



Thursday, 26 August 2021

Issue: 1271

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)	1902	624	2526	246	2772
Storage Change (GWh)	34	76	110	20	131

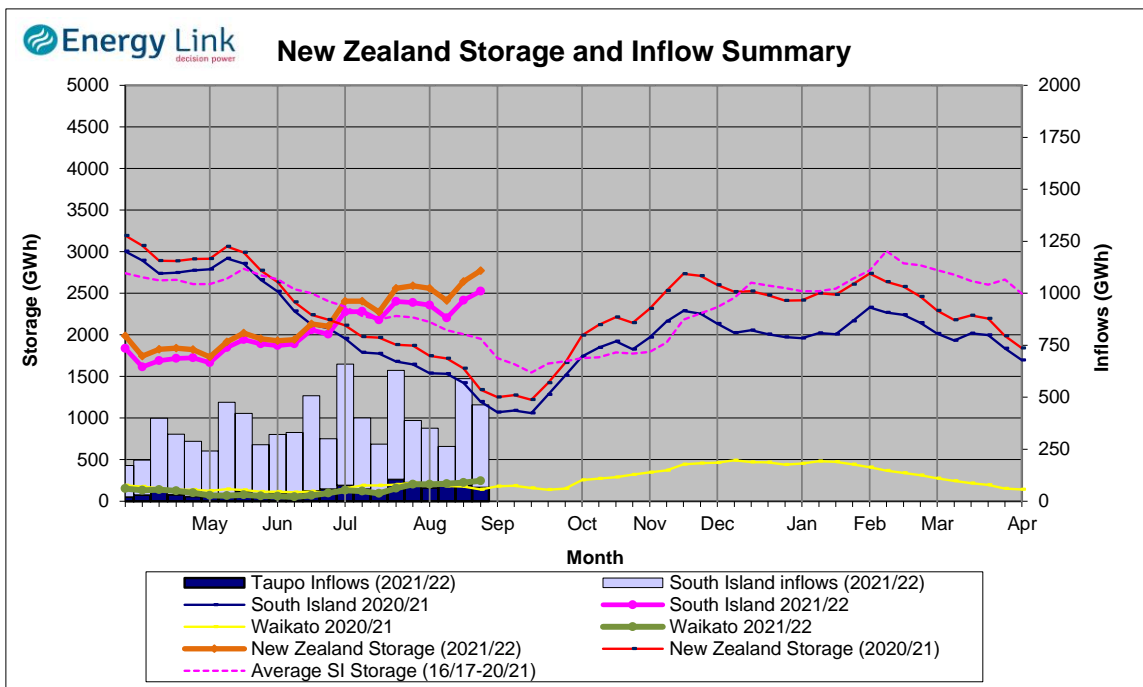
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2383	246	2629

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 130.6 GWh over the last week. South Island controlled storage increased 1.8% to 1902 GWh; South Island uncontrolled storage increased 13.8% to 624 GWh; with Taupo storage increasing 9% to 246 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	482	325	1719	246	2772
Last Week	419	300	1697	226	2641
% Change	14.9%	8.6%	1.3%	9.0%	4.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	197	97	102	68	463
Last Week	252	118	138	80	589
% Change	-22.1%	-18.1%	-26.3%	-15.5%	-21.4%

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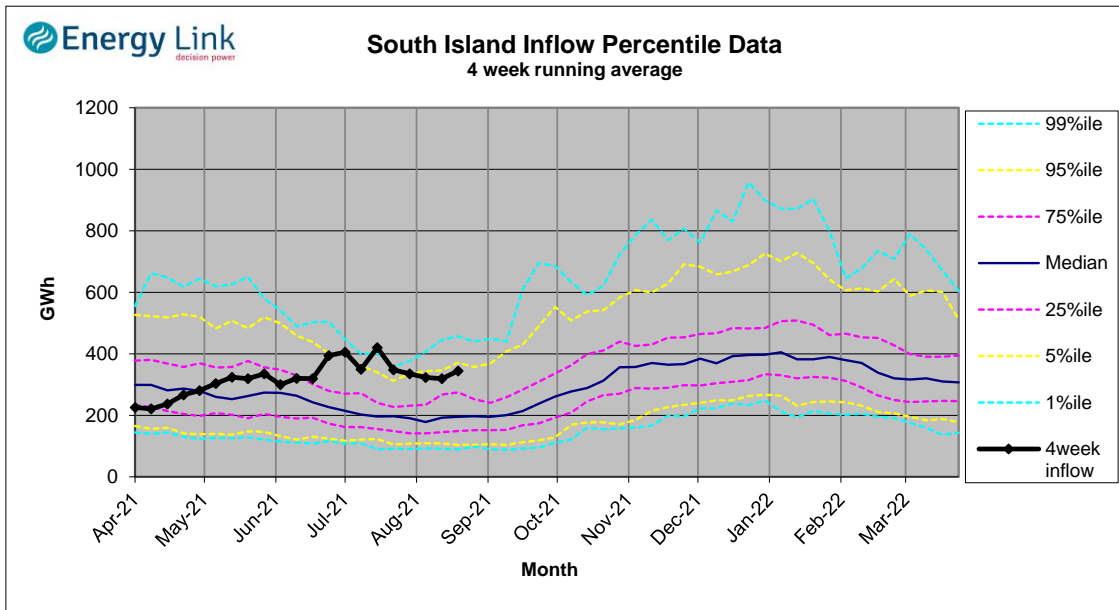
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.41	151	53	-18
	Te Anau	203.07	331		
Clutha	Wakatipu	310.04	60	194	22
	Wanaka	277.75	83	246	
	Hawea	343.01	183	15	
Waitaki	Tekapo	705.86	363		17
	Pukaki	528.89	1356		
Waikato	Taupo	356.45	246		-84

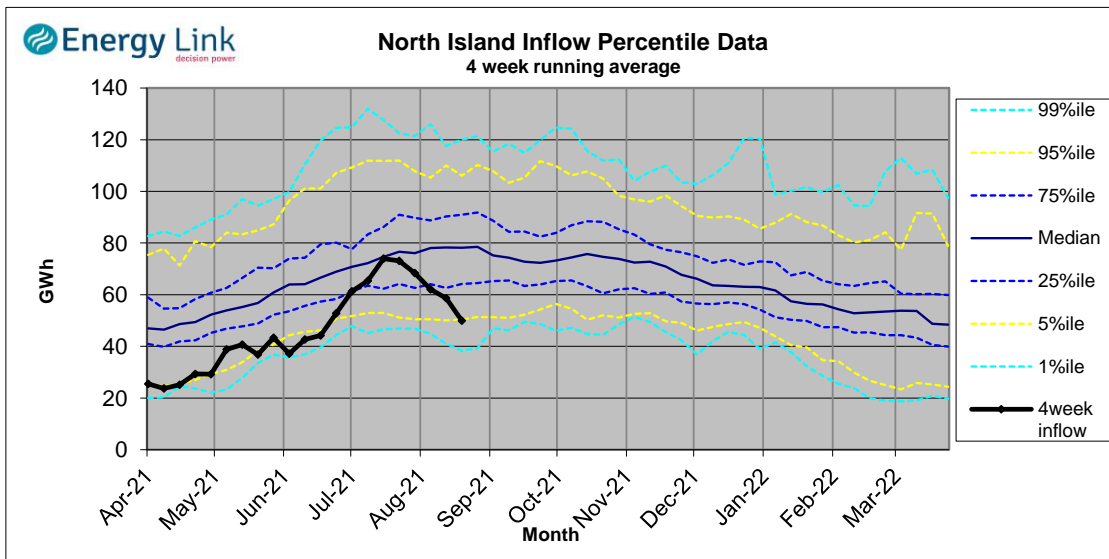
Inflow Summary

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.

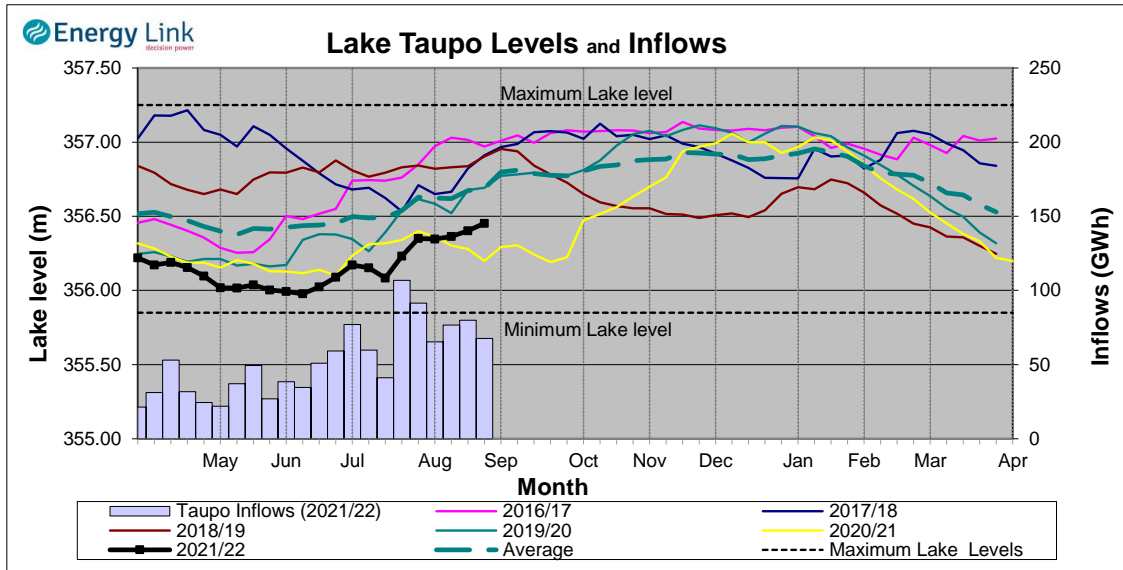
South Island Inflows - The past four weeks of S. I. inflows rank as the 7th wettest on record.



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



Waikato System

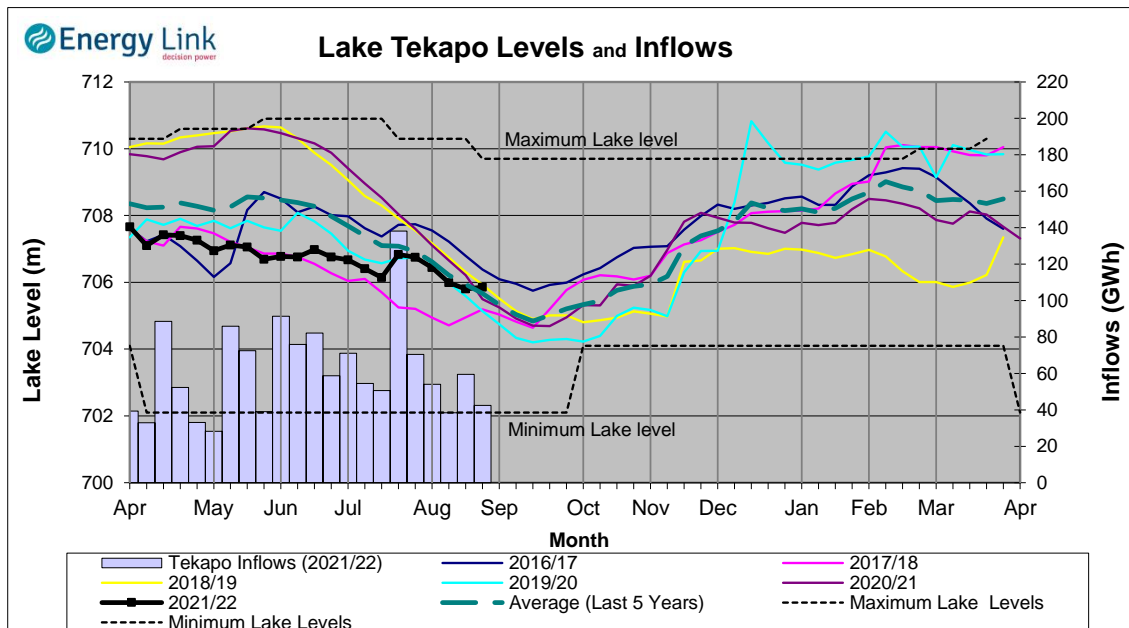


Lake Levels - Lake Taupo storage increased to 43.1% of nominal full at 246 GWh.

Inflows - Inflows decreased 15.5% to 68 GWh.

Generation - Average generation decreased 23.5% to 342.2 MW.

Tekapo



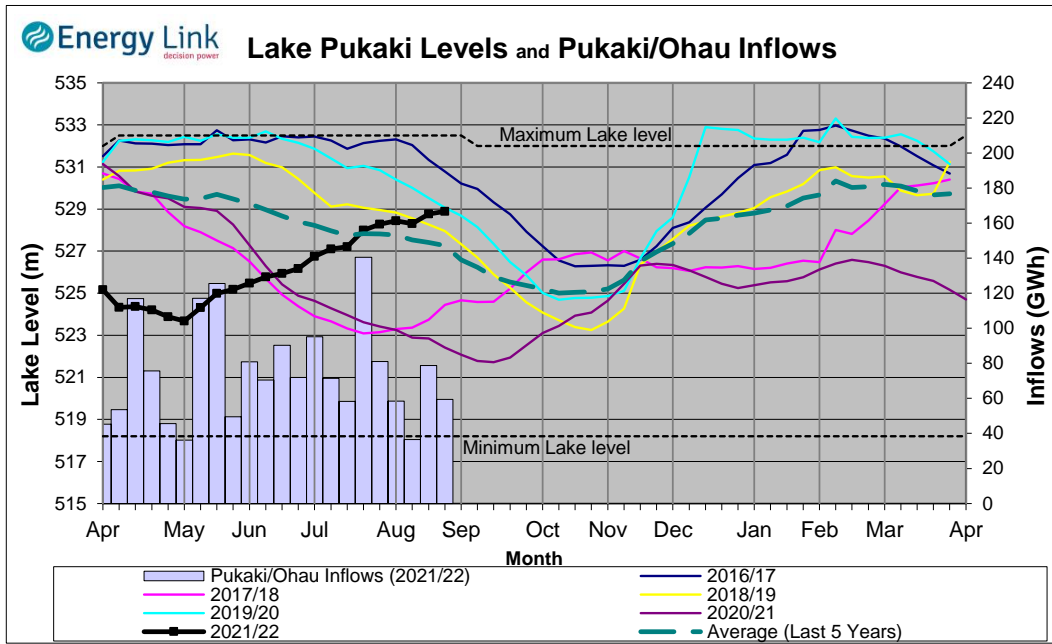
Lake Levels - Lake Tekapo ended the week 46% nominally full with storage increasing to 363 GWh.

Inflows - Inflows into tekapo decreased 28.8% to 42 GWh.

Generation - Average Tekapo generation decreased 52.9% to 77.5 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 73% nominally full with storage increasing to 1356 GV

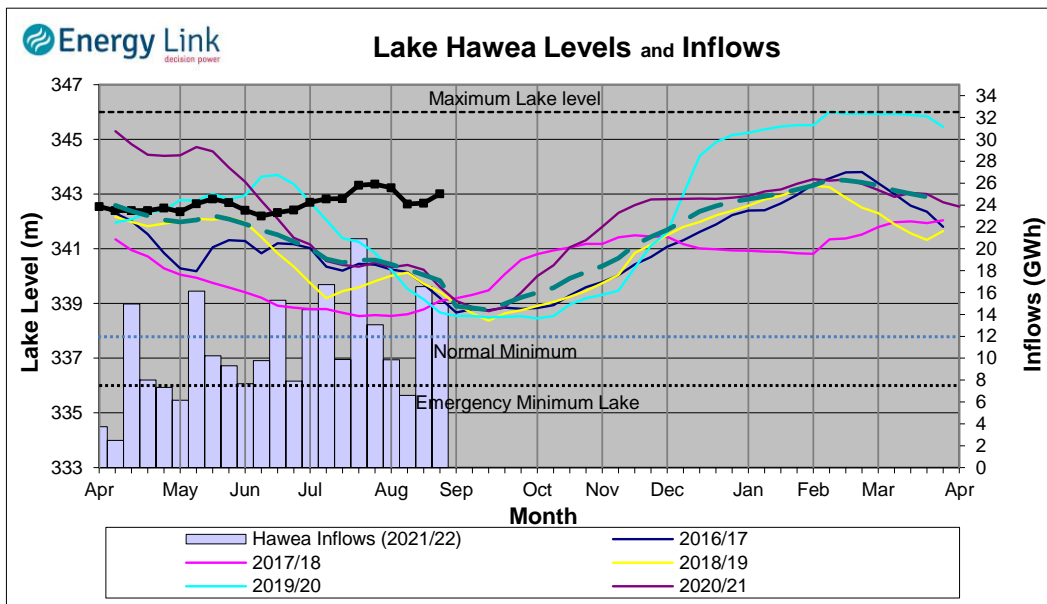
Inflows - Inflows into the Waitaki System decreased 24.5% to 59 GWh.

Generation - Average Waikati generation decreased 5.3% to 538 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 40.7 cumecs while Waitaki River flows were lower than last week averaging 257.3 cumecs.

Clutha System



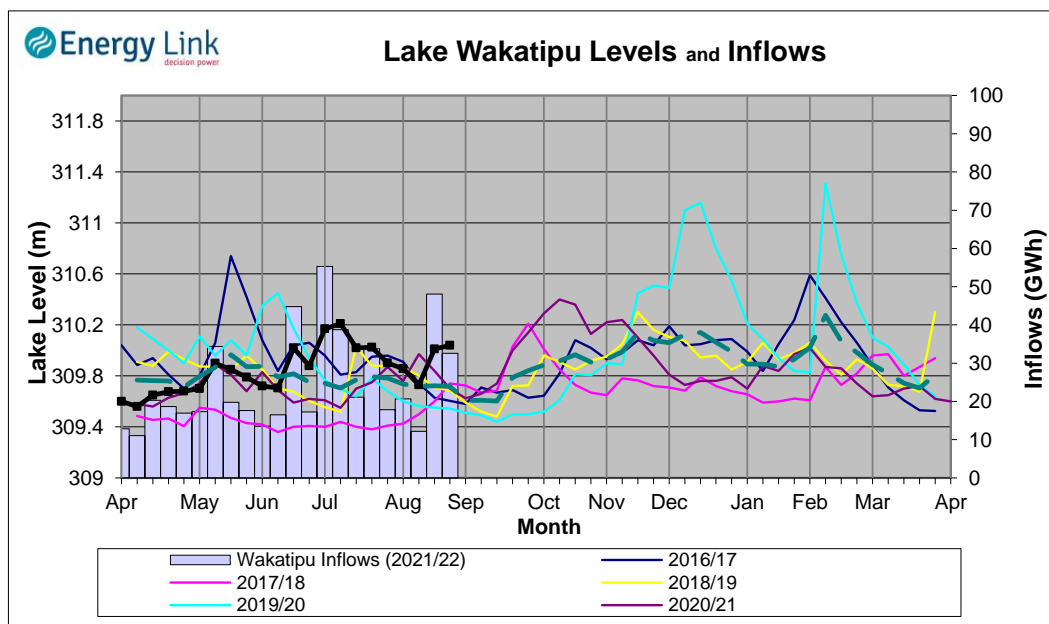
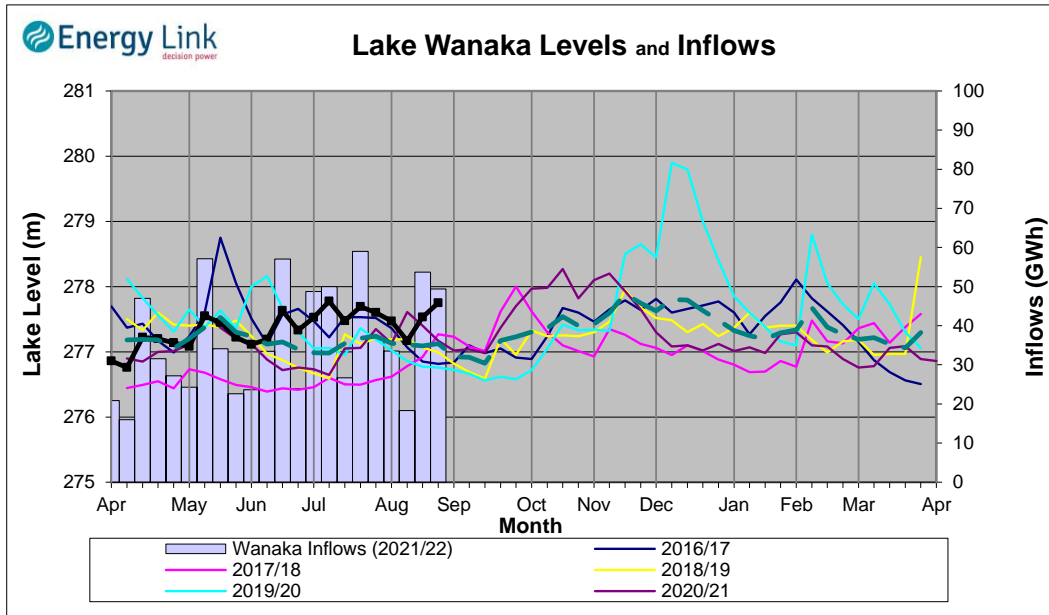
Lake Levels - Total storage for the Clutha System increased by 8.6% to 325 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 61.9%, 72.5% and 56.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 18.1% lower at 97 GWh.

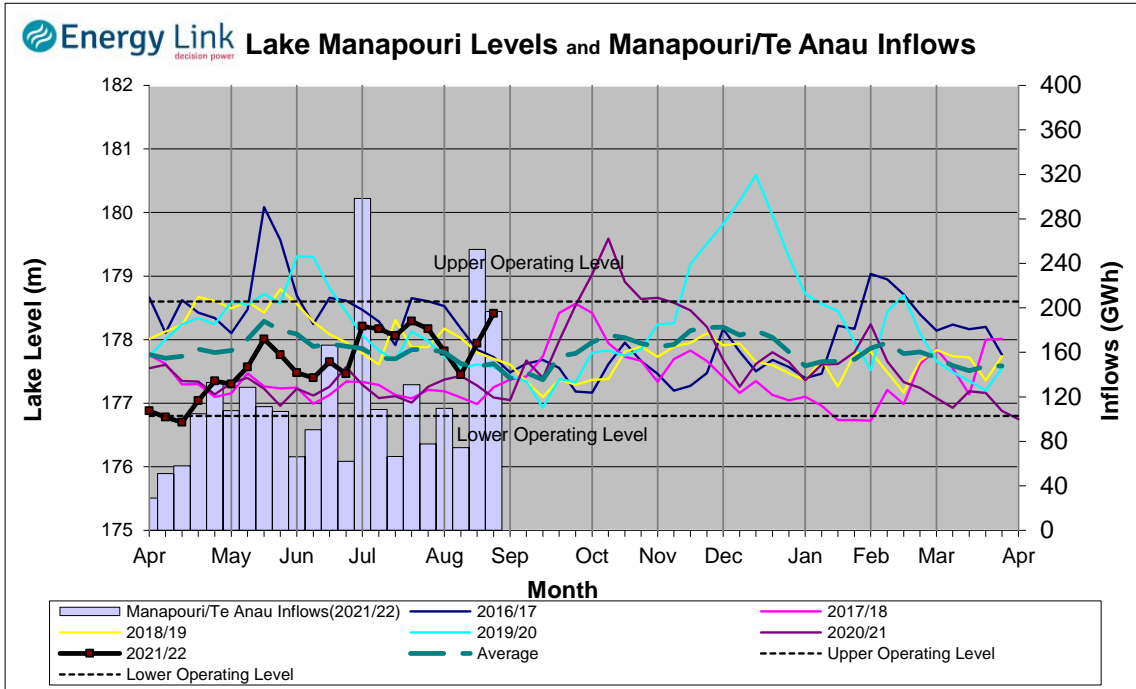
Generation - Average generation was 14.5% lower at 471 MW.

Hydro Spill - Estimate Spill is 2.8 cumecs.

River Flows - Total outflows from the lakes and Shotover River fell to 523.4 cumecs. This comprised of 15 cumecs from Lake Hawea, 246 cumecs from Lake Wanaka, 194 cumecs from Lake Wakatipu and 68 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 14.9% to 482 GWh with Lake Manapouri ending the week 93% nominally full and Lake Te Anau ending the week 120.1% nominally full.

Inflows - Total inflows into the Manapouri System decreased 22.1% to 197 GWh.

Generation - Average generation was 0.4% higher at 735 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 53.5 cumecs.

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

