



Thursday, 21 October 2021

Issue: 1279

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)	2087	566	2652	459	3111
Storage Change (GWh)	52	-10	42	23	65

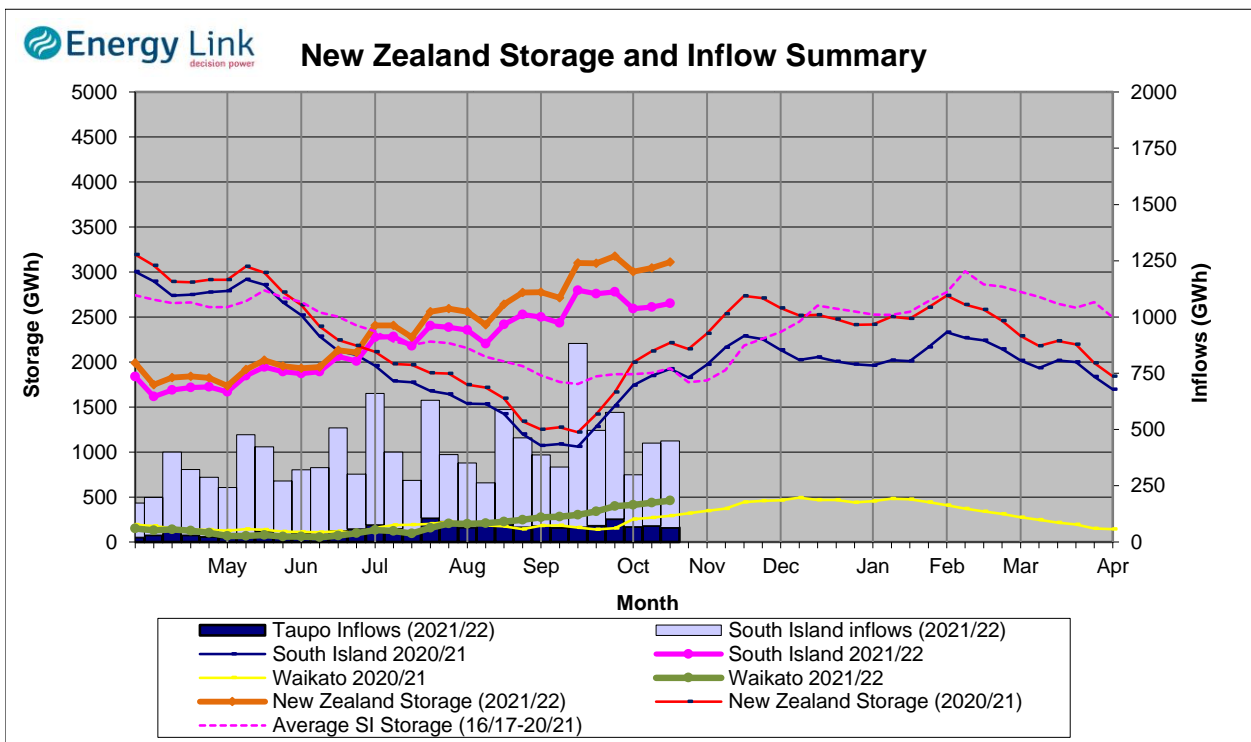
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2515	459	2973

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 65 GWh over the last week. South Island controlled storage increased 2.6% to 2087 GWh; South Island uncontrolled storage decreased 1.8% to 566 GWh; with Taupo storage increasing 5.3% to 459 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	428	390	1834	459	3111
Last Week	444	379	1787	436	3046
% Change	-3.7%	2.8%	2.7%	5.3%	2.1%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	124	93	168	65	449
Last Week	146	86	136	72	439
% Change	-15.4%	8.1%	24.2%	-10.2%	2.3%

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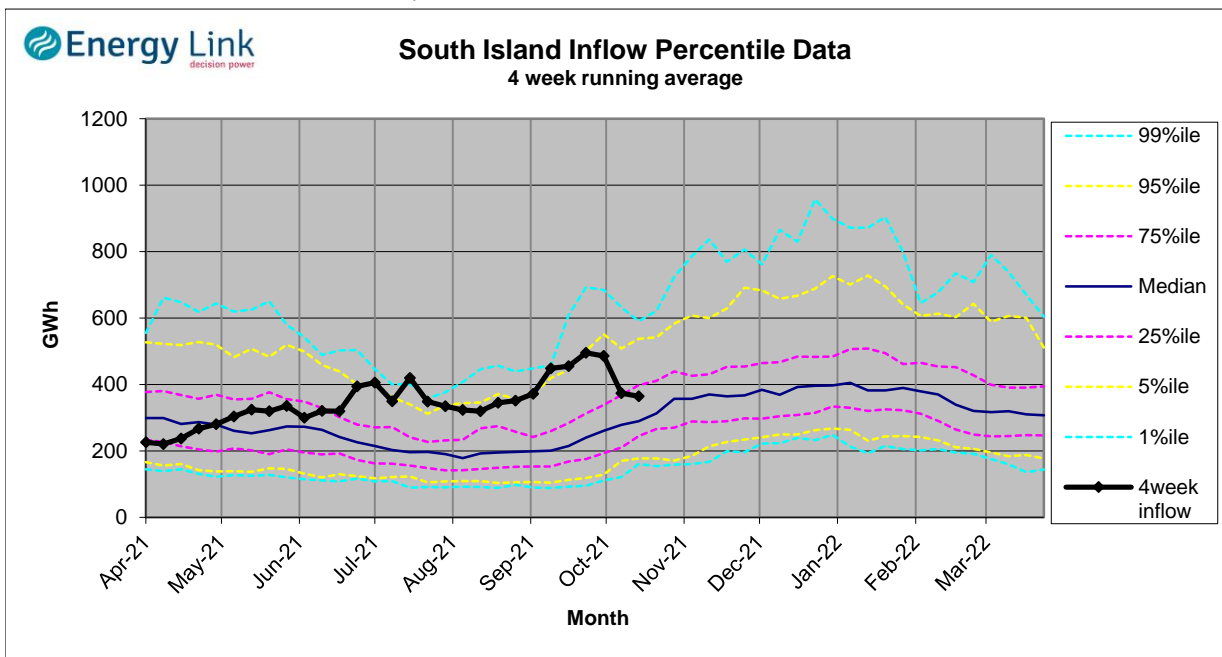
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.61	163	80	-16
	Te Anau	202.63	265		
Clutha	Wakatipu	310.02	58	198	4
	Wanaka	277.68	80	261	0
	Hawea	344.86	252	66	2
Waitaki	Tekapo	707.69	552		
	Pukaki	528.34	1283		
Waikato	Taupo	356.98	459		

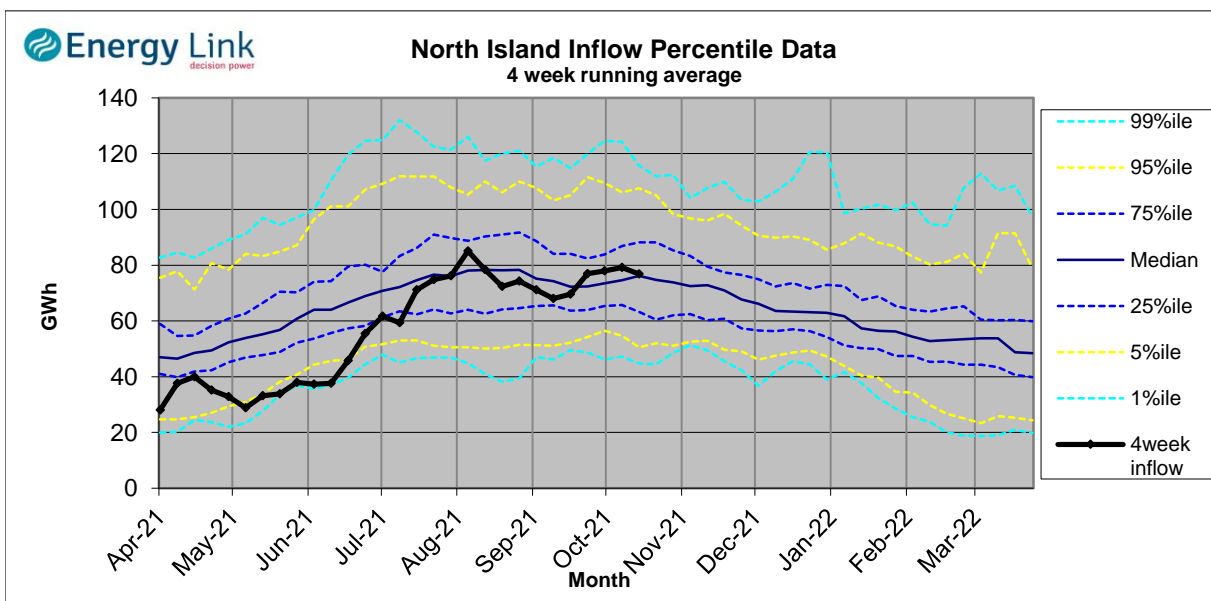
Inflow Summary

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.

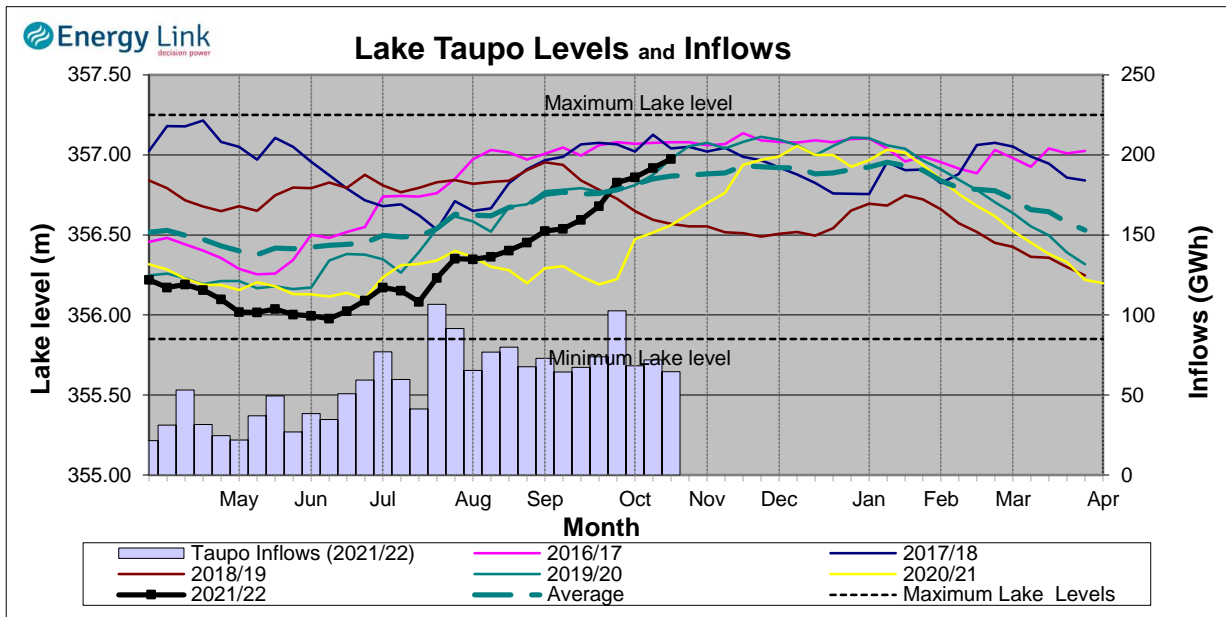
South Island Inflows - The past four weeks of S. I. inflows rank as the 33rd wettest on record.



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



Waikato System

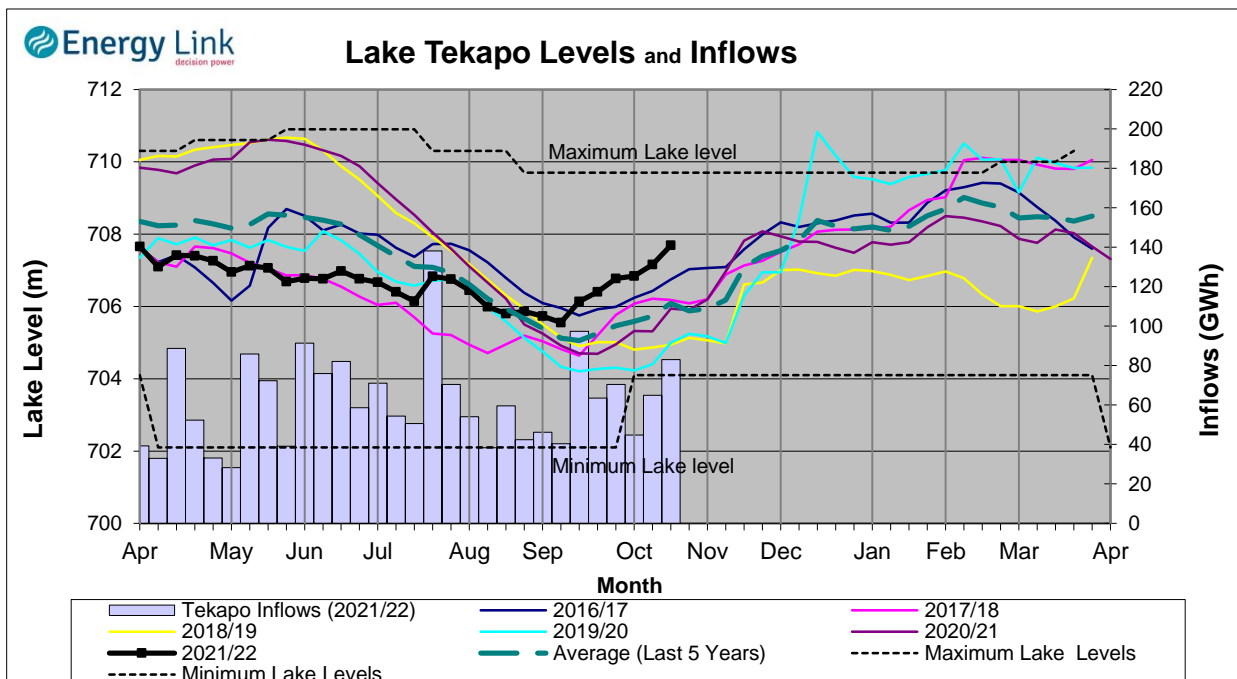


Lake Levels - Lake Taupo storage increased to 80.4% of nominal full at 459 GWh.

Inflows - Inflows decreased 10.2% to 65 GWh.

Generation - Average generation decreased 6% to 346 MW.

Tekapo



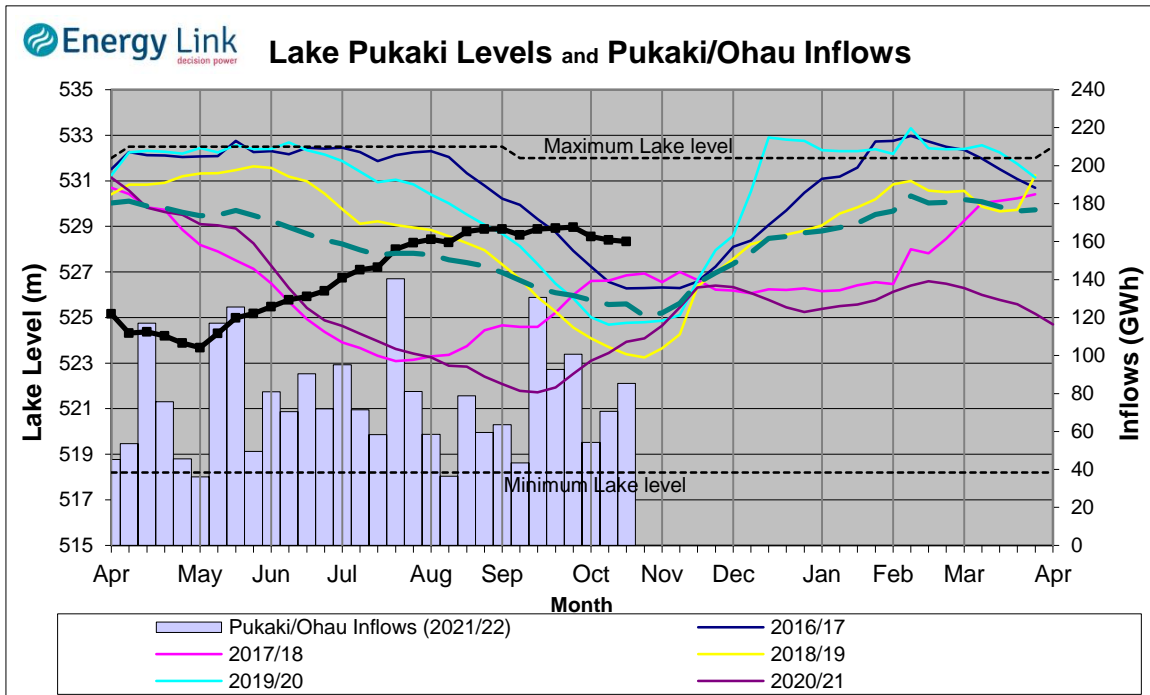
Lake Levels - Lake Tekapo ended the week 76% nominally full with storage increasing to 552 GWh.

Inflows - Inflows into tekapo increased 27.8% to 83 GWh.

Generation - Average Tekapo generation decreased 17.4% to 49.5 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 72% nominally full with storage falling to 1283 GWh.

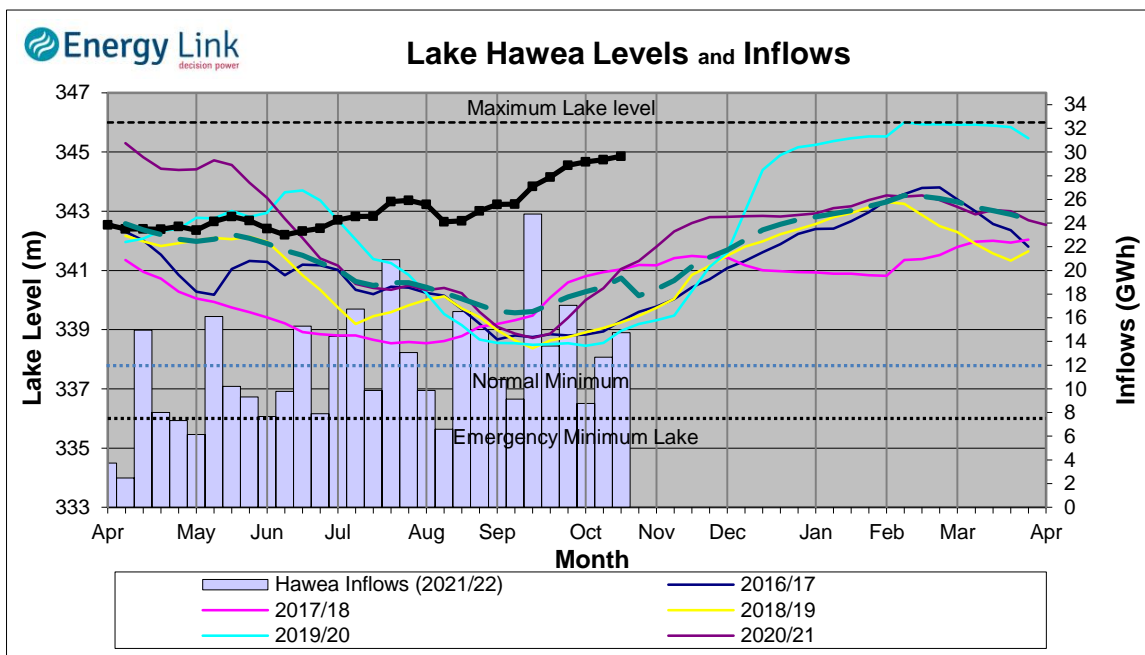
Inflows - Inflows into the Waitaki System increased 21% to 85 GWh.

Generation - Average Waikati generation decreased 4.5% to 779.7 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 46.8 cumecs while Waitaki River flows were lower than last week averaging 343.1 cumecs.

Clutha System



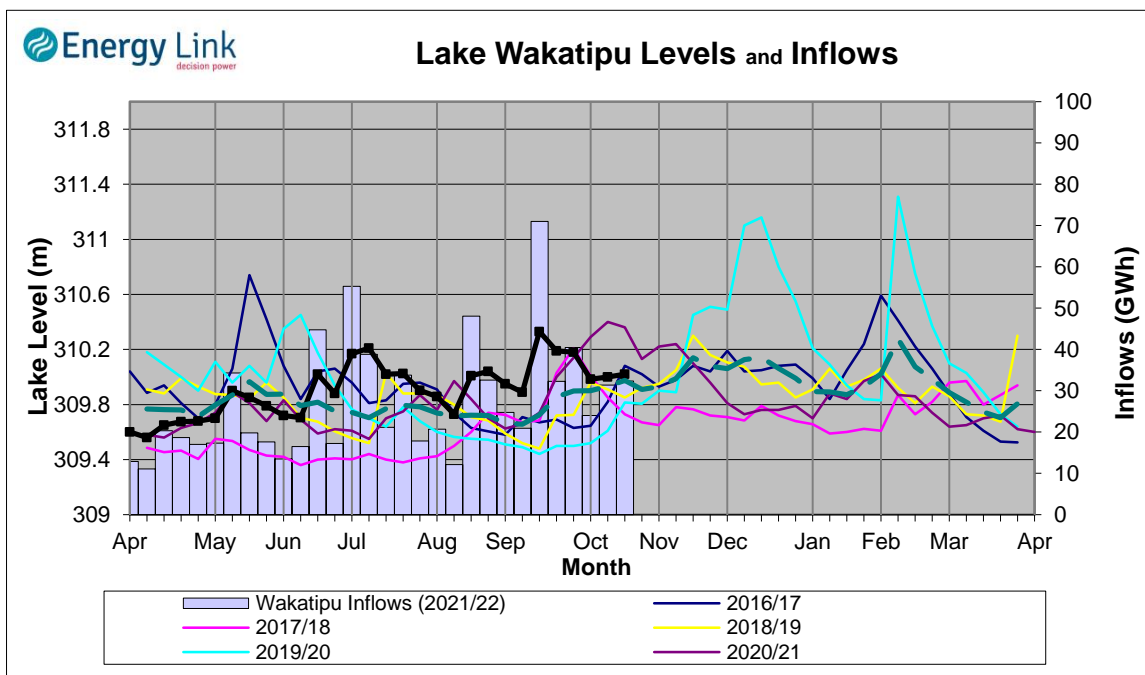
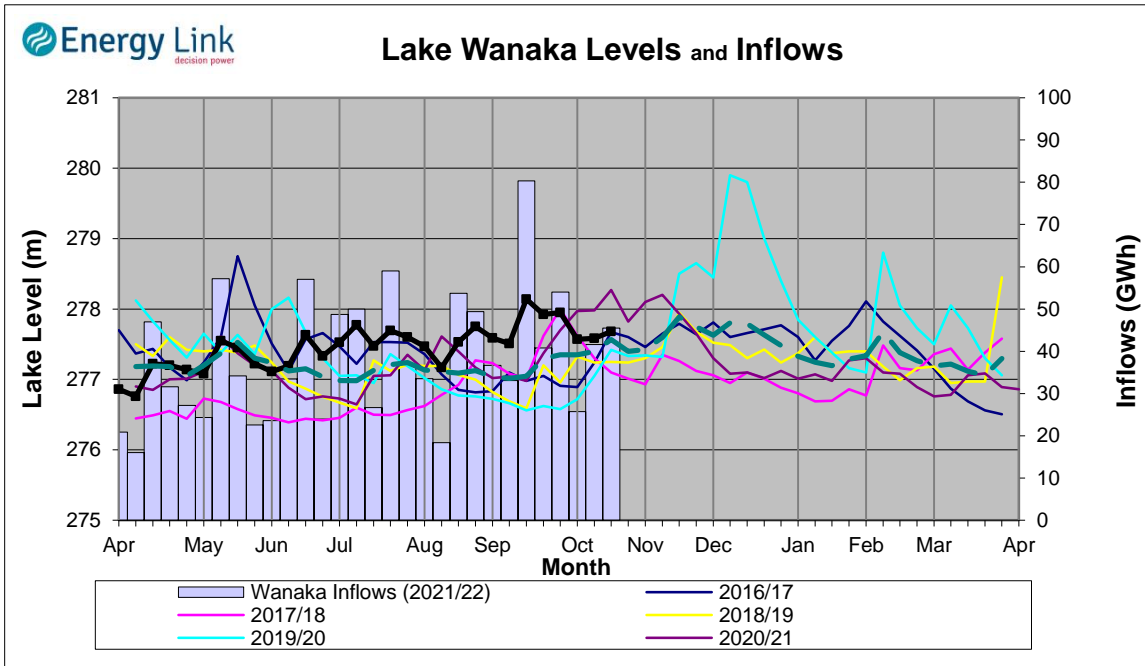
Lake Levels - Total storage for the Clutha System increased by 2.8% to 390 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 85.4%, 69.5% and 55% nominally full respectively.

Inflows - Total Inflows into the Clutha System 8.1% higher at 93 GWh.

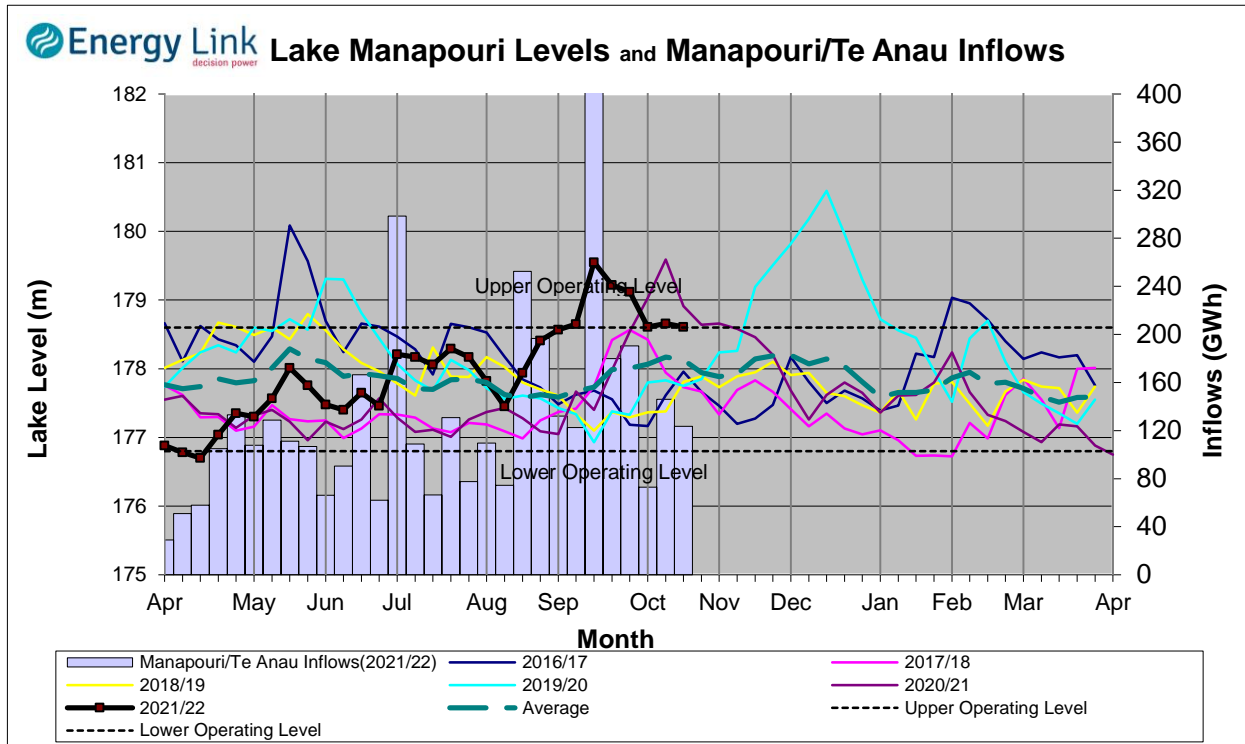
Generation - Average generation was 4.5% lower at 536 MW.

Hydro Spill - Estimate Spill is 8.4 cumecs.

River Flows - Total outflows from the lakes and Shotover River increased to 594.7 cumecs. This comprised of 66 cumecs from Lake Hawea, 261 cumecs from Lake Wanaka, 198 cumecs from Lake Wakatipu and 70 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 3.7% to 428 GWh with Lake Manapouri ending the week 100.4% nominally full and Lake Te Anau ending the week 96.2% nominally full.

Inflows - Total inflows into the Manapouri System decreased 15.4% to 124 GWh.

Generation - Average generation was 0.2% lower at 734 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 79.6 cumecs.

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

