



Thursday, 17 November 2022

Issue: 1335

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)	2769	456	3224	488	3712
Storage Change (GWh)	23	-96	-73	0	-73

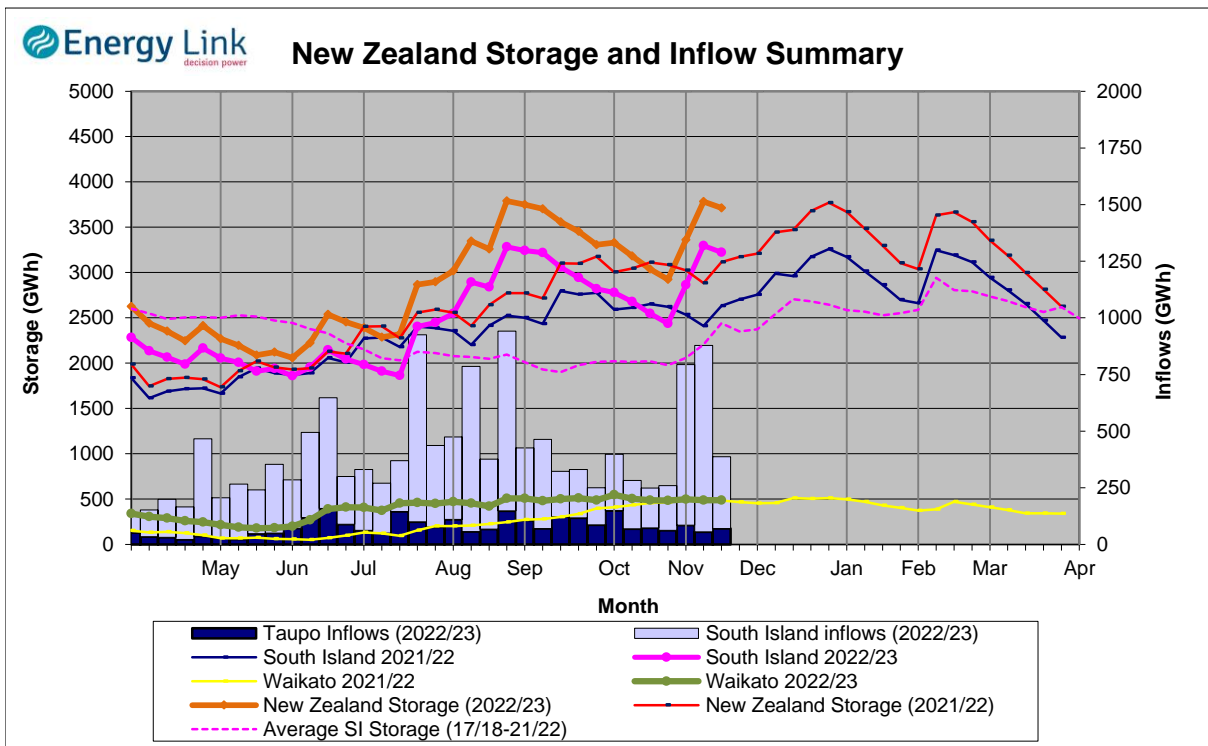
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3077	488	3566

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 72.5 GWh over the last week. South Island controlled storage increased 0.8% to 2769 GWh; South Island uncontrolled storage decreased 17.4% to 456 GWh; with Taupo storage remaining steady at 488 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
<b>This Week</b>	<b>309</b>	<b>410</b>	<b>2506</b>	<b>488</b>	<b>3712</b>
Last Week	367	463	2466	488	3785
% Change	-16.0%	-11.6%	1.6%	0.1%	-1.9%
Inflow (GWh)					
<b>This Week</b>	<b>45</b>	<b>69</b>	<b>202</b>	<b>71</b>	<b>386</b>
Last Week	154	166	504	55	879
% Change	-70.9%	-58.4%	-60.0%	29.1%	-56.0%

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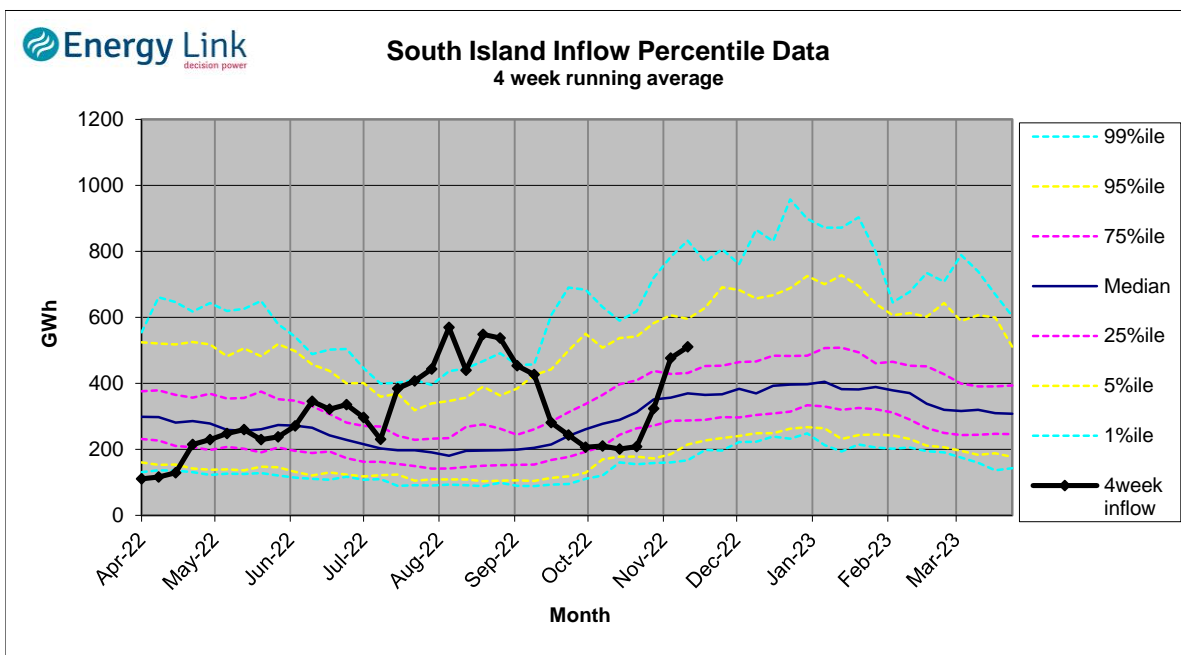
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.62	104	17	-66
	Te Anau	202.23	205		
Clutha	Wakatipu	310.10	64	271	-59
	Wanaka	277.74	82	332	
	Hawea	345.15	263	185	
Waitaki	Tekapo	710.07	809		-113
	Pukaki	531.40	1696		
Waikato	Taupo	357.05	488		101

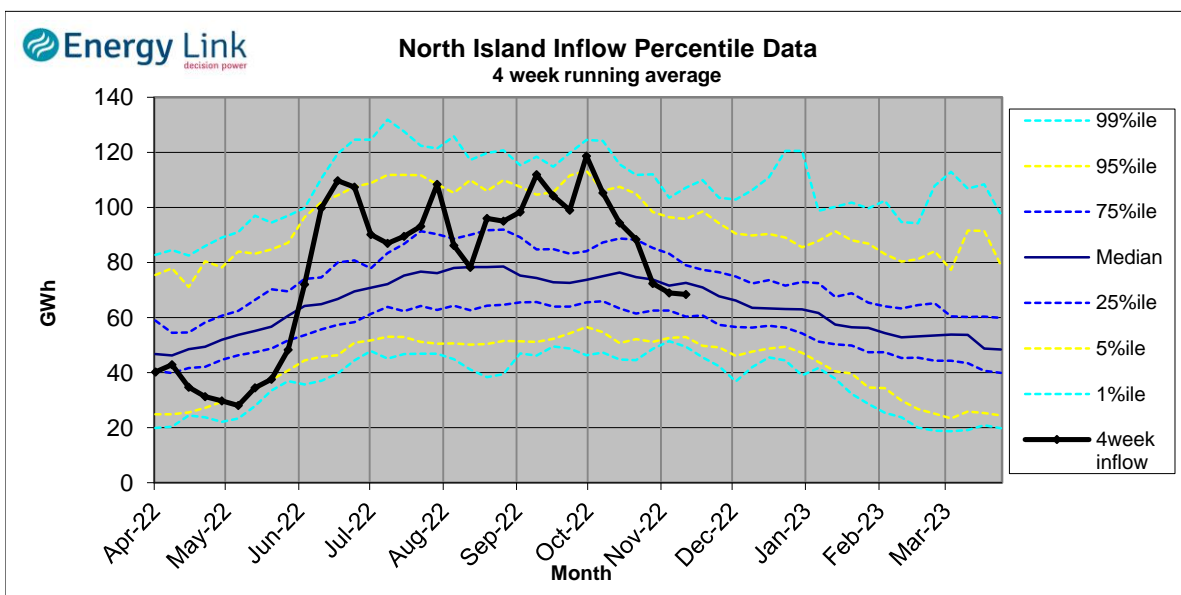
Inflow Summary

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.

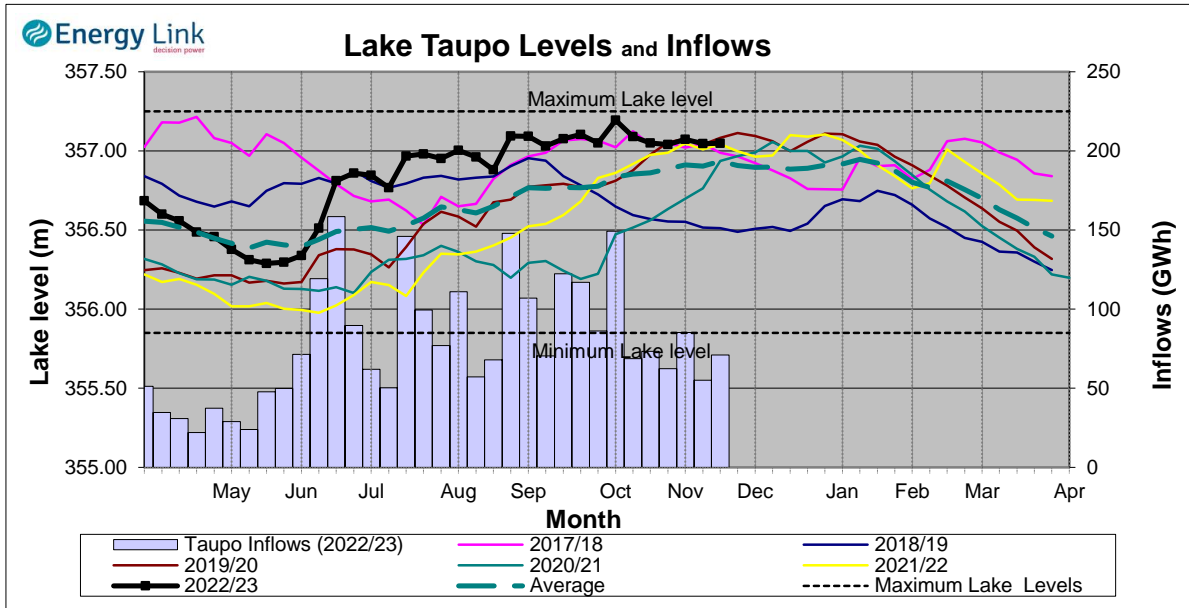
**South Island Inflows** - The past four weeks of S. I. inflows rank as the 12th wettest on record.



**North Island Inflows** - The past four weeks of N. I. inflows rank as the 40th driest on record.



# Waikato System

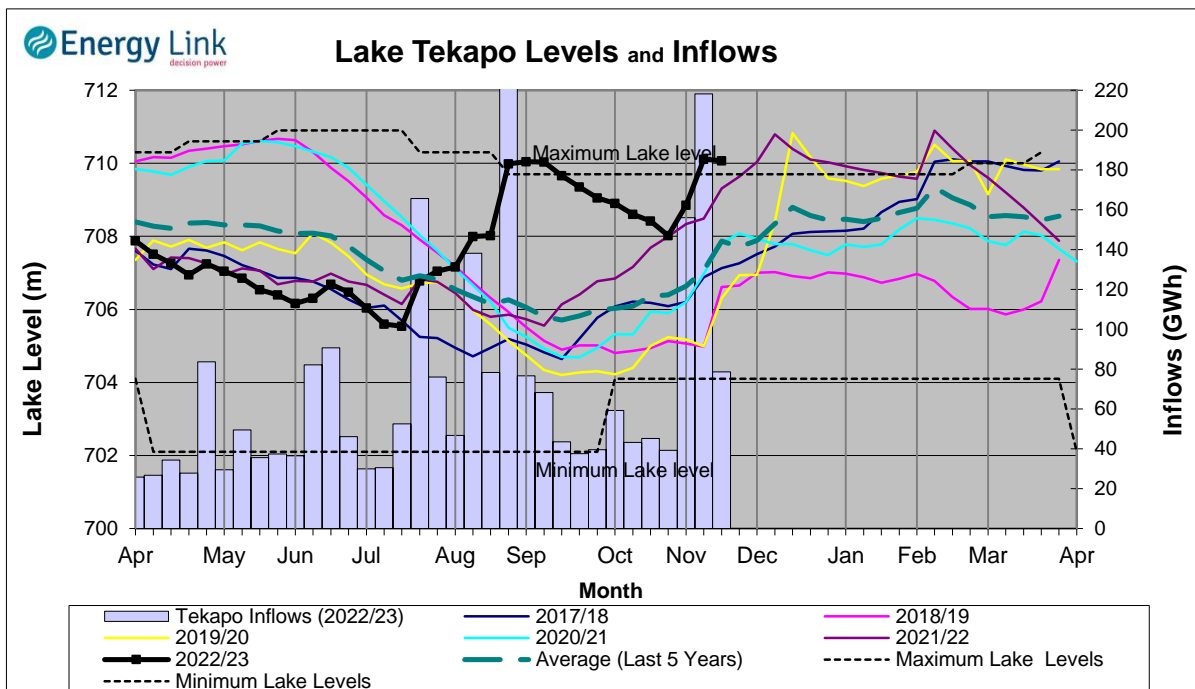


**Lake Levels** - Lake Taupo storage remained steady at 85.5% of nominal full at 488 GWh.

**Inflows** - Inflows increased 29.1% to 71 GWh.

**Generation** - Average generation increased 9.3% to 480.5 MW.

# Tekapo



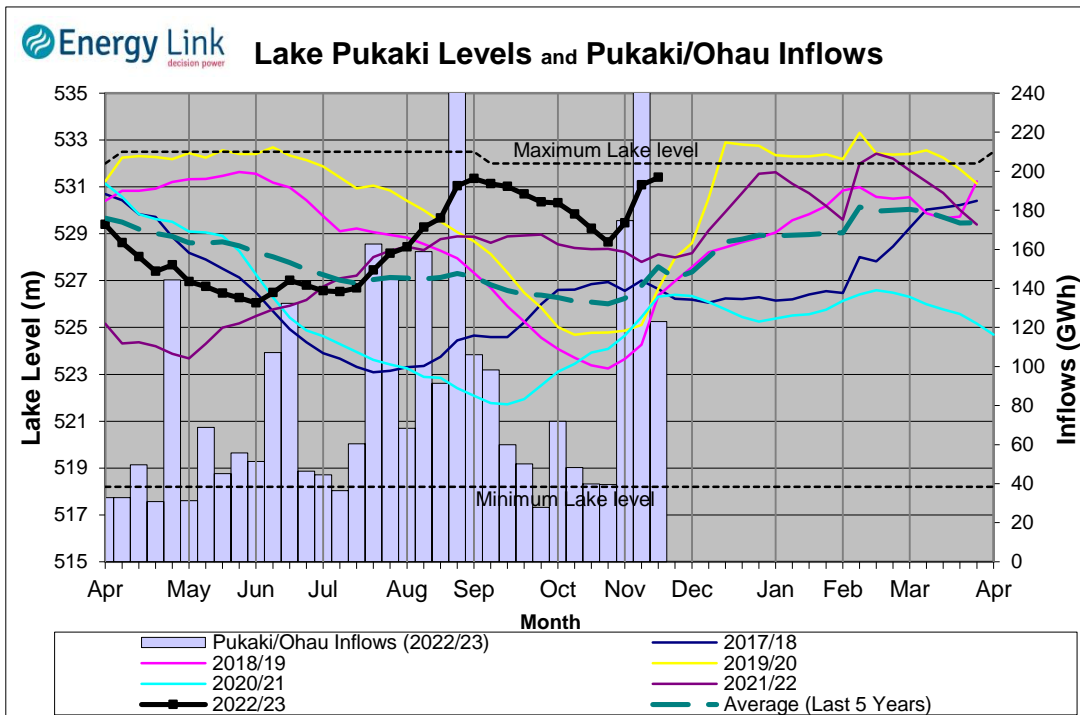
**Lake Levels** - Lake Tekapo ended the week 112% nominally full with storage falling to 809 GWh.

**Inflows** - Inflows into tekapo decreased 63.9% to 79 GWh.

**Generation** - Average Tekapo generation increased 1.8% to 169.1 MW.

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

## Waitaki System



**Lake Levels** - Lake Pukaki ended the week 95% nominally full with storage increasing to 1696

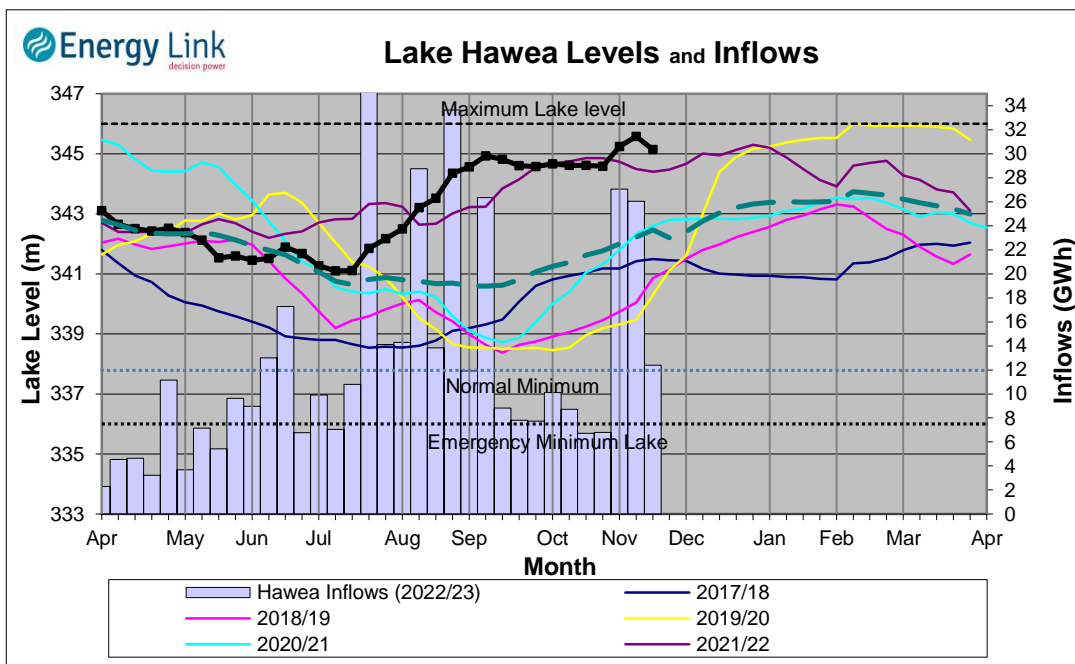
**Inflows** - Inflows into the Waitaki System decreased 56.9% to 123 GWh.

**Generation** - Average Waitaki generation increased 0.1% to 966.2 MW.

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

**River Flows** - Flows from the Ahuriri River fell to 28.9 cumecs while Waitaki River flows were lower than last week averaging 428.2 cumecs.

## Clutha System



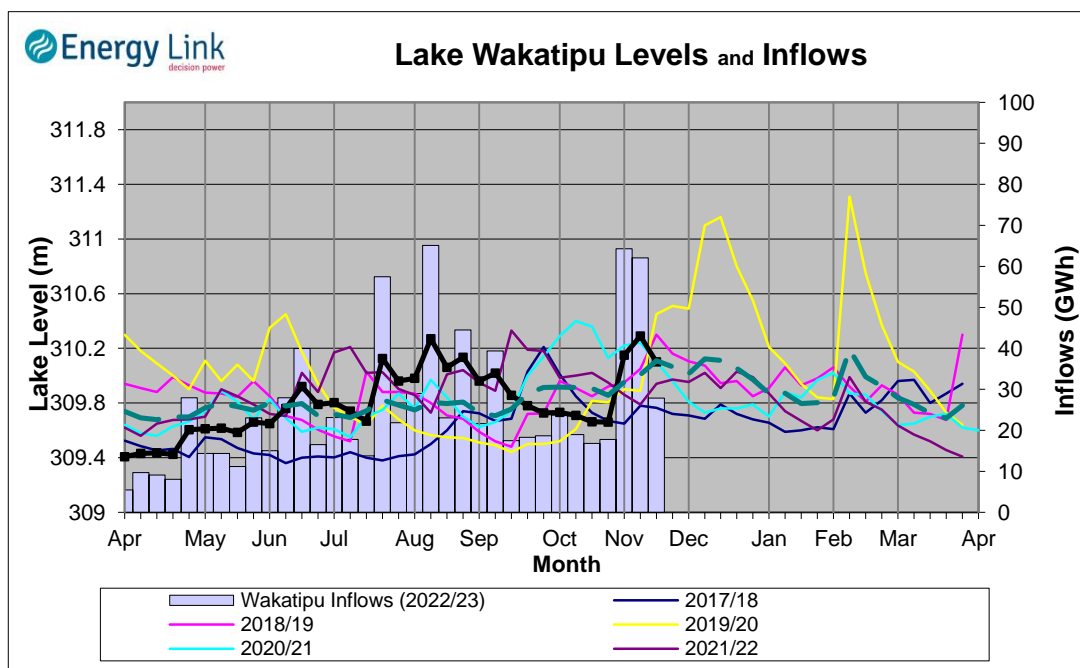
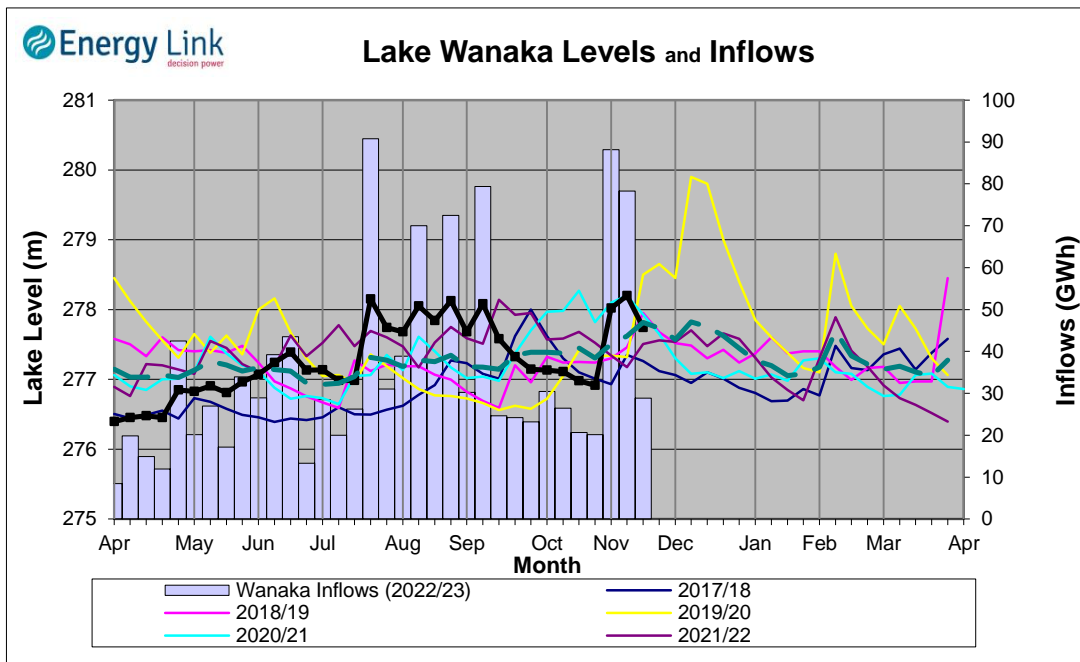
**Lake Levels -** Total storage for the Clutha System decreased 11.6% to 410 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 89%, 72.1% and 60.7% nominally full respectively.

**Inflows -** Total Inflows into the Clutha System 58.4% lower at 69 GWh.

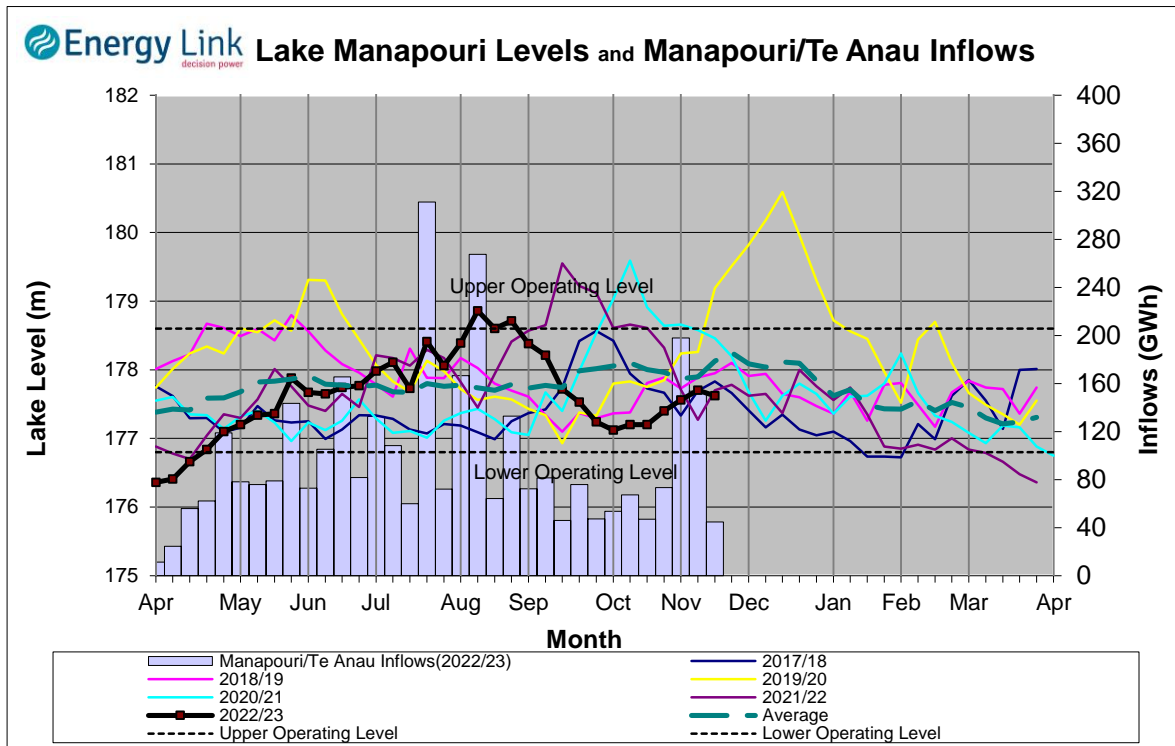
**Generation -** Average generation was 15.6% higher at 636 MW.

**Hydro Spill -** Estimate Spill is 162.9 cumecs.

**River Flows -** Total outflows from the lakes and Shotover River fell to 848.8 cumecs. This comprised of 185 cumecs from Lake Hawea, 332 cumecs from Lake Wanaka, 271 cumecs from Lake Wakatipu and 61 cumecs from the Shotover River.



### Manapouri System



**Lake Levels** - Total storage for the Manapouri System decreased 16% to 309 GWh with Lake Manapouri ending the week 63.9% nominally full and Lake Te Anau ending the week 74.5% nominally full.

**Inflows** - Total inflows into the Manapouri System decreased 70.9% to 45 GWh.

**Generation** - Average generation was 5.5% lower at 615 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'.

