



Thursday, 25 November 2021

Issue: 1284

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)	2235	469	2704	468	3172
Storage Change (GWh)	21	52	73	-18	55

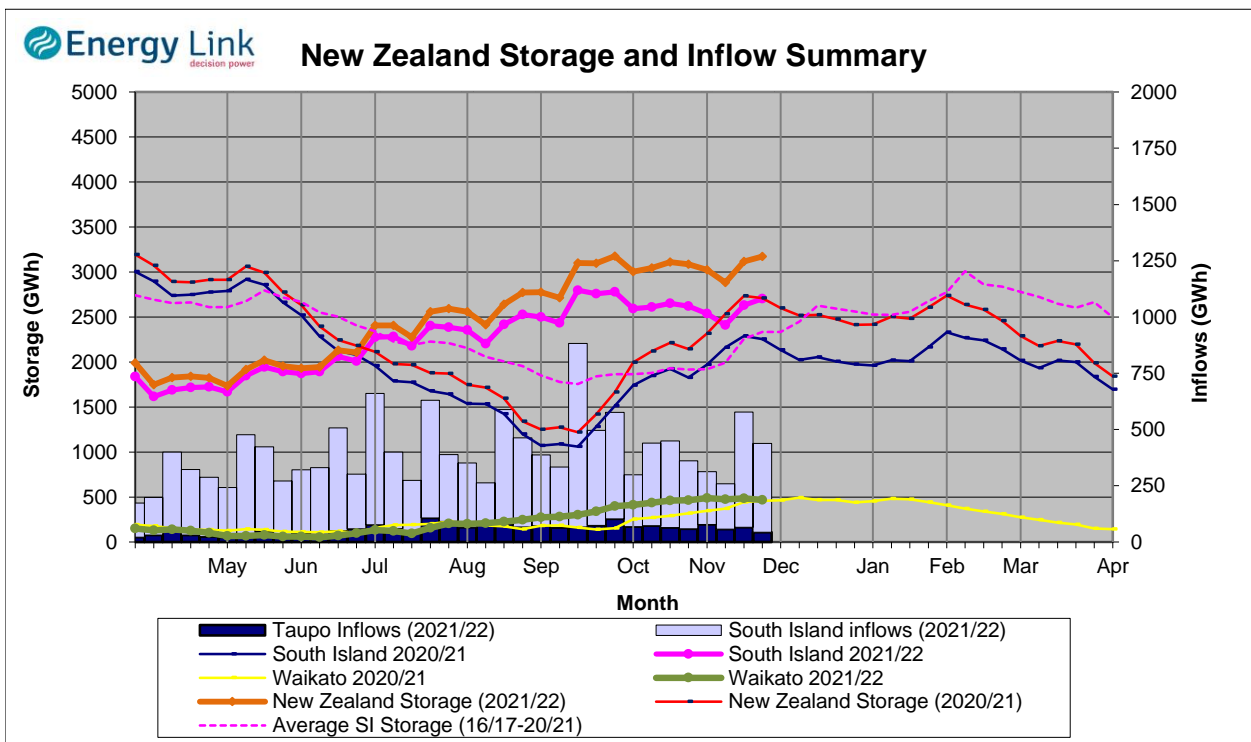
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2576	468	3044

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 54.7 GWh over the last week. South Island controlled storage increased 0.9% to 2235 GWh; South Island uncontrolled storage increased 12.4% to 469 GWh; with Taupo storage decreasing 3.7% to 468 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	341	366	1997	468	3172
Last Week	294	358	1979	486	3117
% Change	15.9%	2.2%	0.9%	-3.7%	1.8%
Inflow (GWh)					
This Week	141	86	167	44	438
Last Week	135	102	275	66	578
% Change	4.4%	-15.2%	-39.3%	-33.4%	-24.2%

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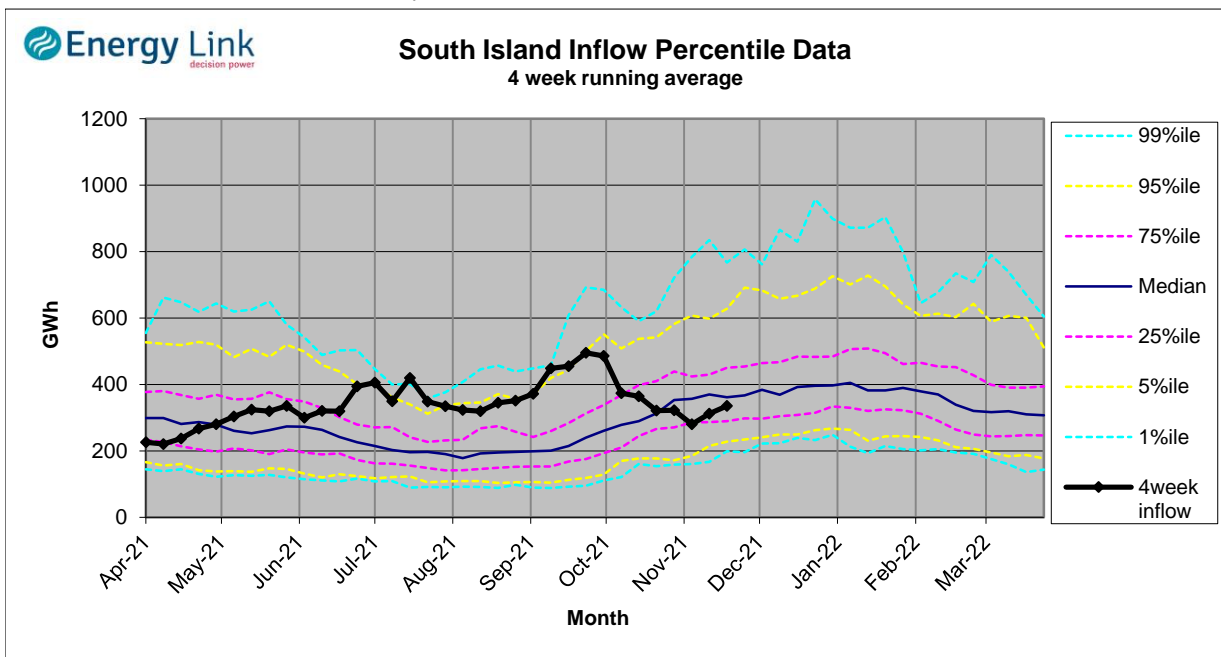
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.78	113	17	-2
	Te Anau	202.38	227		
Clutha	Wakatipu	309.97	55	191	26
	Wanaka	277.56	74	260	
	Hawea	344.48	238	52	
Waitaki	Tekapo	709.63	761		
	Pukaki	527.99	1236		
Waikato	Taupo	357.00	468		

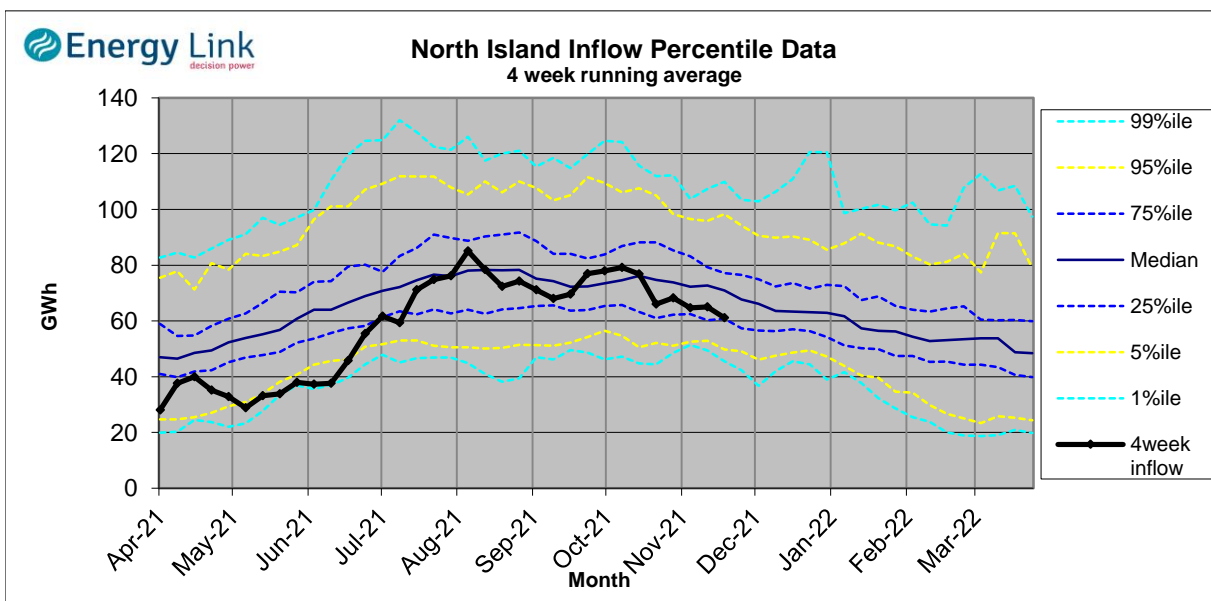
Inflow Summary

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.

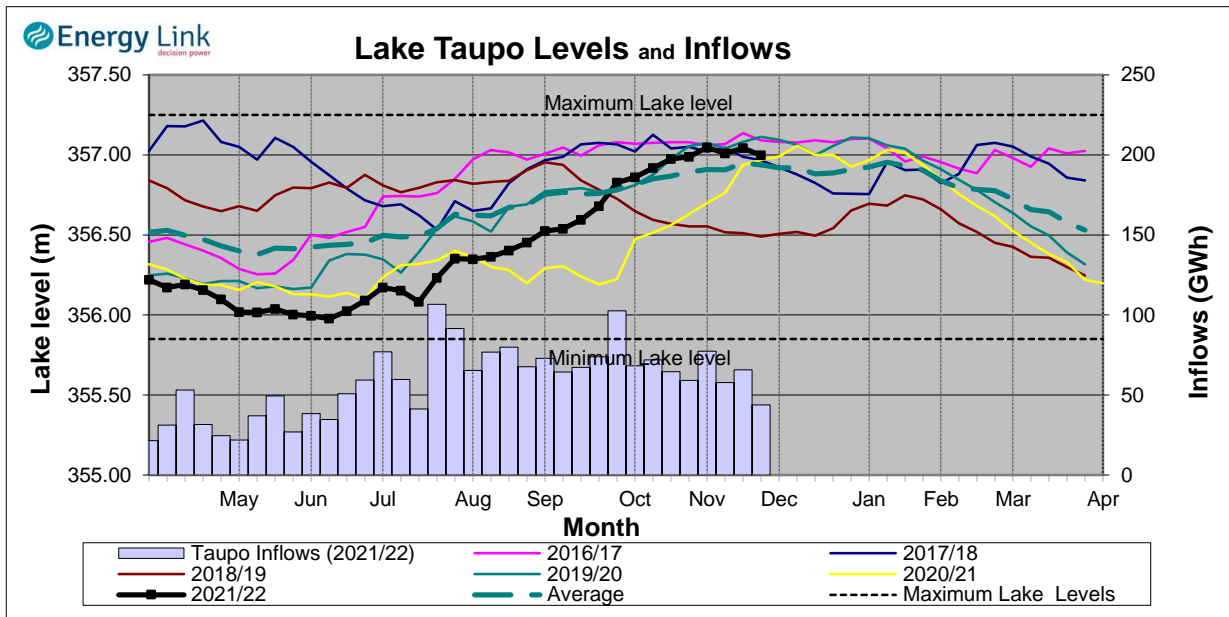
South Island Inflows - The past four weeks of S. I. inflows rank as the 36th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 24th driest on record.



Waikato System

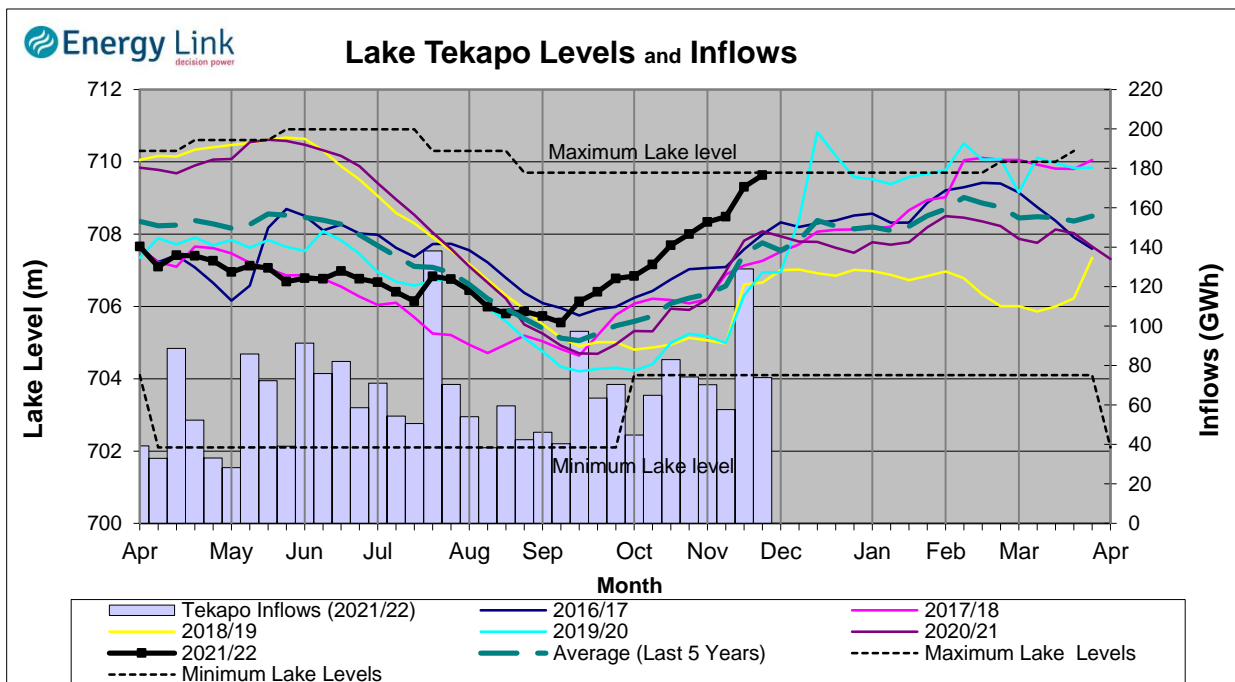


Lake Levels - Lake Taupo storage fell to 82% of nominal full at 468 GWh.

Inflows - Inflows decreased 33.4% to 44 GWh.

Generation - Average generation increased 10.6% to 411.7 MW.

Tekapo



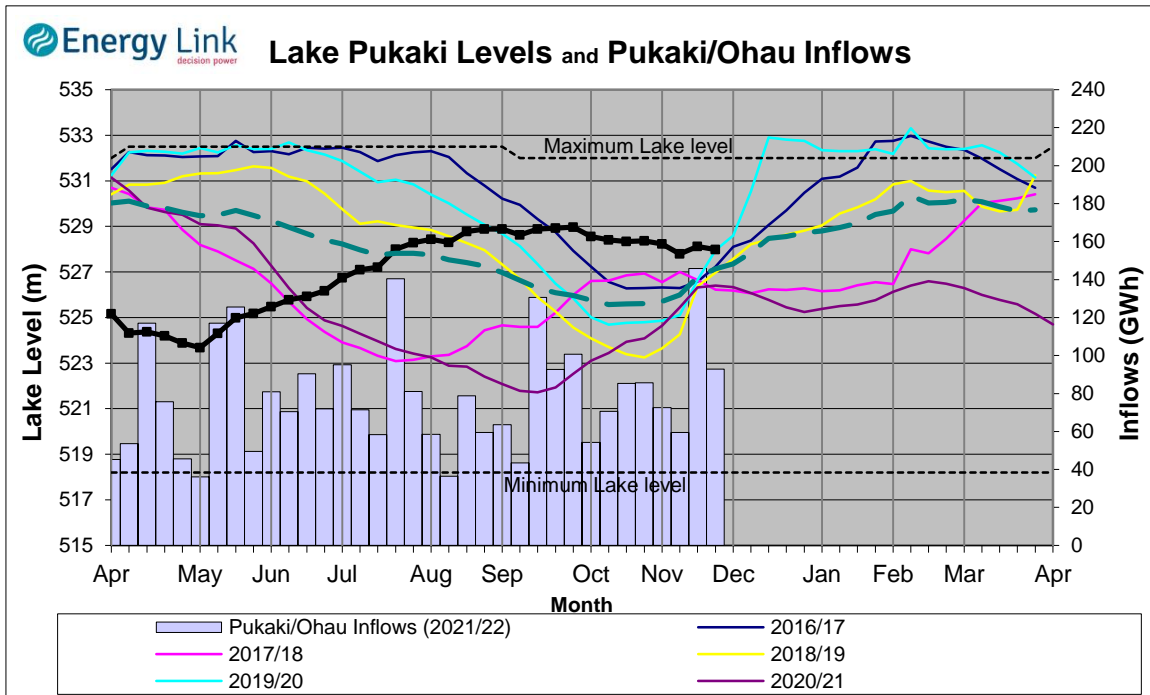
Lake Levels - Lake Tekapo ended the week 105% nominally full with storage increasing to 761 GWh.

Inflows - Inflows into tekapo decreased 42.7% to 74 GWh.

Generation - Average Tekapo generation increased 3.6% to 80.9 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 69% nominally full with storage falling to 1236 GWh.

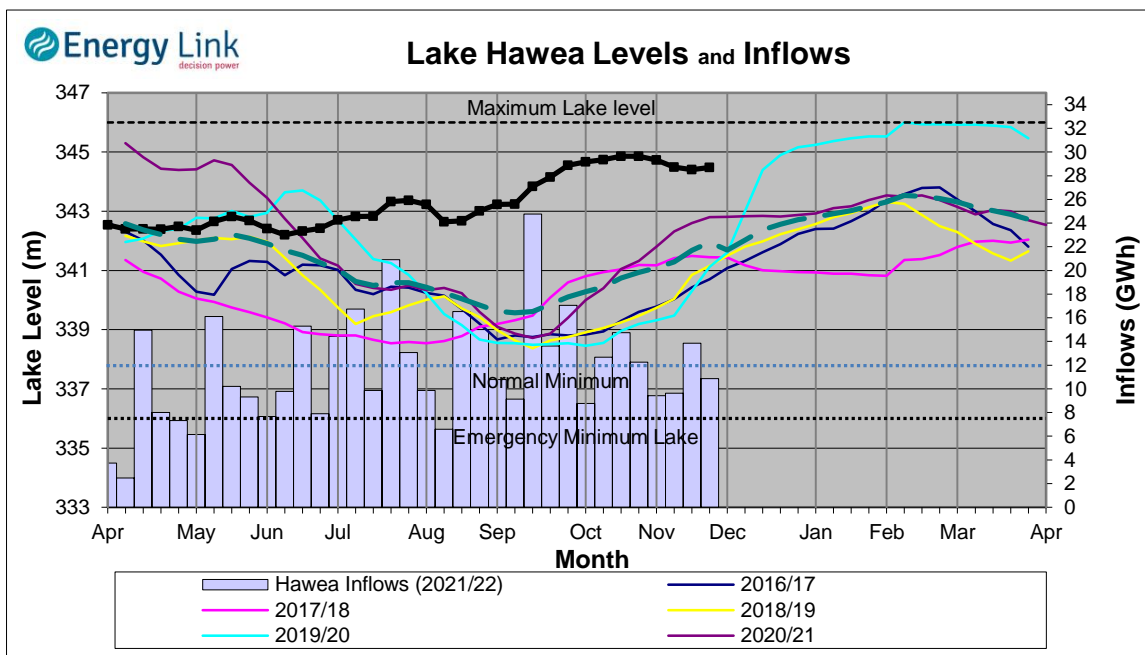
Inflows - Inflows into the Waitaki System decreased 36.3% to 93 GWh.

Generation - Average Waikati generation increased 5% to 923.5 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 28.7 cumecs while Waitaki River flows were higher than last week averaging 383.7 cumecs.

Clutha System



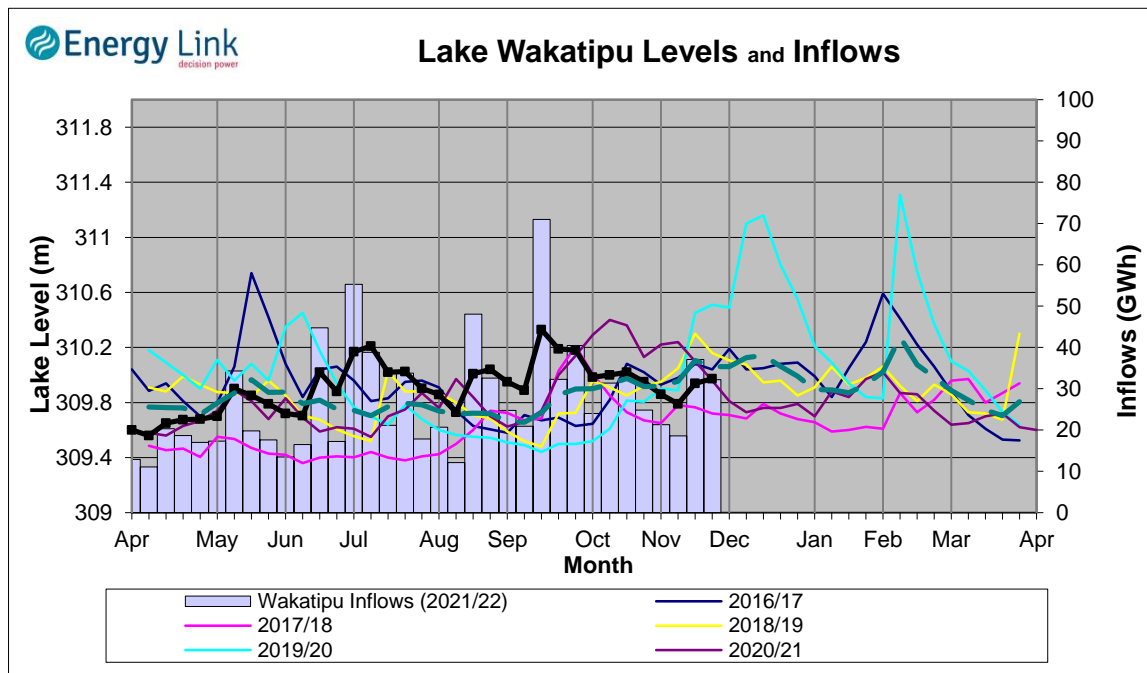
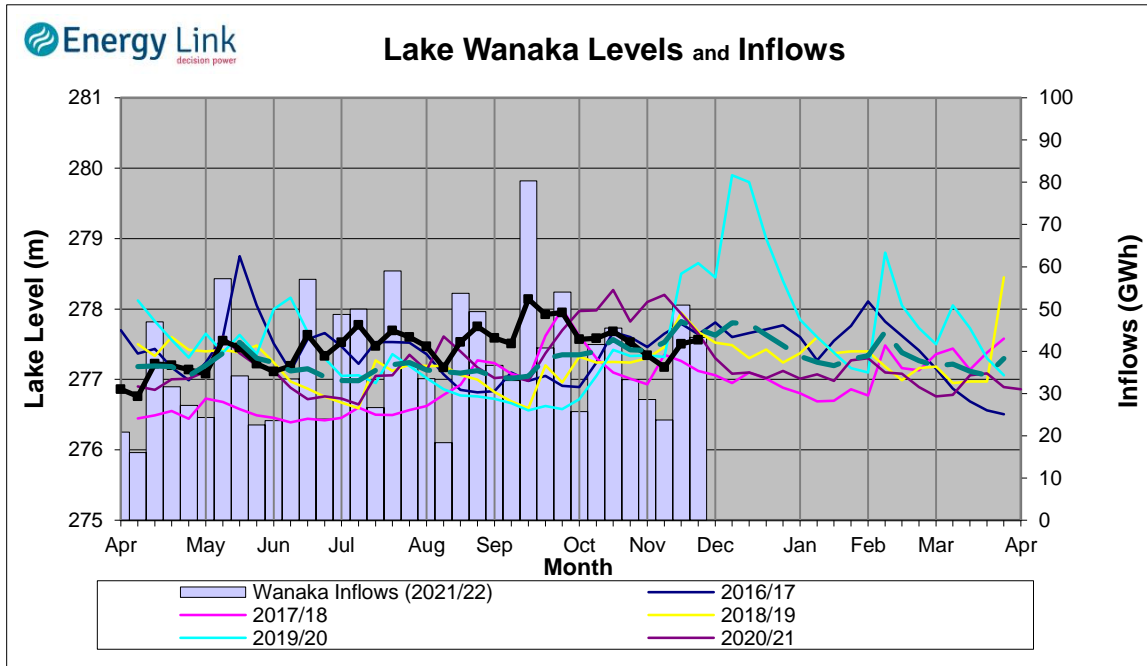
Lake Levels - Total storage for the Clutha System increased by 2.2% to 366 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 80.5%, 64.3% and 51.6% nominally full respectively.

Inflows - Total Inflows into the Clutha System 15.2% lower at 86 GWh.

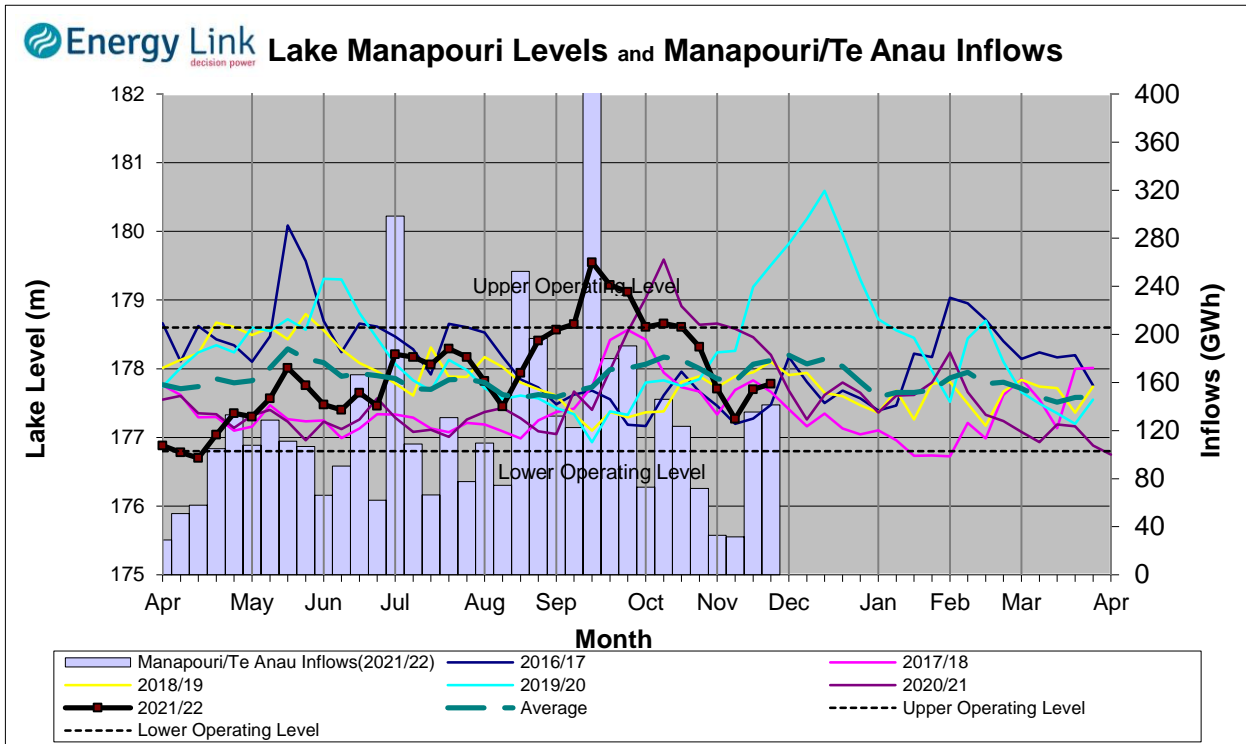
Generation - Average generation was 1% higher at 527 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 557.1 cumecs. This comprised of 52 cumecs from Lake Hawea, 260 cumecs from Lake Wanaka, 191 cumecs from Lake Wakatipu and 54 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 15.9% to 341 GWh with Lake Manapouri ending the week 69.8% nominally full and Lake Te Anau ending the week 82.6% nominally full.

Inflows - Total inflows into the Manapouri System increased 4.4% to 141 GWh.

Generation - Average generation was 33.5% higher at 564 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 16.8 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'.

