



Thursday, 02 December 2021

Issue: 1285

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)	2310	445	2755	454	3209
Storage Change (GWh)	75	-24	51	-14	38

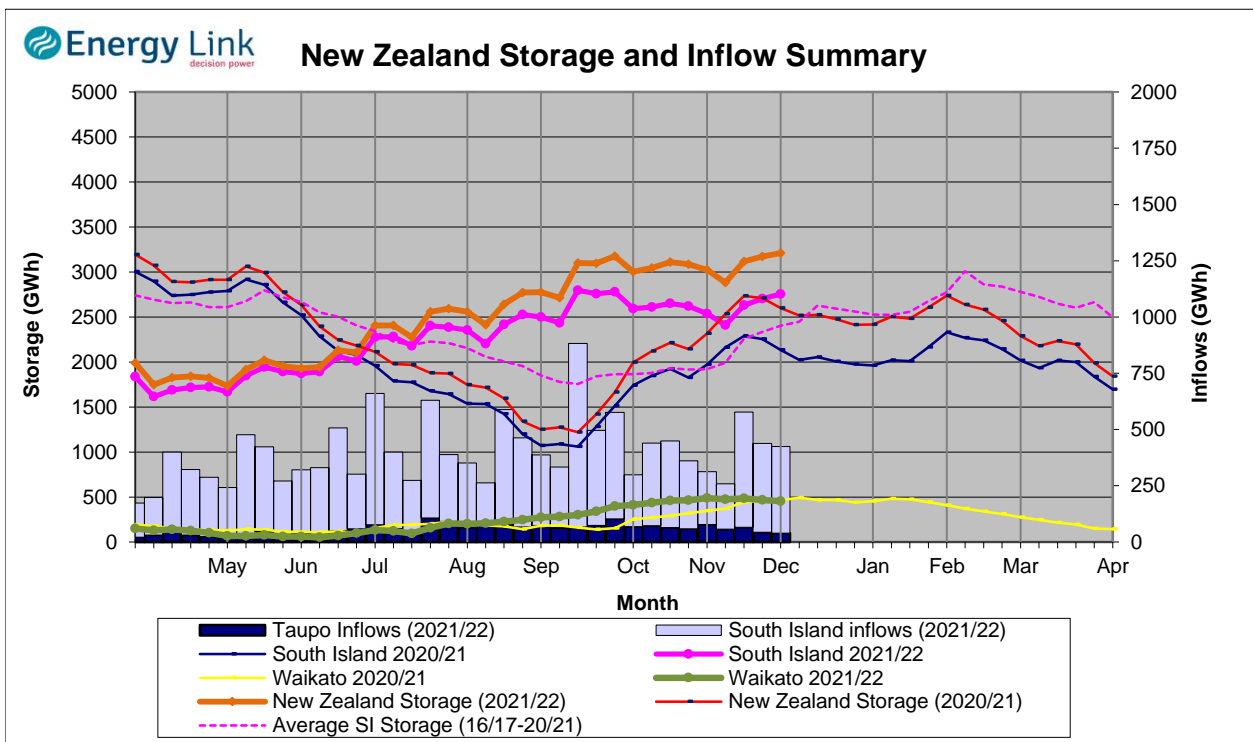
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2629	454	3084

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 37.6 GWh over the last week. South Island controlled storage increased 3.4% to 2310 GWh; South Island uncontrolled storage decreased 5.1% to 445 GWh; with Taupo storage decreasing 3% to 454 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	319	370	2065	454	3209
Last Week	341	366	1997	468	3172
% Change	-6.3%	1.2%	3.4%	-3.0%	1.2%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	93	80	211	39	424
Last Week	141	86	167	44	438
% Change	-34.4%	-6.9%	26.7%	-10.1%	-3.3%

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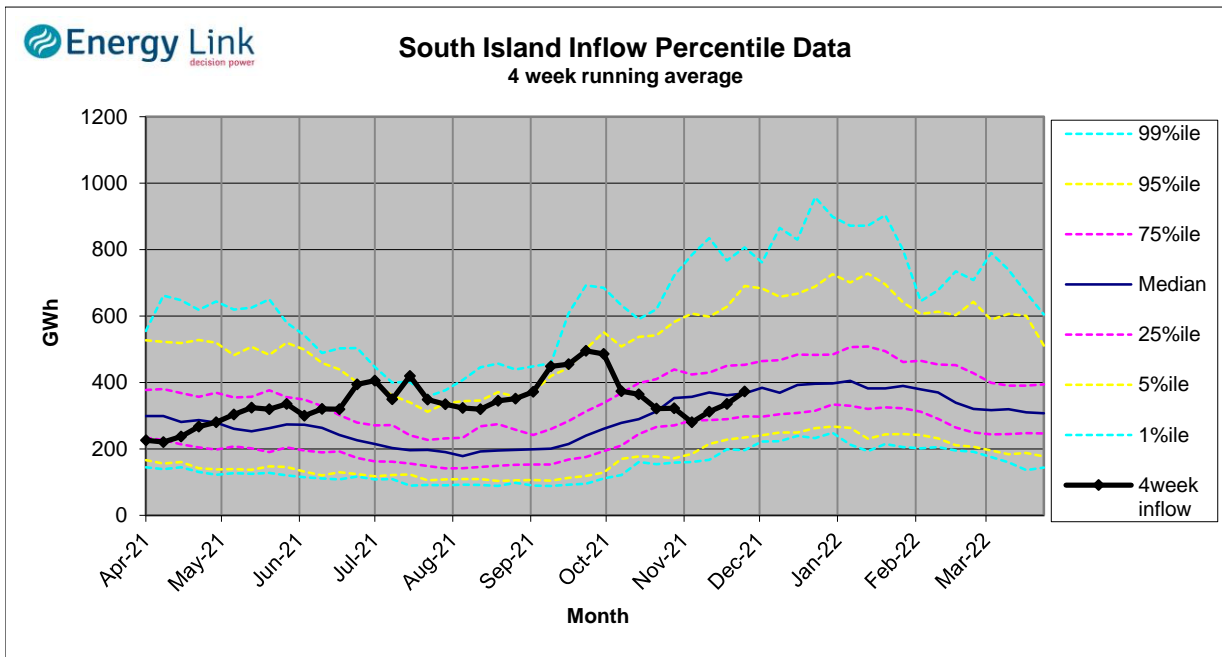
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.62	104	20	3
	Te Anau	202.30	215		
Clutha	Wakatipu	309.96	53	193	2
	Wanaka	277.54	72	257	-3
	Hawea	344.66	245	36	-16
Waitaki	Tekapo	710.04	805		
	Pukaki	528.17	1260		
Waikato	Taupo	356.96	454		

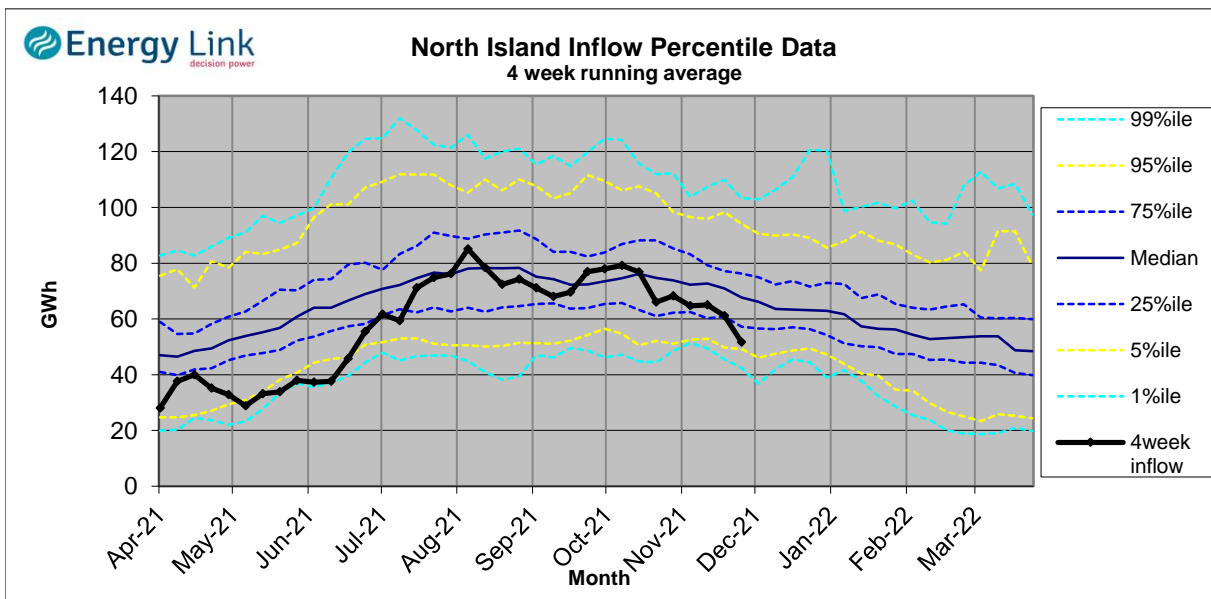
Inflow Summary

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.

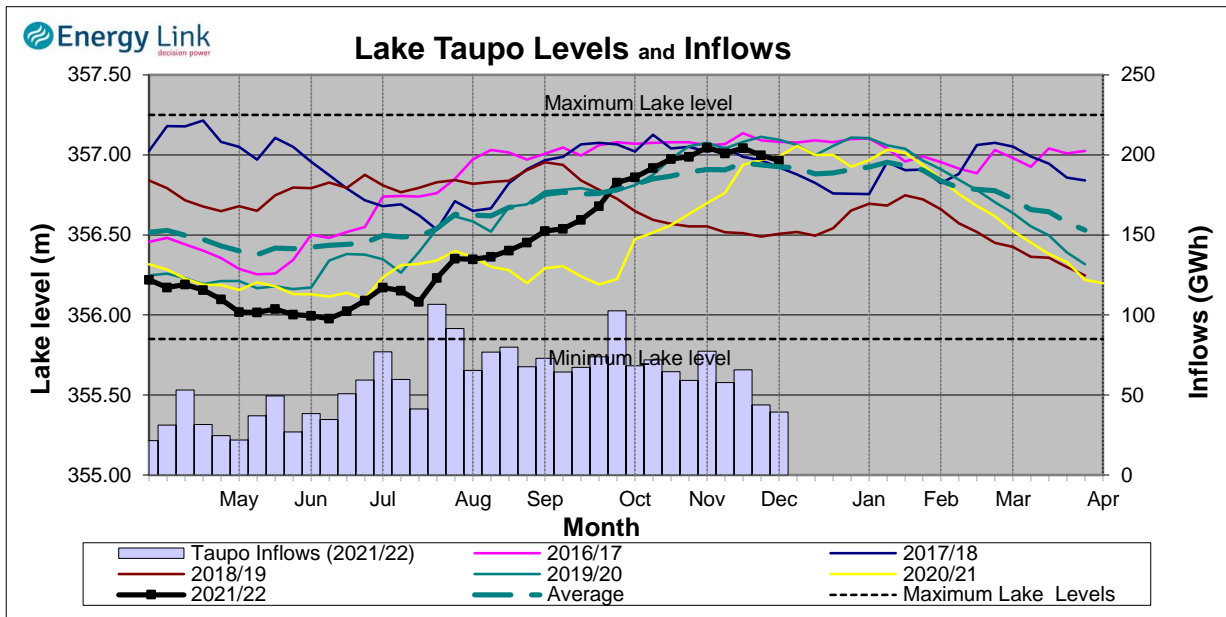
South Island Inflows - The past four weeks of S. I. inflows rank as the 43rd wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 8th driest on record.



Waikato System

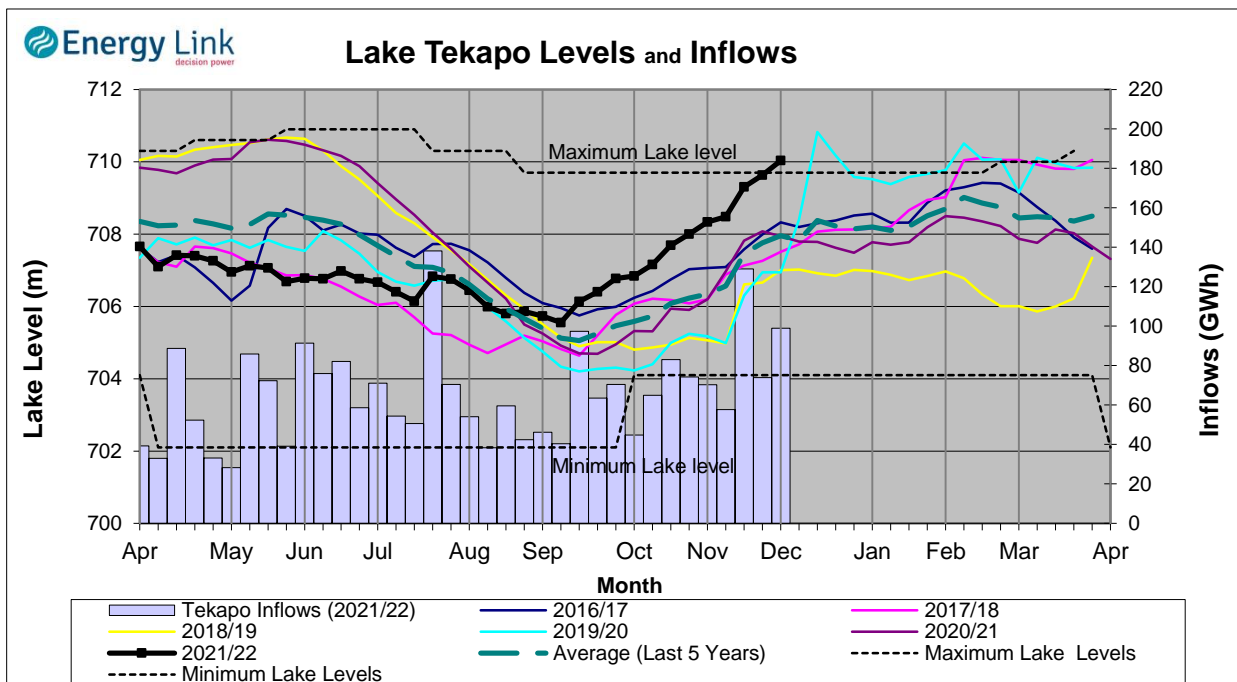


Lake Levels - Lake Taupo storage fell to 79.6% of nominal full at 454 GWh.

Inflows - Inflows decreased 10.1% to 39 GWh.

Generation - Average generation decreased 1.4% to 406 MW.

Tekapo



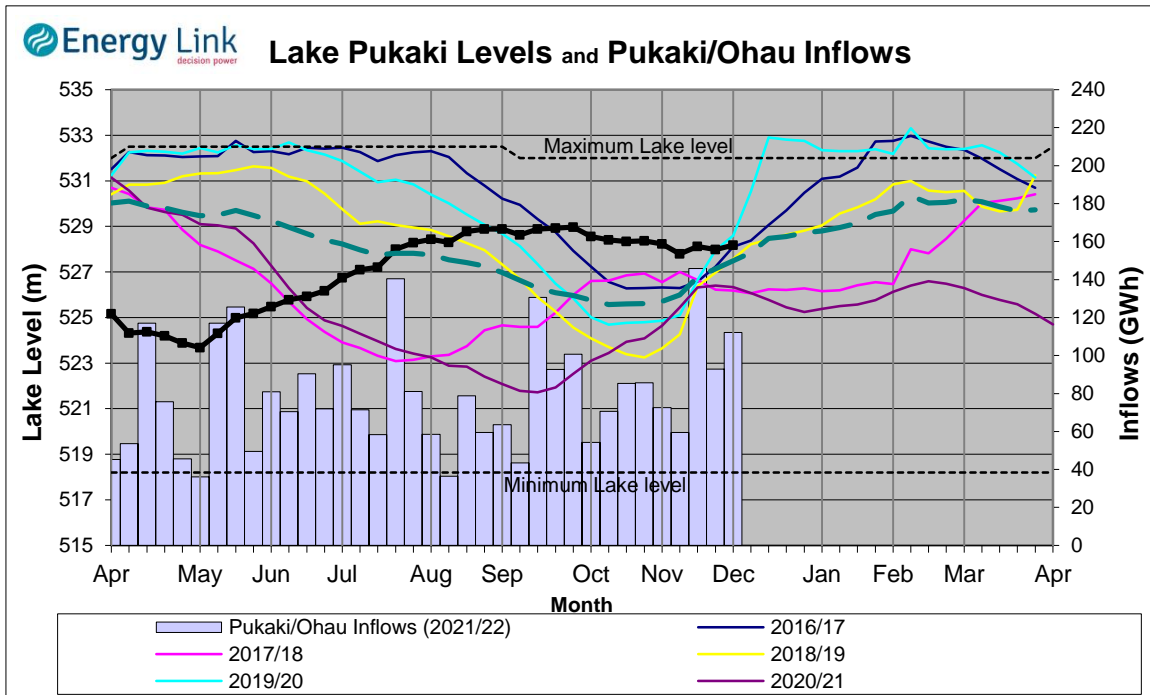
Lake Levels - Lake Tekapo ended the week 111% nominally full with storage increasing to 805 GWh.

Inflows - Inflows into tekapo increased 34% to 99 GWh.

Generation - Average Tekapo generation increased 9.8% to 88.9 MW.

Hydro Spill - Lake Tekapo spill was 19.6 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 71% nominally full with storage increasing to 1260 GW

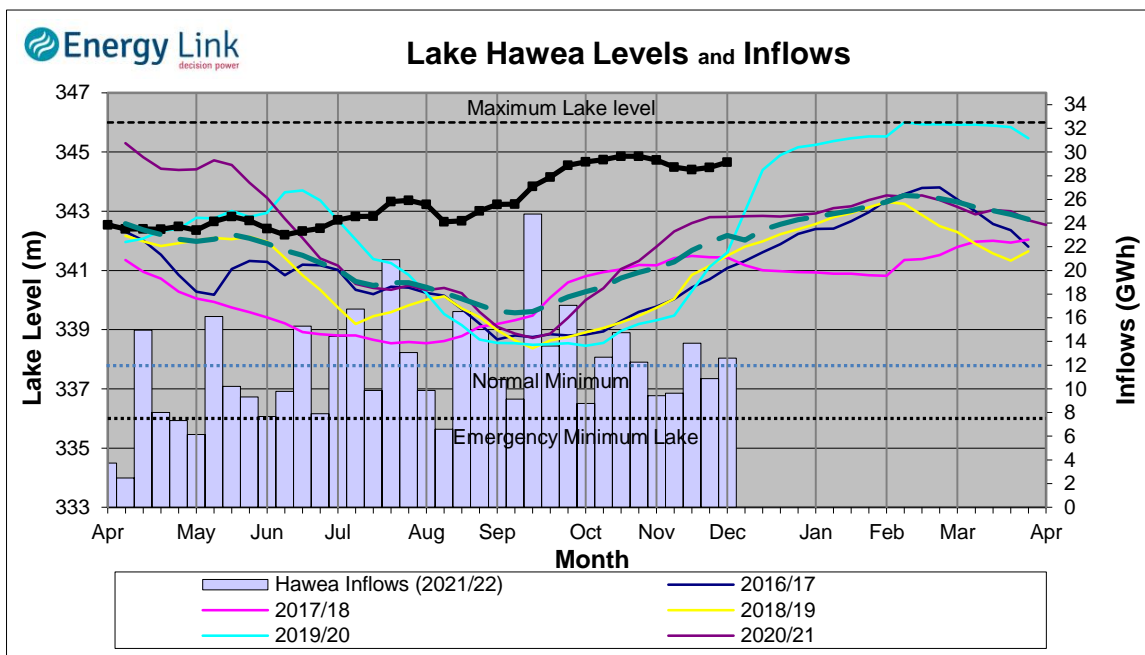
Inflows - Inflows into the Waitaki System increased 20.9% to 112 GWh.

Generation - Average Waikati generation decreased 10.2% to 829.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 32.2 cumecs while Waitaki River flows were lower than last week averaging 364.9 cumecs.

Clutha System



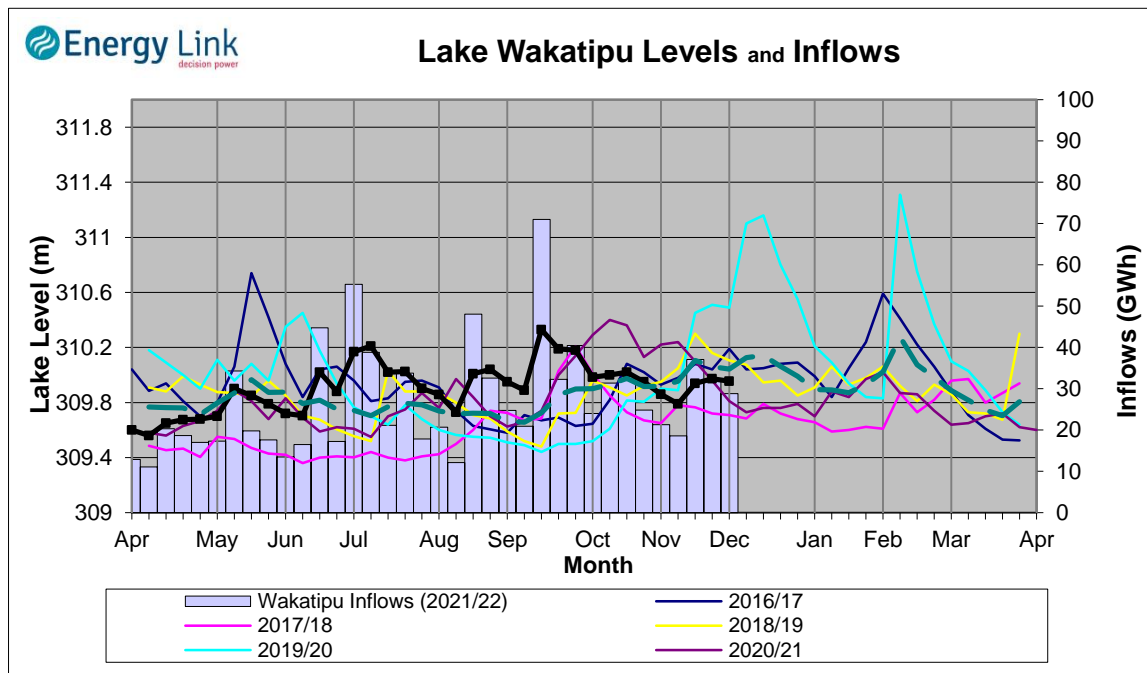
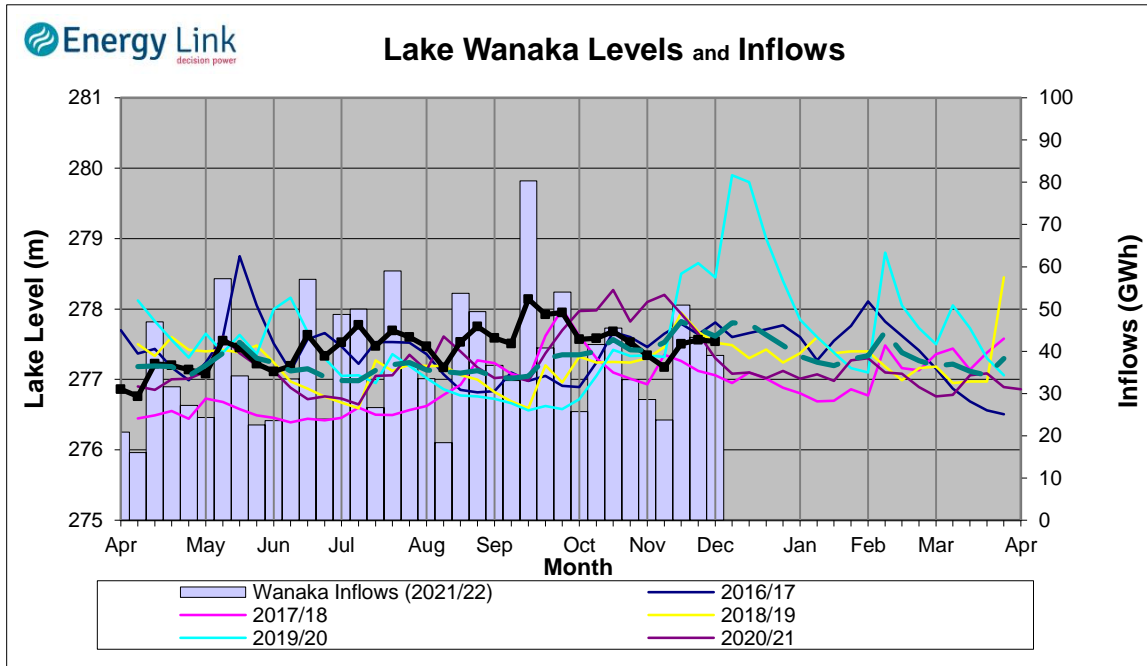
Lake Levels - Total storage for the Clutha System increased by 1.2% to 370 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 82.8%, 63.3% and 50.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 6.9% lower at 80 GWh.

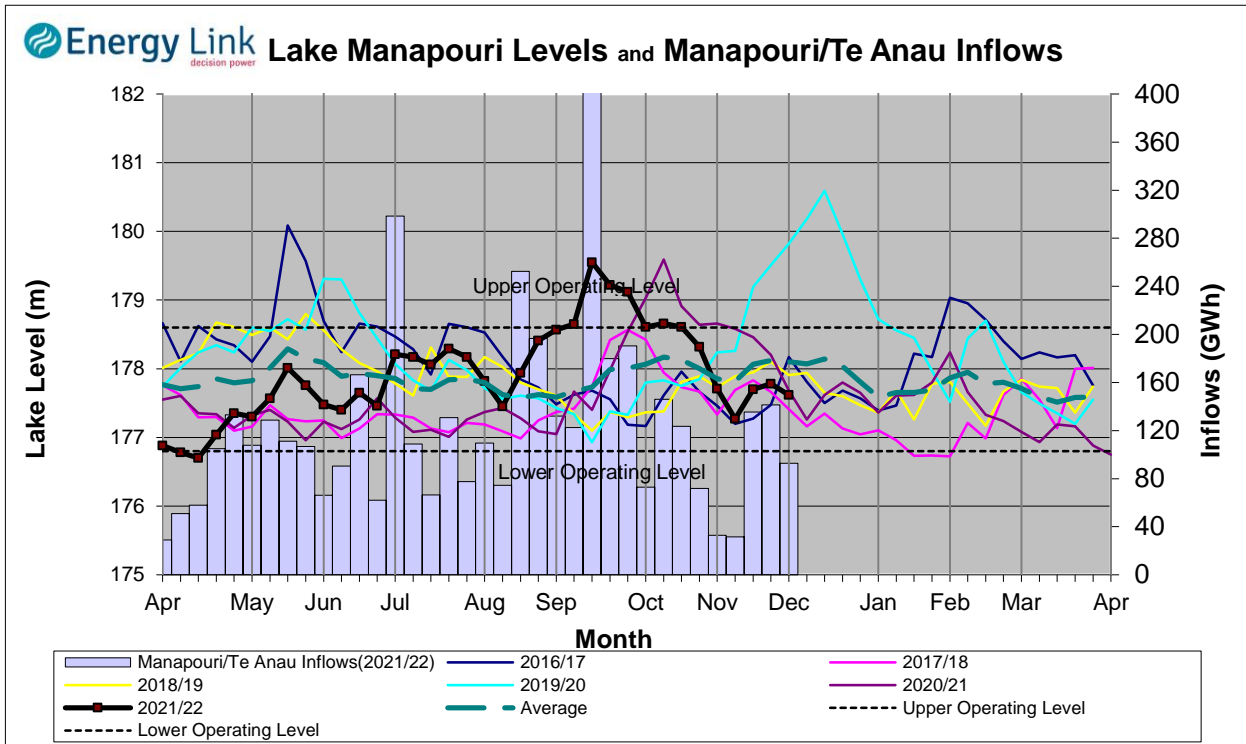
Generation - Average generation was 2% lower at 517 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 537.2 cumecs. This comprised of 36 cumecs from Lake Hawea, 257 cumecs from Lake Wanaka, 193 cumecs from Lake Wakatipu and 51 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 6.3% to 319 GWh with Lake Manapouri ending the week 63.9% nominally full and Lake Te Anau ending the week 78.3% nominally full.

Inflows - Total inflows into the Manapouri System decreased 34.4% to 93 GWh.

Generation - Average generation was 20.6% higher at 680 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 19.6 cumecs.

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

