



Thursday, 10 November 2022

Issue: 1334

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)	2746	551	3297	488	3785
Storage Change (GWh)	371	64	435	-11	424

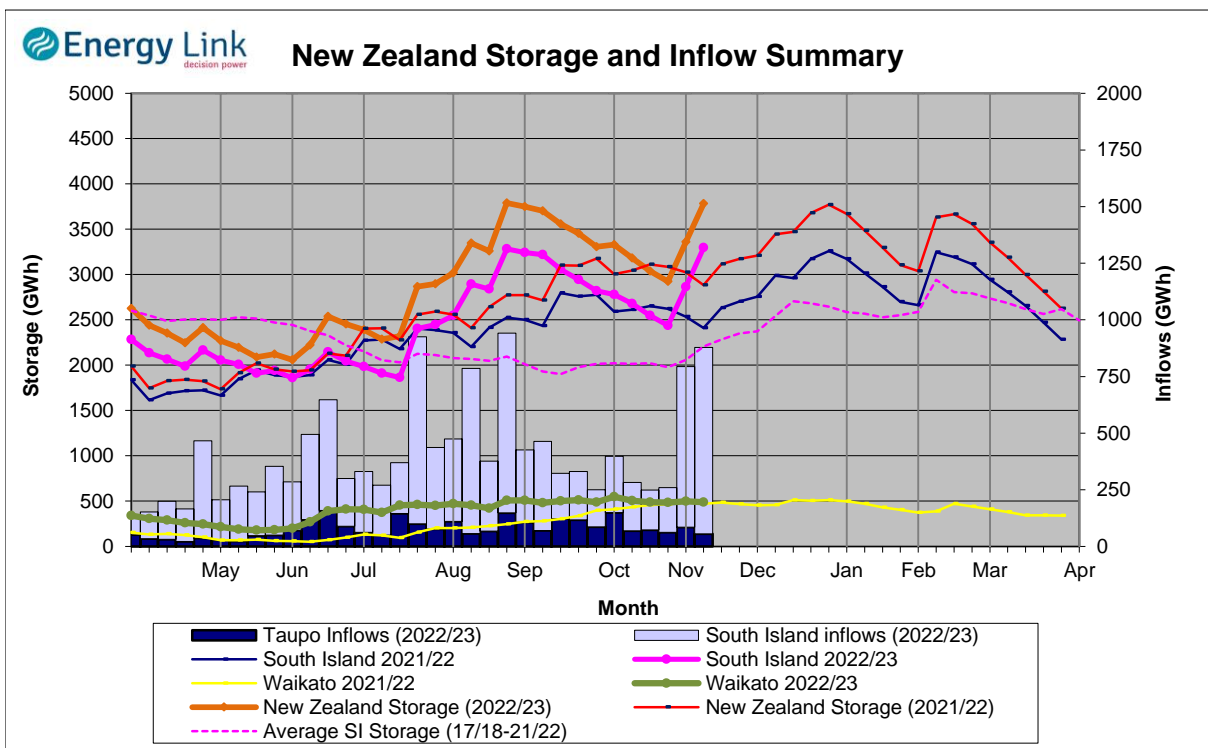
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3113	488	3601

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 increased 423.6 GWh over the last week. South Island controlled storage increased 15.6% to 2746 GWh; South Island uncontrolled storage increased 13.1% to 551 GWh; with Taupo storage decreasing 2.2% to 488 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	367	463	2466	488	3785
Last Week	323	431	2108	499	3361
% Change	13.7%	7.5%	17.0%	-2.2%	12.6%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	154	166	504	55	879
Last Week	198	180	331	85	793
% Change	-22.4%	-7.3%	52.3%	-35.5%	10.7%

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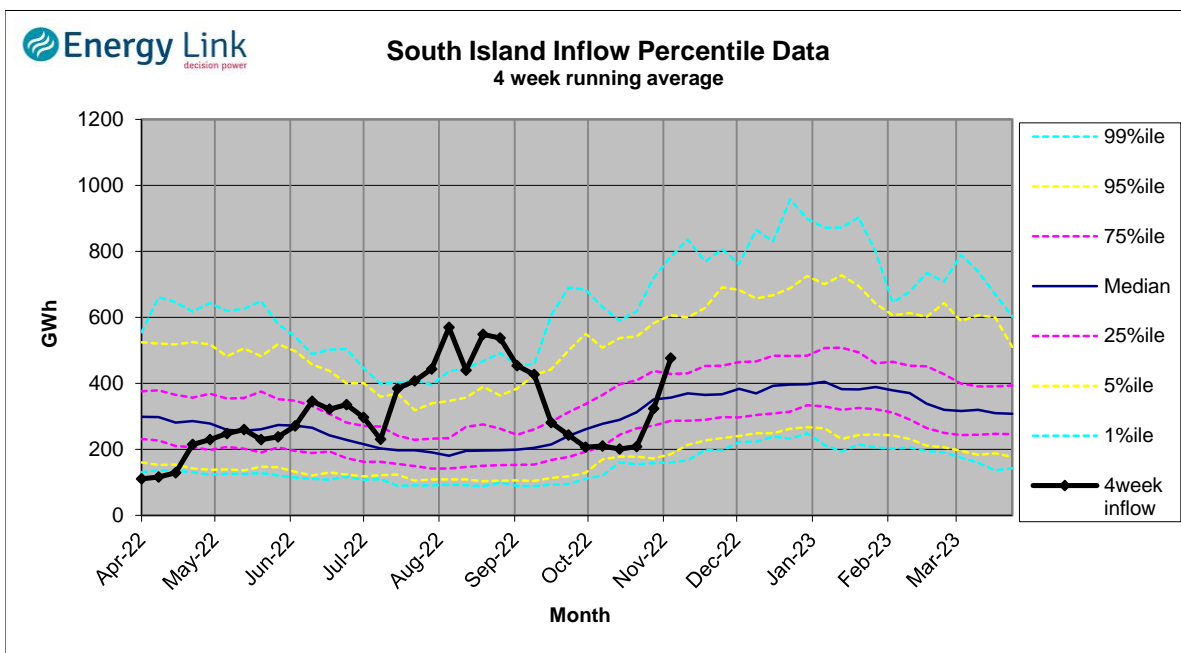
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.70	109	82	
	Te Anau	202.59	259		
Clutha	Wakatipu	310.29	79	330	155
	Wanaka	278.20	105	444	
	Hawea	345.58	279	85	
Waitaki	Tekapo	710.11	814		231
	Pukaki	531.08	1652		
Waikato	Taupo	357.05	488		70

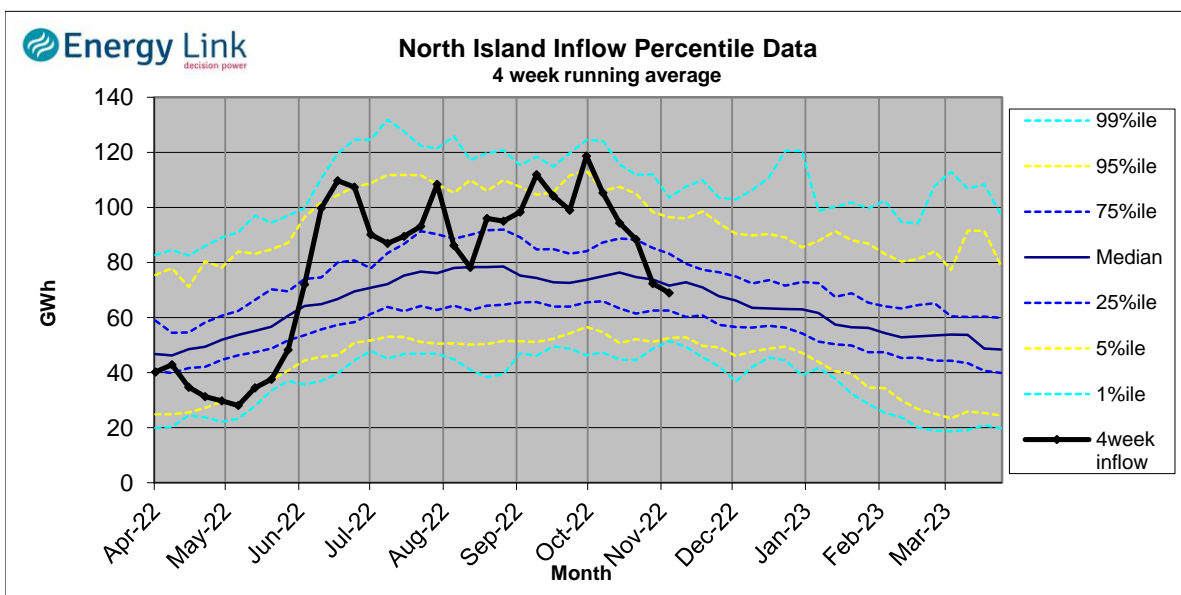
Inflow Summary

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.

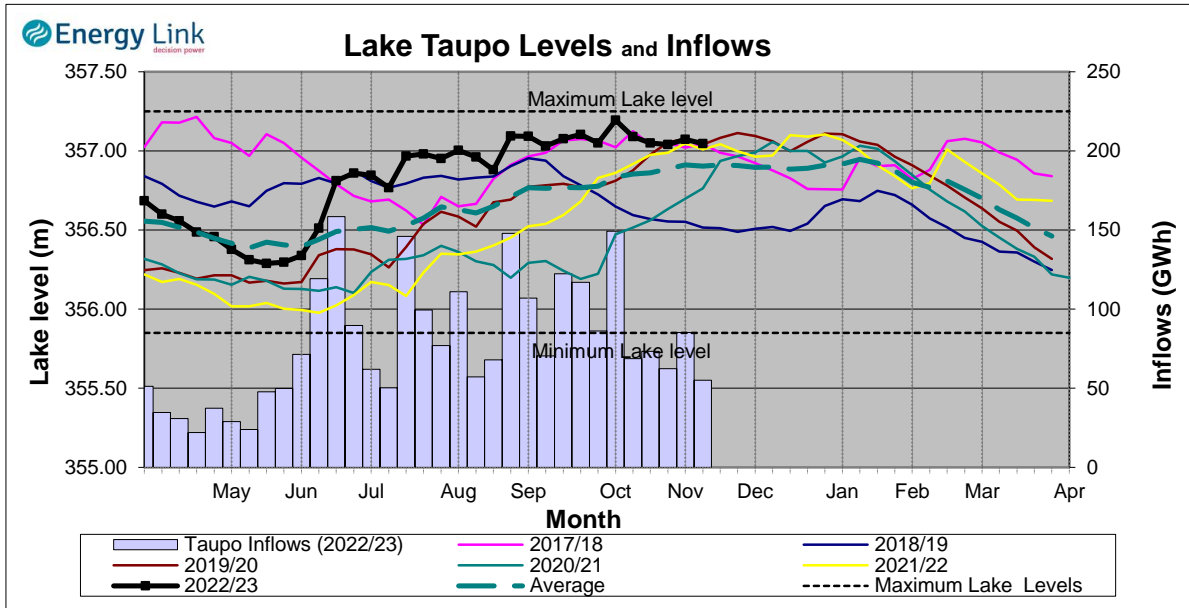
South Island Inflows - The past four weeks of S. I. inflows rank as the 16th wettest on record.



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



Waikato System

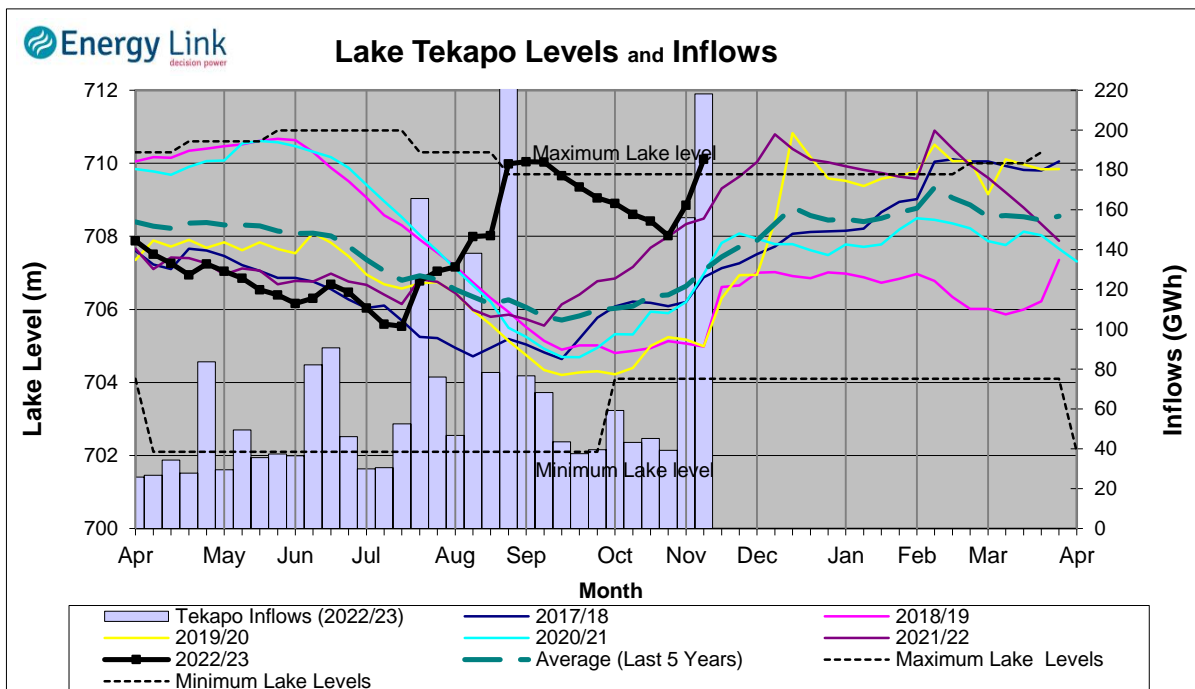


Lake Levels - Lake Taupo storage fell to 85.4% of nominal full at 488 GWh.

Inflows - Inflows decreased 35.5% to 55 GWh.

Generation - Average generation decreased 8% to 439.8 MW.

Tekapo



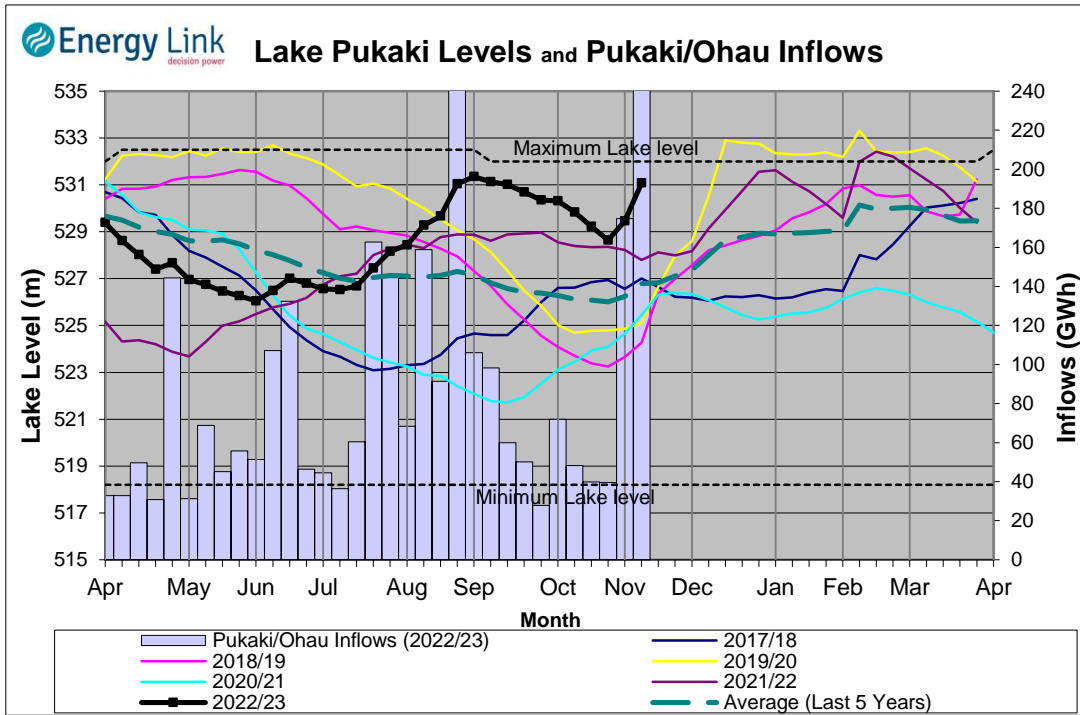
Lake Levels - Lake Tekapo ended the week 112% nominally full with storage increasing to 814 GWh.

Inflows - Inflows into tekapo increased 39.8% to 218 GWh.

Generation - Average Tekapo generation increased 22.6% to 166.1 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 93% nominally full with storage increasing to 1652

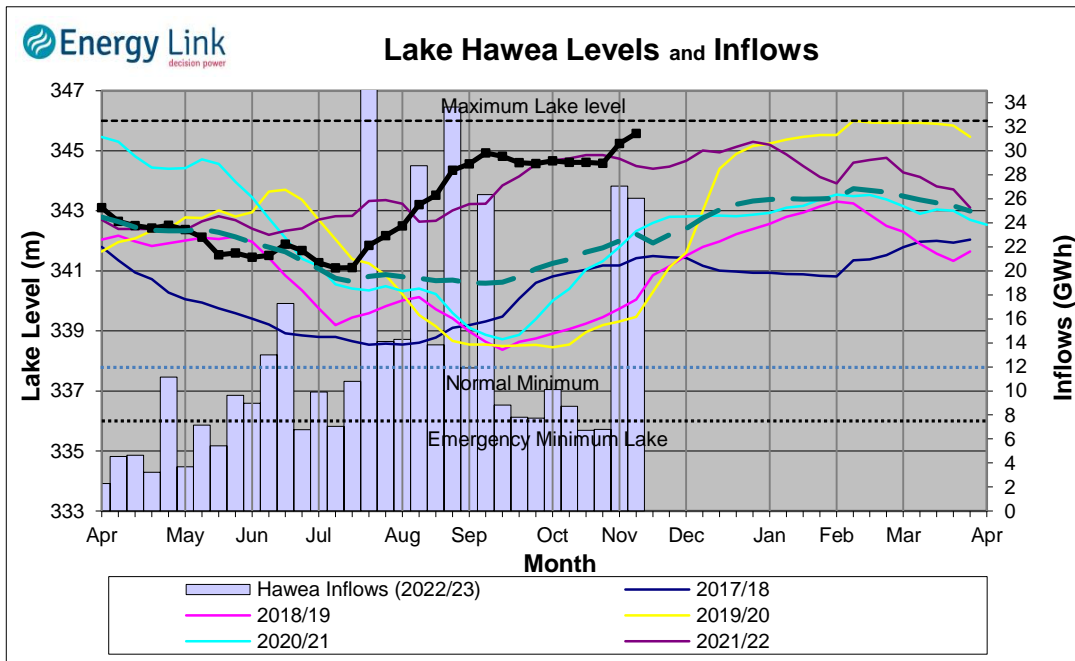
Inflows - Inflows into the Waitaki System increased 63.4% to 286 GWh.

Generation - Average Waitaki generation increased 15.9% to 964.8 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 65.5 cumecs while Waitaki River flows were higher than last week averaging 447.2 cumecs.

Clutha System



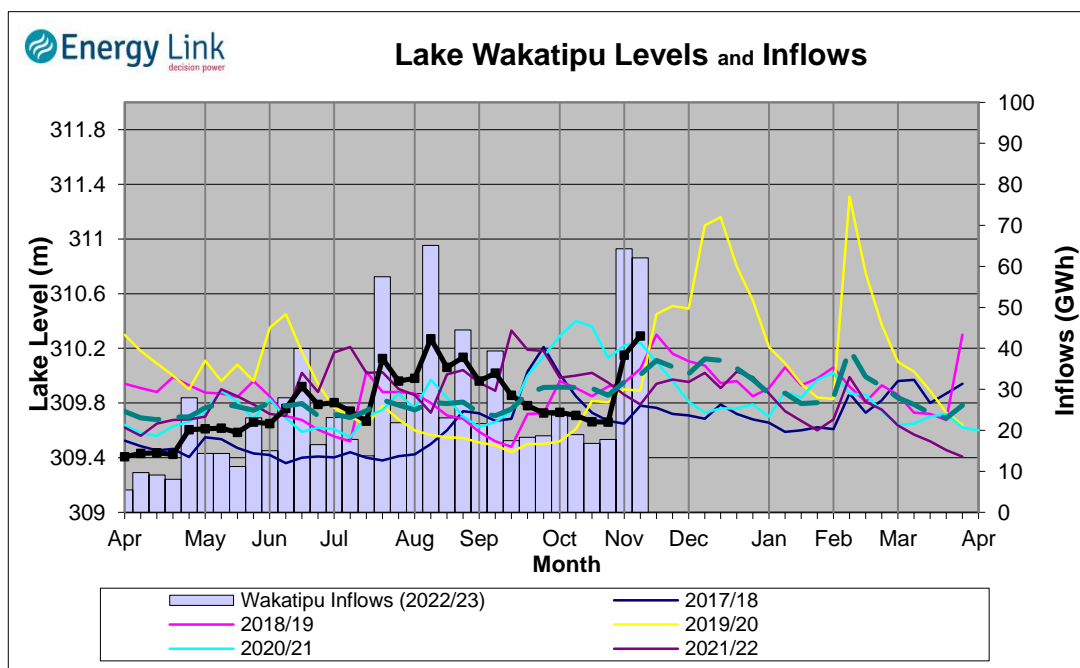
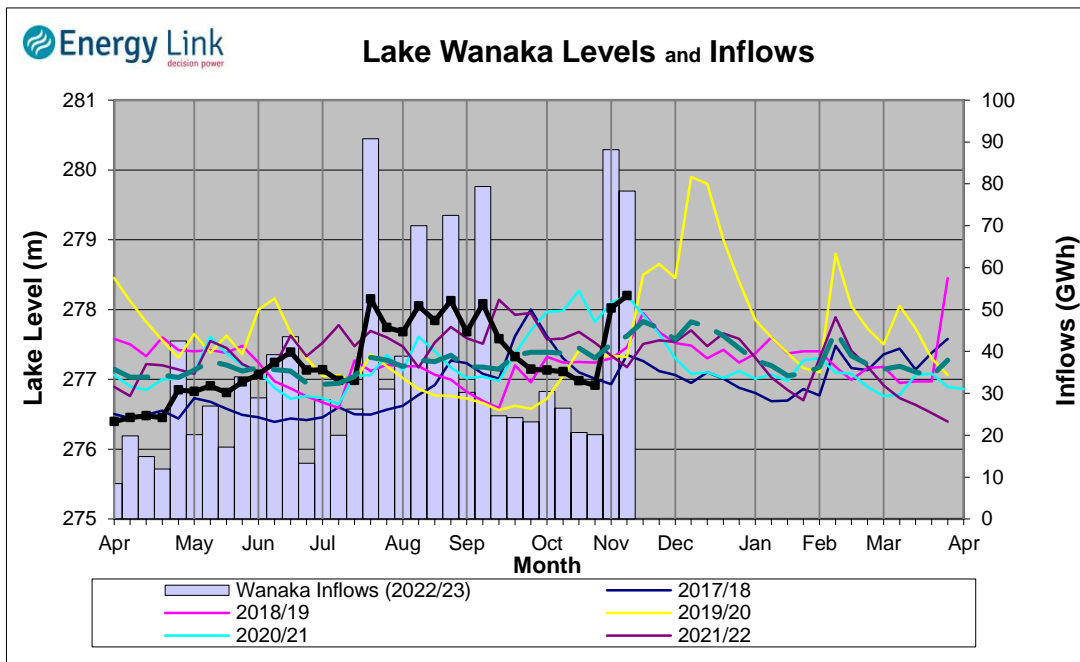
Lake Levels - Total storage for the Clutha System increased by 7.5% to 463 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 94.6%, 92.1% and 74.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 7.3% lower at 166 GWh.

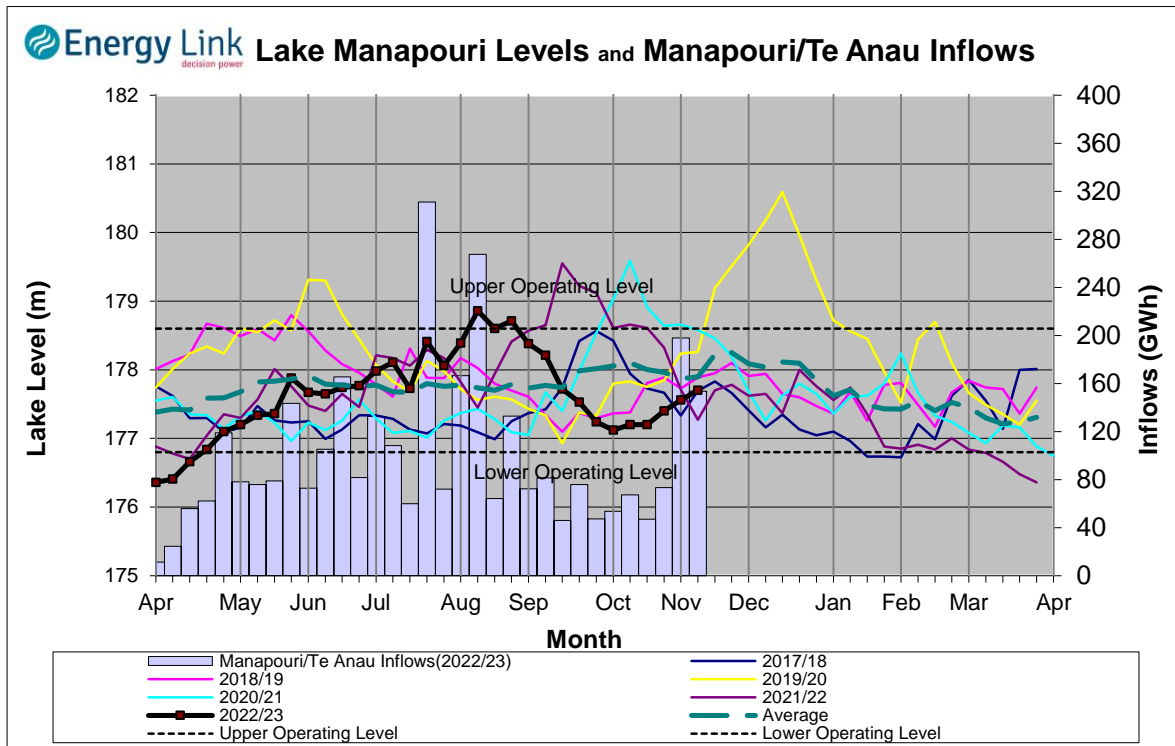
Generation - Average generation was 17.8% higher at 550 MW.

Hydro Spill - Estimate Spill is 364.2 cumecs.

River Flows - Total outflows from the lakes and Shotover River increased to 964.6 cumecs. This comprised of 85 cumecs from Lake Hawea, 444 cumecs from Lake Wanaka, 330 cumecs from Lake Wakatipu and 105 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 13.7% to 367 GWh with Lake Manapouri ending the week 66.9% nominally full and Lake Te Anau ending the week 94% nominally full.

Inflows - Total inflows into the Manapouri System decreased 22.4% to 154 GWh.

Generation - Average generation was 21.8% higher at 651 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 82.4 cumecs.

Operating Range - Lake Manapouri is operating in the middle of its 'Main operating range' while Lake Te Anau is operating in the upper end of its 'Main operating range'.

