



Thursday, 15 December 2022

Issue: 1339

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)	2784	435	3218	534	3752
Storage Change (GWh)	-18	1	-17	21	4

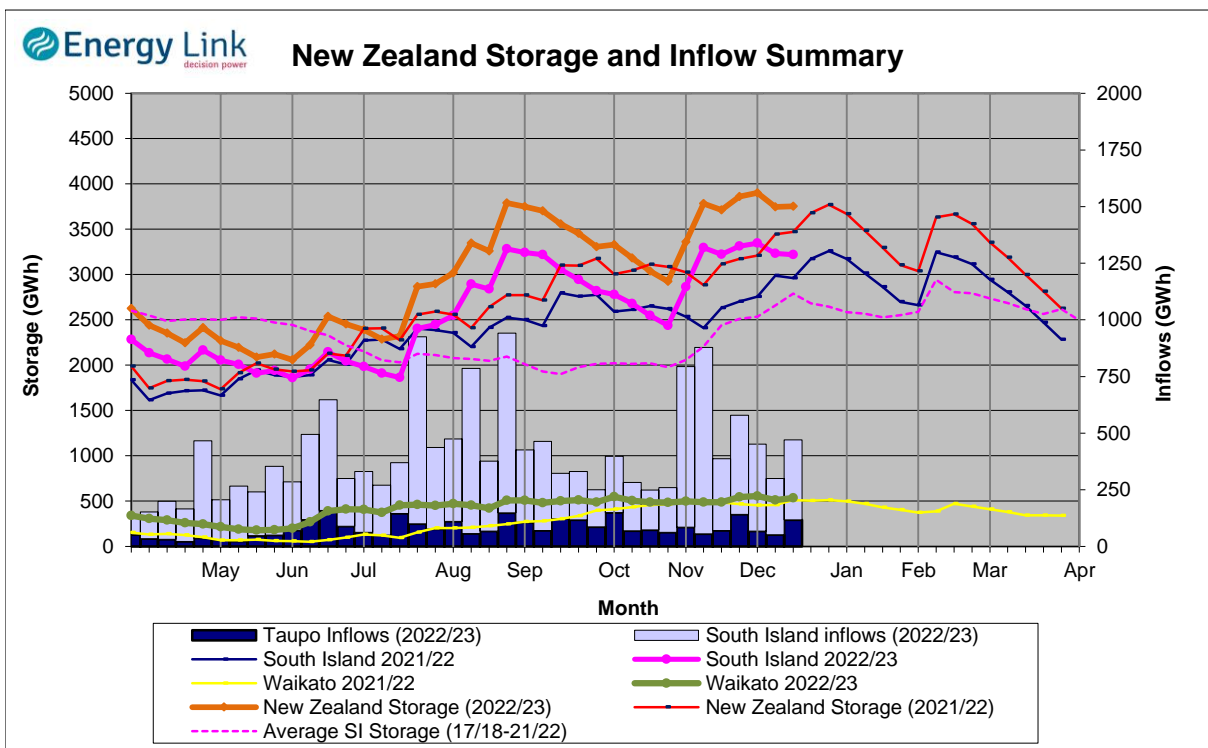
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3091	534	3624

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 4.3 GWh over the last week. South Island controlled storage decreased 0.6% to 2784 GWh; South Island uncontrolled storage increased 0.2% to 435 GWh; with Taupo storage increasing 4.1% to 534 GWh.



Thursday, 15 December 2022					
Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	307	389	2522	534	3752
Last Week	319	372	2543	513	3747
% Change	-3.8%	4.6%	-0.8%	4.1%	0.1%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	79	96	178	117	470
Last Week	56	58	134	51	300
% Change	42.0%	63.9%	32.5%	128.8%	56.9%

Subscribe at www.energylink.co.nz/publications

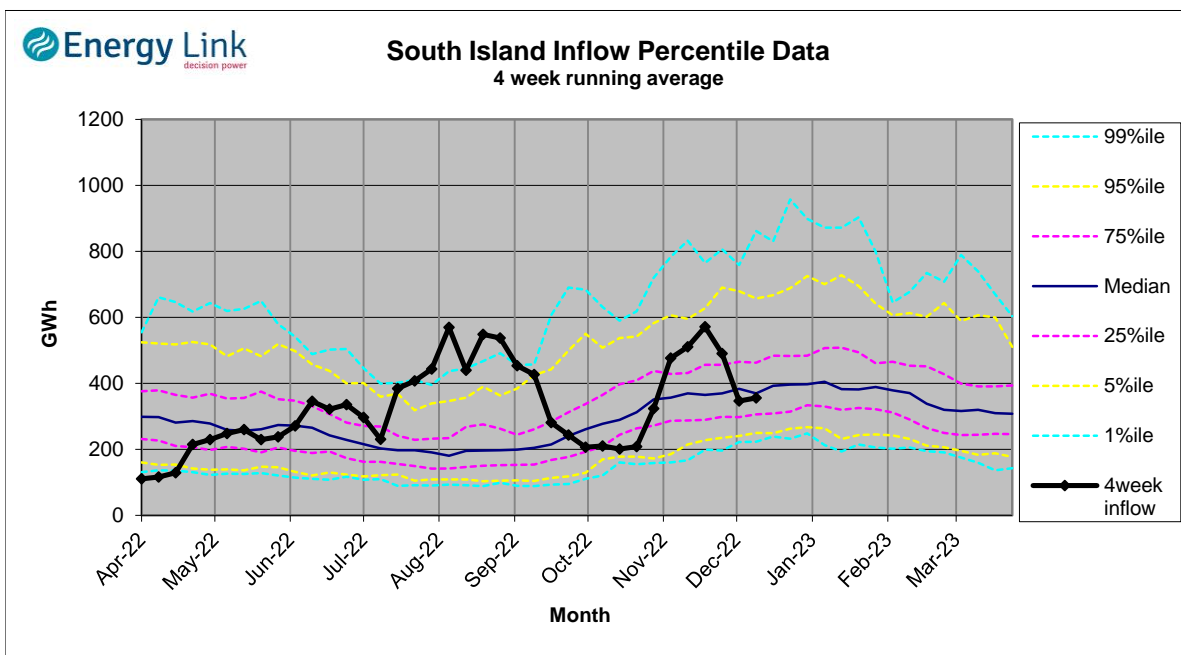
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.74	111	17	1
	Te Anau	202.17	196		
Clutha	Wakatipu	309.98	55	212	-10
	Wanaka	277.53	72	249	
	Hawea	345.12	262	44	
Waitaki	Tekapo	709.47	743		6
	Pukaki	532.00	1779		
Waikato	Taupo	357.16	534		-3

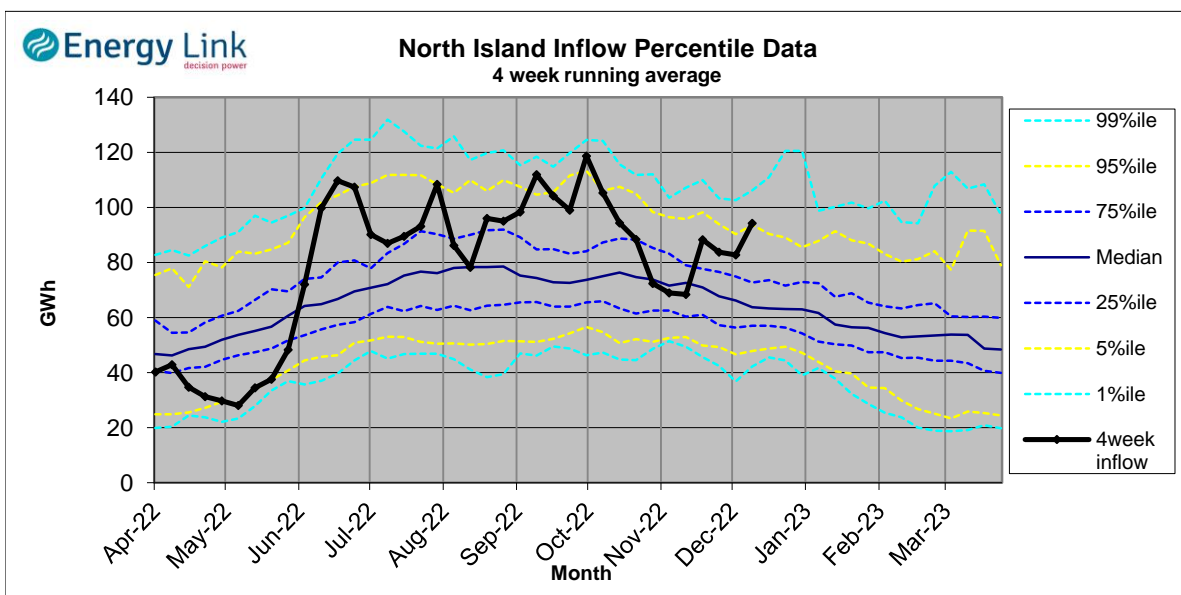
Inflow Summary

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.

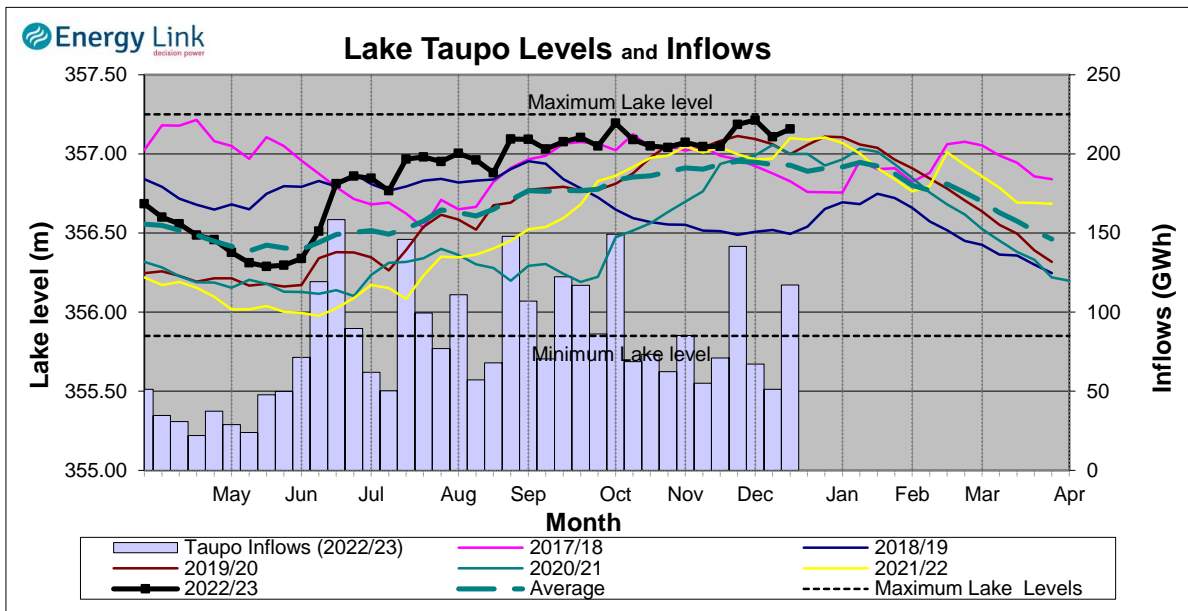
South Island Inflows - The past four weeks of S. I. inflows rank as the 38th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 5th wettest on record.



Waikato System

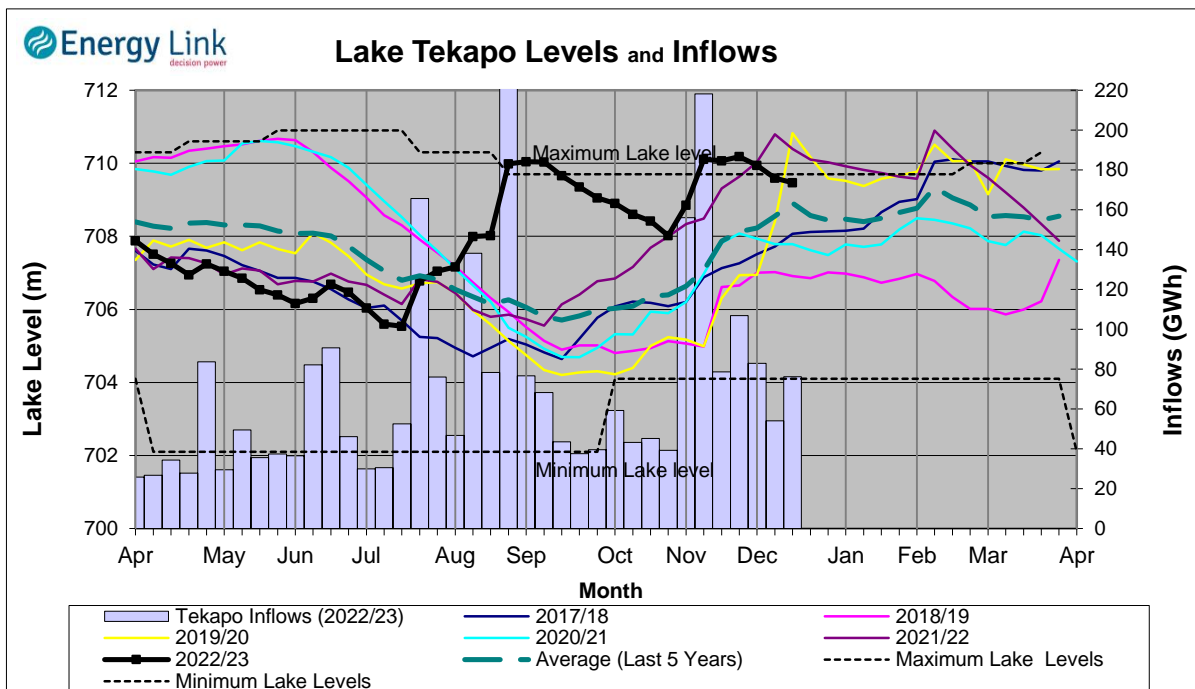


Lake Levels - Lake Taupo storage increased to 93.4% of nominal full at 534 GWh.

Inflows - Inflows increased 128.8% to 117 GWh.

Generation - Average generation increased 14.8% to 545.9 MW.

Tekapo



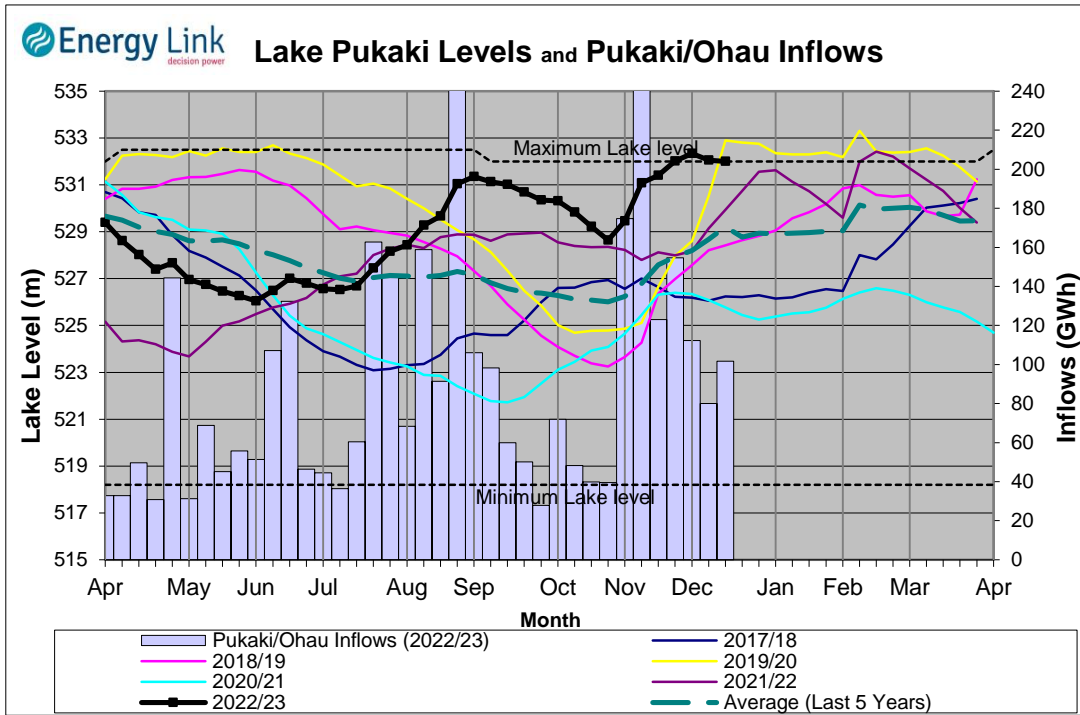
Lake Levels - Lake Tekapo ended the week 103% nominally full with storage falling to 743 GWh.

Inflows - Inflows into tekapo increased 40.9% to 76 GWh.

Generation - Average Tekapo generation increased 67.5% to 152 MW.

Hydro Spill - Lake Tekapo spill was 27.1 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 100% nominally full with storage falling to 1779 GJ

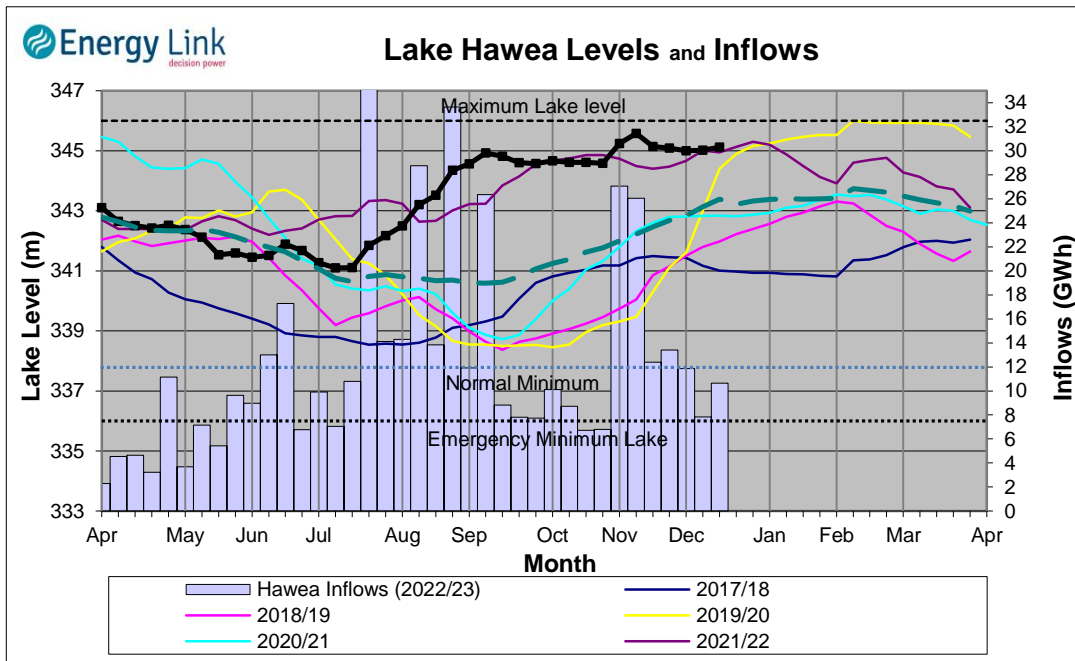
Inflows - Inflows into the Waitaki System increased 26.9% to 102 GWh.

Generation - Average Waitaki generation decreased 1.8% to 1100.7 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 28 cumecs while Waitaki River flows were lower than last week averaging 481.1 cumecs.

Clutha System



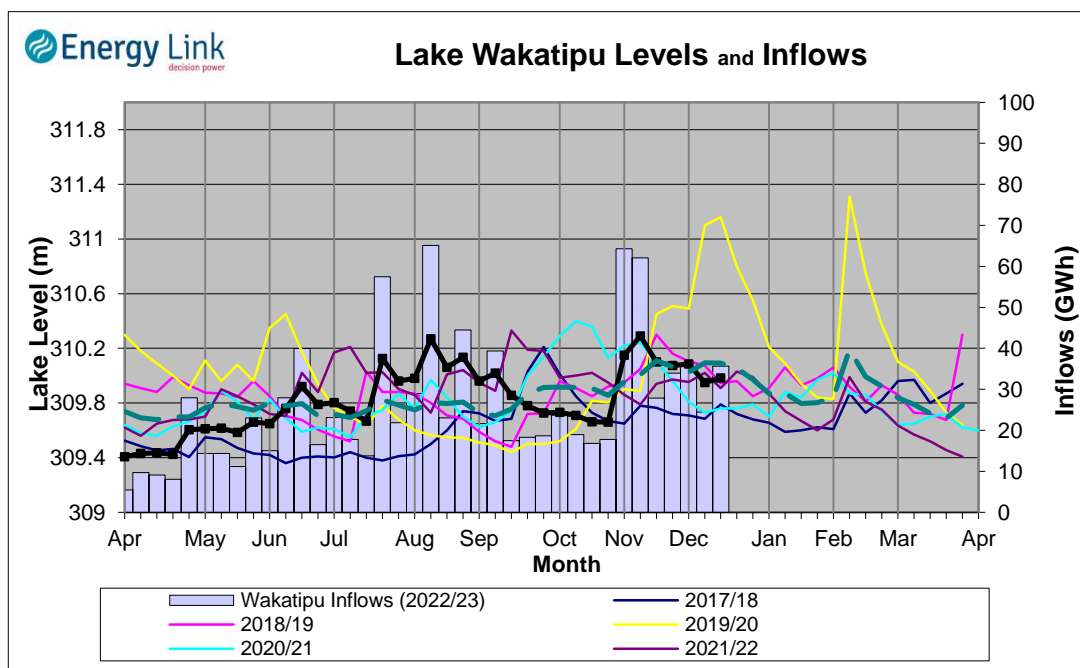
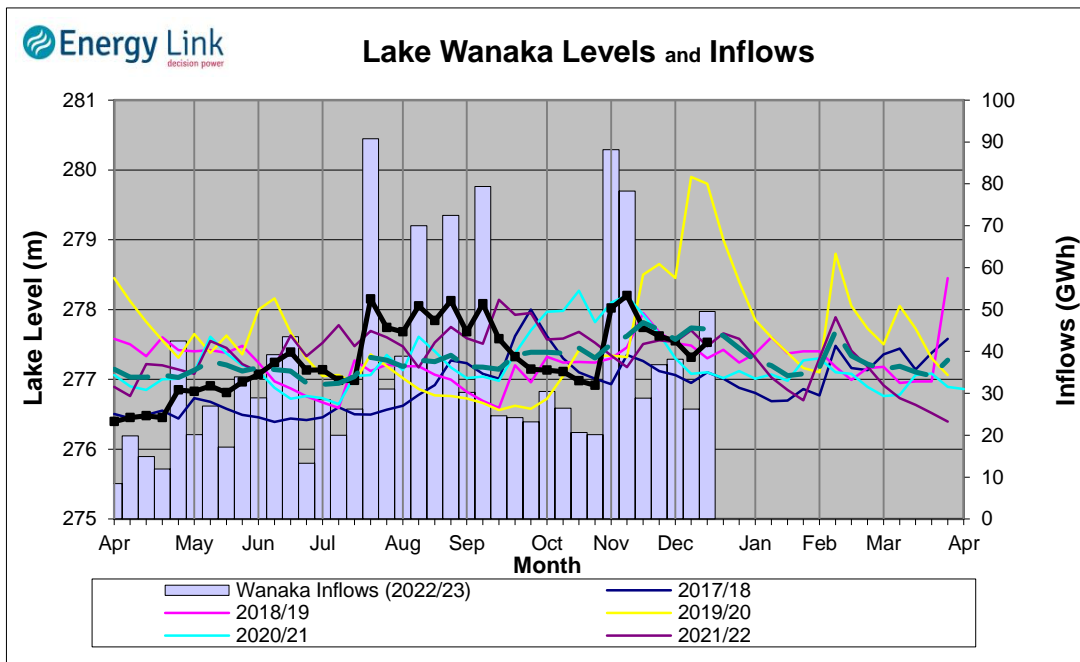
Lake Levels - Total storage for the Clutha System increased by 4.6% to 389 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 88.7%, 63% and 52.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 63.9% higher at 96 GWh.

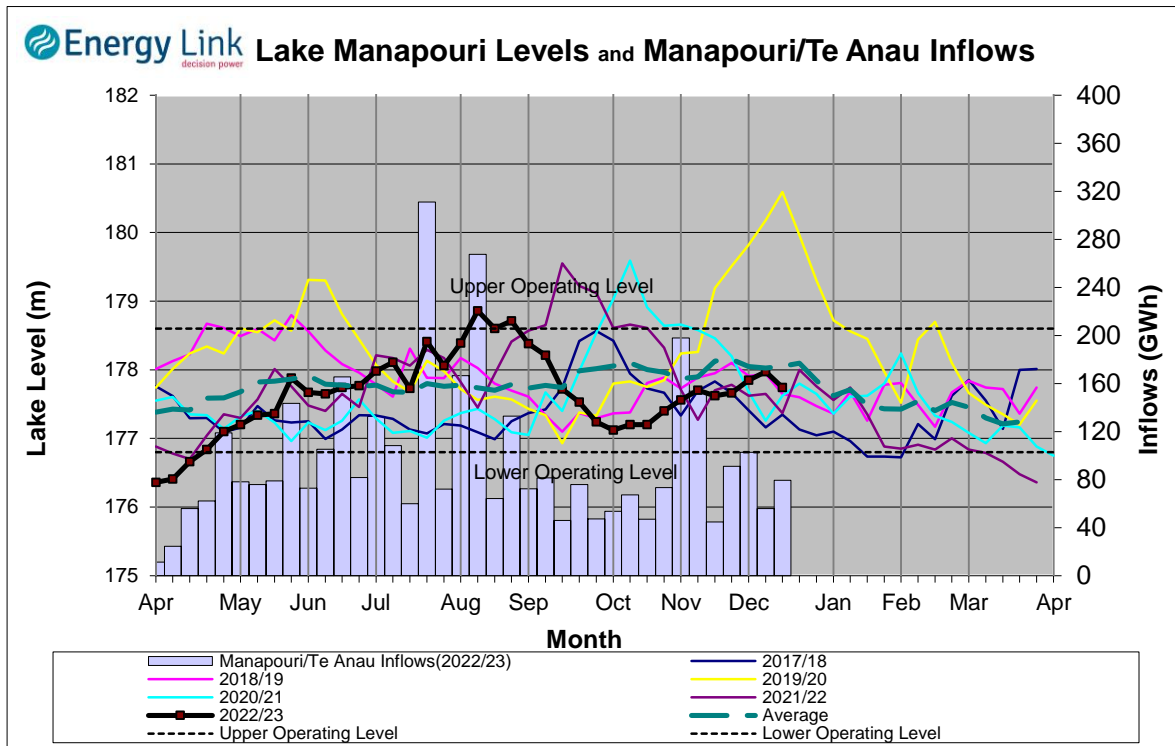
Generation - Average generation was 1.3% higher at 487 MW.

Hydro Spill - Estimate Spill is 26 cumecs.

River Flows - Total outflows from the lakes and Shotover River fell to 562.8 cumecs. This comprised of 44 cumecs from Lake Hawea, 249 cumecs from Lake Wanaka, 212 cumecs from Lake Wakatipu and 58 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 3.8% to 307 GWh with Lake Manapouri ending the week 68.3% nominally full and Lake Te Anau ending the week 71.2% nominally full.

Inflows - Total inflows into the Manapouri System increased 42% to 79 GWh.

Generation - Average generation was 34.4% higher at 545 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 17.4 cumecs.

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

