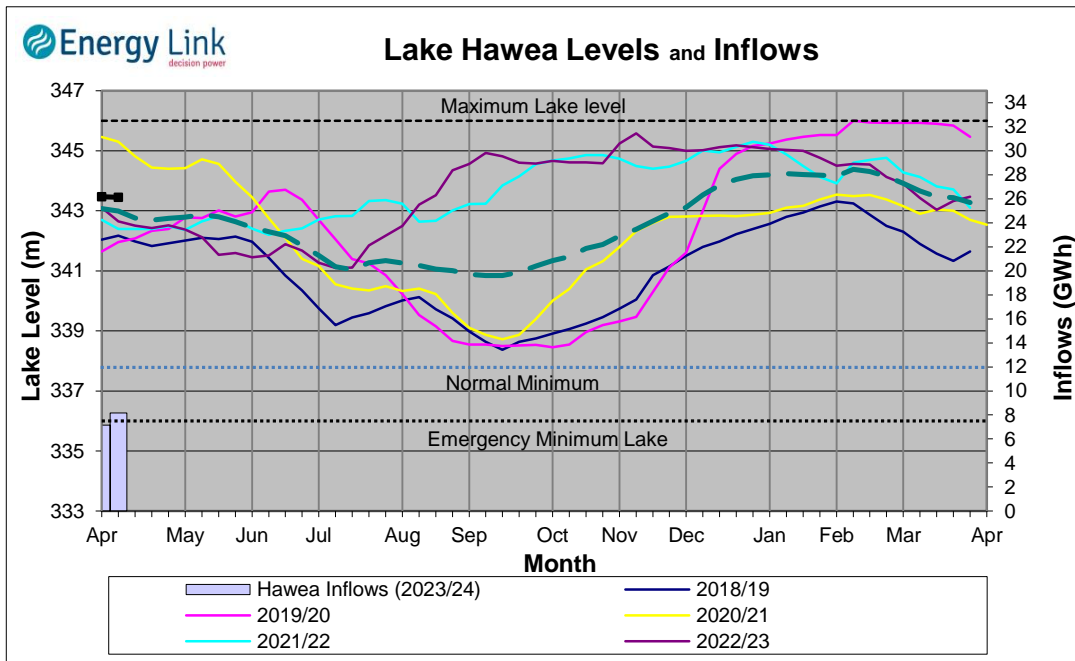
**Inflows** - Inflows into the Waitaki System decreased 37.4% to 73 GWh.

**Generation** - Average Waitaki generation increased 1.1% to 826 MW.

**Hydro Spill** - Lake Pukaki did not spill.

**River Flows** - Flows from the Ahuriri River fell to 21.8 cumecs while Waitaki River flows were lower than last week averaging 359.6 cumecs.

## Clutha System



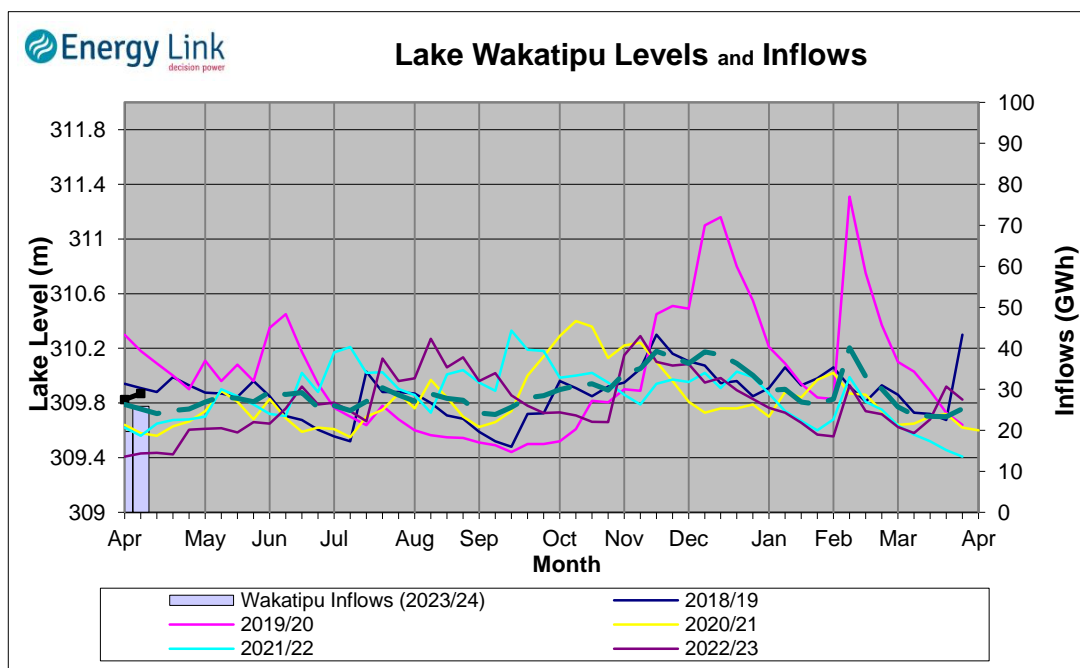
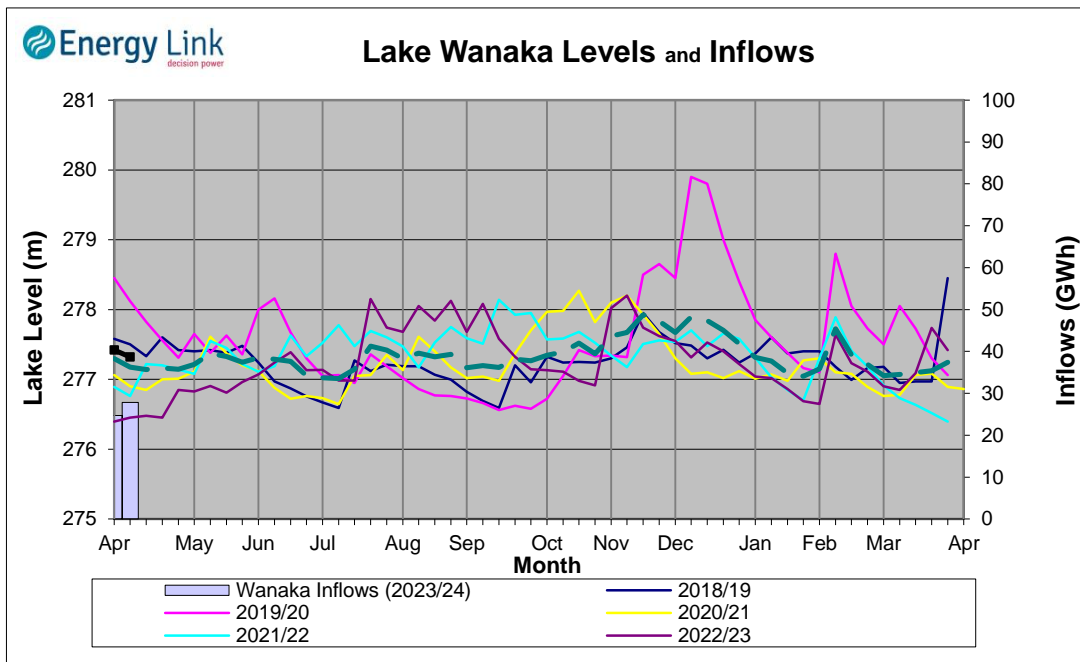
**Lake Levels** - Total storage for the Clutha System decreased 0.8% to 308 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 67.4%, 53.8% and 44.3% nominally full respectively.

**Inflows** - Total Inflows into the Clutha System 19.9% higher at 62 GWh.

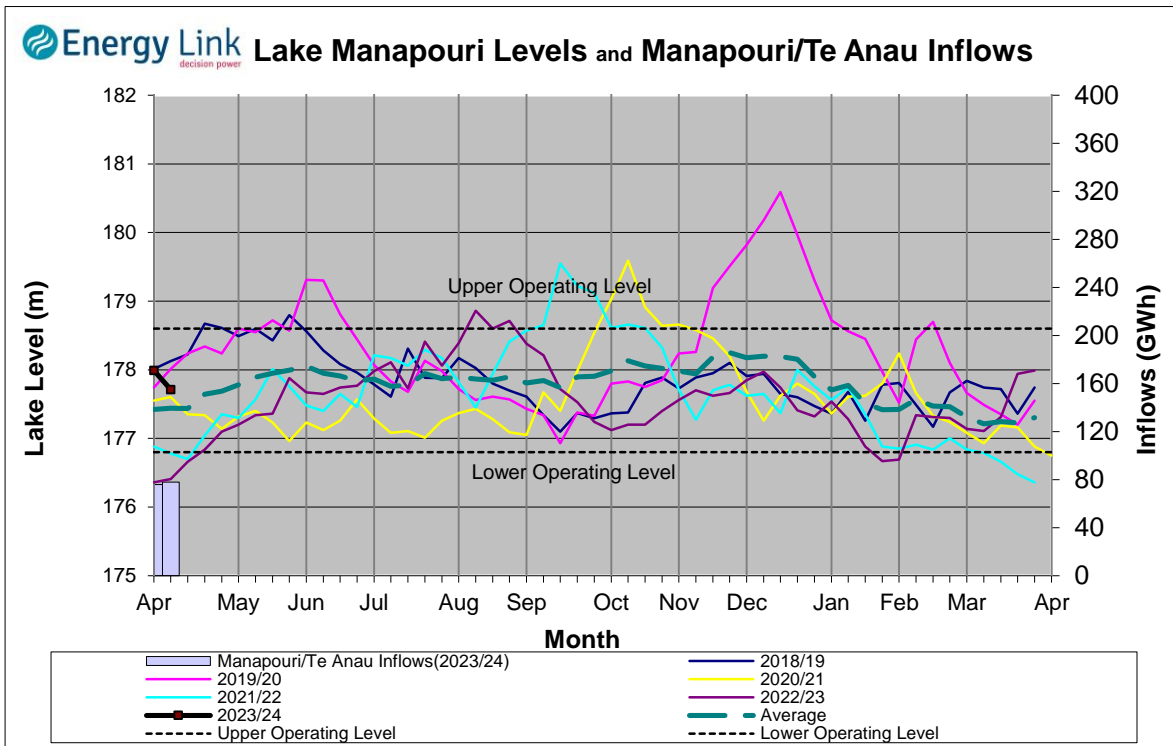
**Generation** - Average generation was 4.4% lower at 427 MW.

**Hydro Spill** - There was no estimated spill

**River Flows** - Total outflows from the lakes and Shotover River fell to 448.3 cumecs. This comprised of 57 cumecs from Lake Hawea, 210 cumecs from Lake Wanaka, 144 cumecs from Lake Wakatipu and 37 cumecs from the Shotover River.



### Manapouri System



**Lake Levels** - Total storage for the Manapouri System decreased 4.6% to 316 GWh with Lake Manapouri ending the week 67.2% nominally full and Lake Te Anau ending the week 75% nominally full.

**Inflows** - Total inflows into the Manapouri System increased 3% to 78 GWh.

**Generation** - Average generation was 33.5% higher at 555 MW.

**Hydro Spill** - Estimated spill at the Mararoa Weir was 16.7 cumecs.

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

