



Thursday, 05 August 2021

Issue: 1268

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)	1909	446	2356	203	2558
Storage Change (GWh)	-15	-16	-31	-2	-33

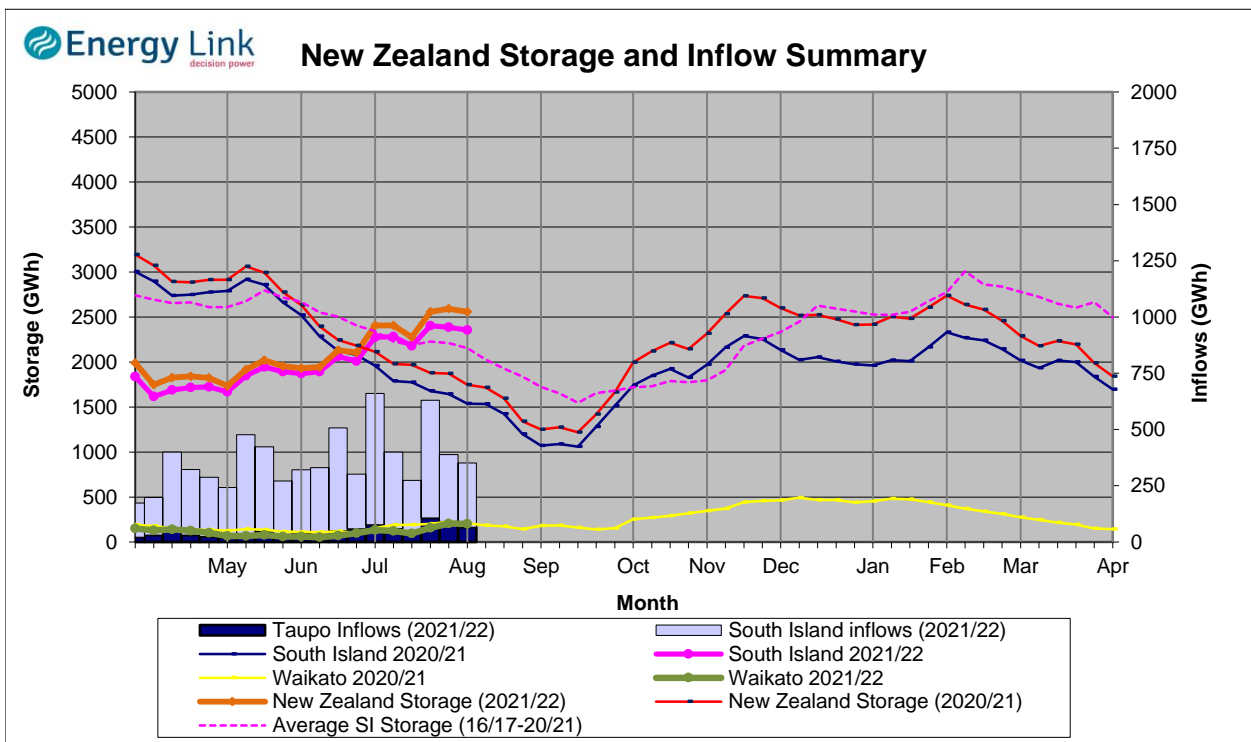
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2241	203	2443

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 decreased 32.8 GWh over the last week. South Island controlled storage decreased 0.8% to 1909 GWh; South Island uncontrolled storage decreased 3.4% to 446 GWh; with Taupo storage decreasing 0.8% to 203 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	331	306	1718	203	2558
Last Week	337	321	1729	204	2591
% Change	-1.8%	-4.5%	-0.6%	-0.8%	-1.3%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	110	64	113	65	352
Last Week	78	68	151	91	388
% Change	41.2%	-5.3%	-25.7%	-28.5%	-9.4%

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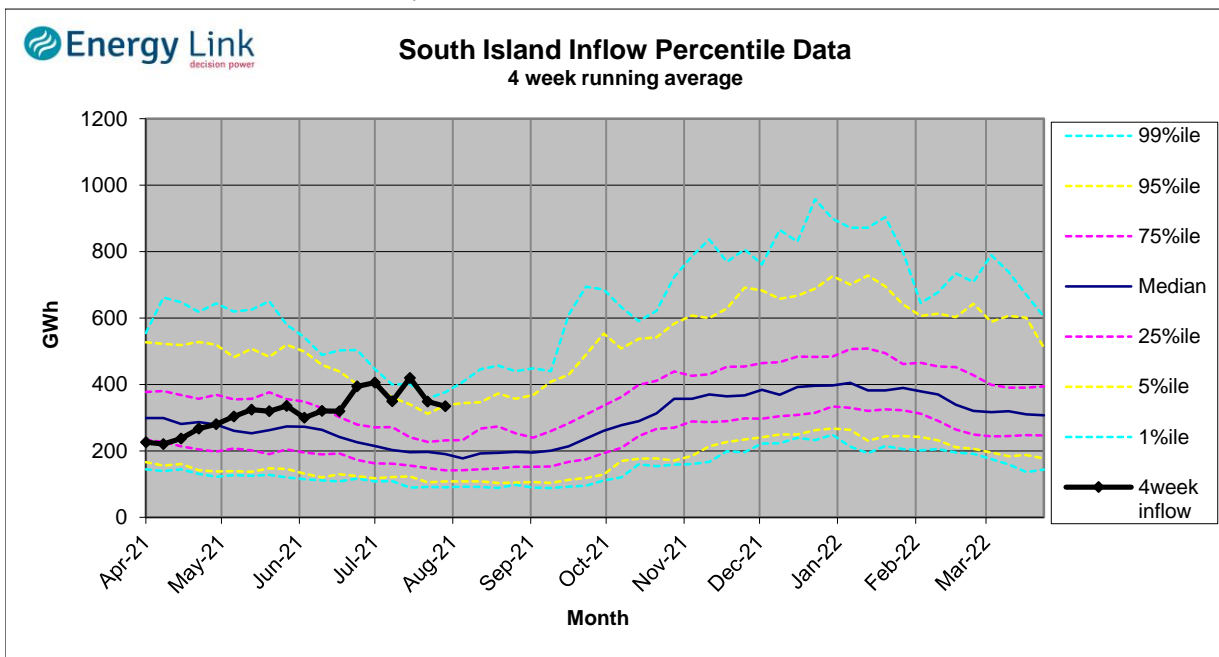
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.82	116	17	4
	Te Anau	202.30	215		
Clutha	Wakatipu	309.86	46	154	-20
	Wanaka	277.47	69	256	
	Hawea	343.24	191	94	
Waitaki	Tekapo	706.44	422		
	Pukaki	528.44	1296		
Waikato	Taupo	356.35	203		19

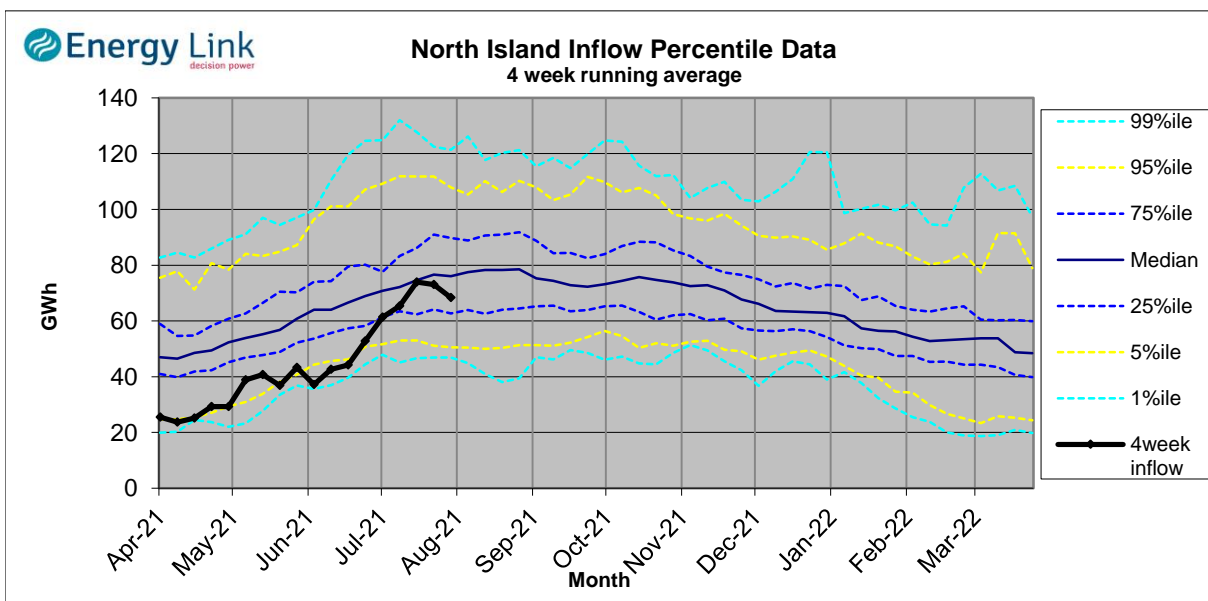
Inflow Summary

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.

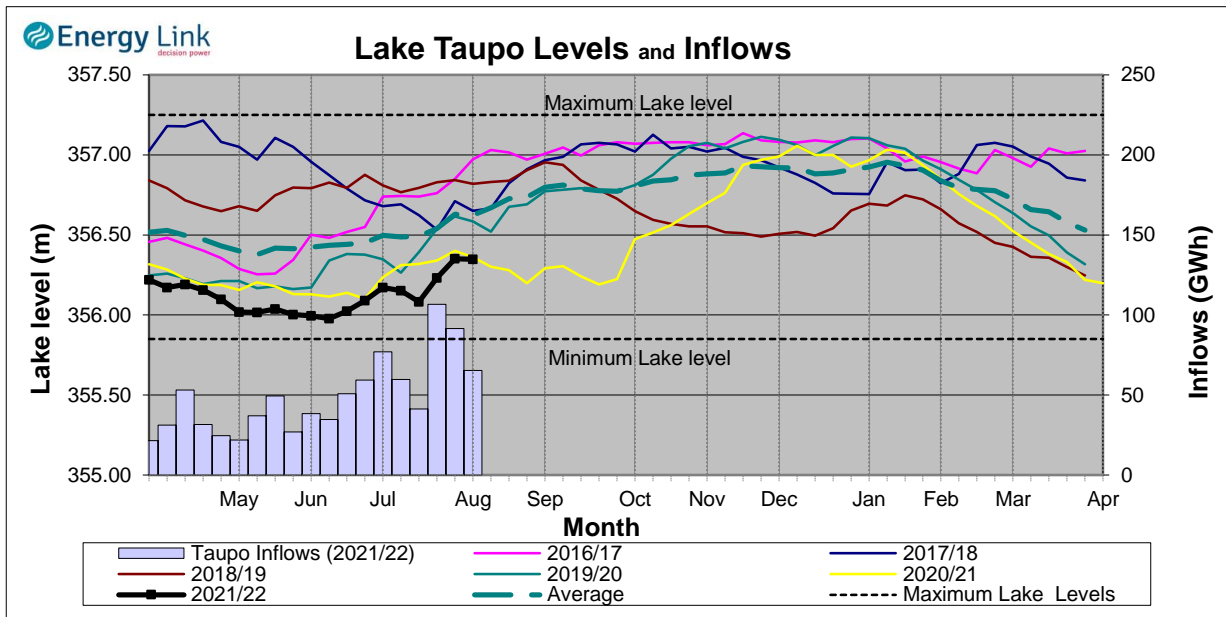
South Island Inflows - The past four weeks of S. I. inflows rank as the 6th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 45th wettest on record.



Waikato System

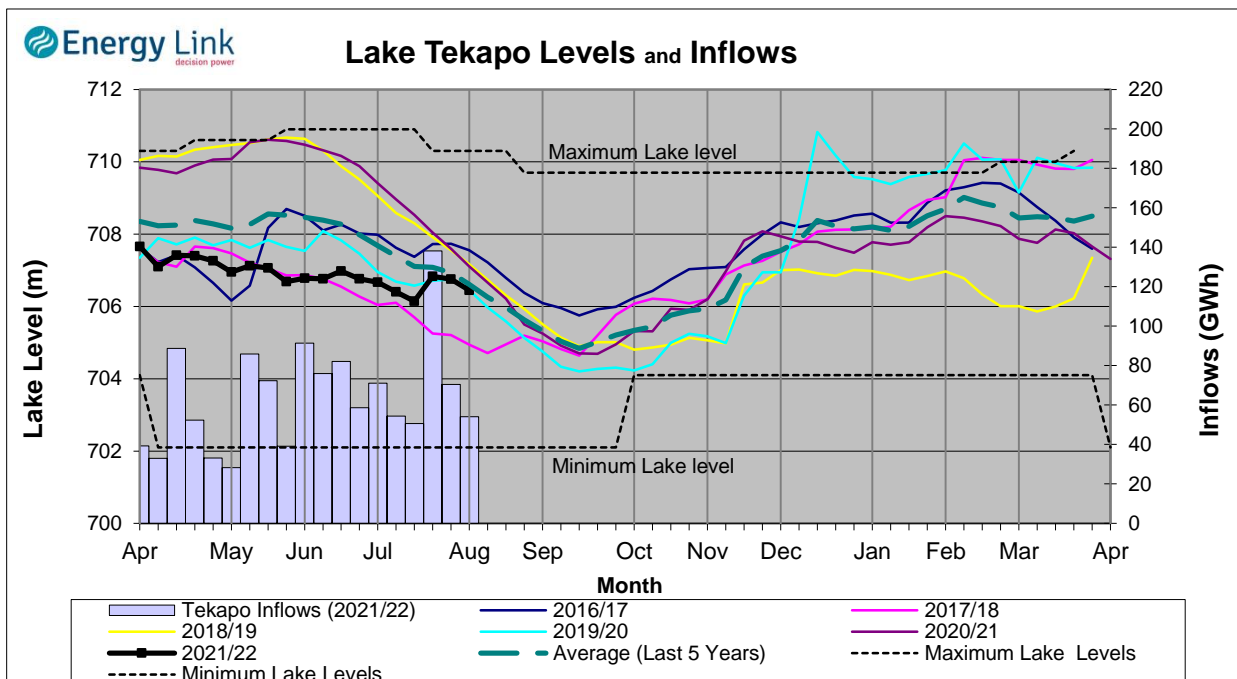


Lake Levels - Lake Taupo storage fell to 35.5% of nominal full at 203 GWh.

Inflows - Inflows decreased 28.5% to 65 GWh.

Generation - Average generation increased 29.5% to 433.3 MW.

Tekapo



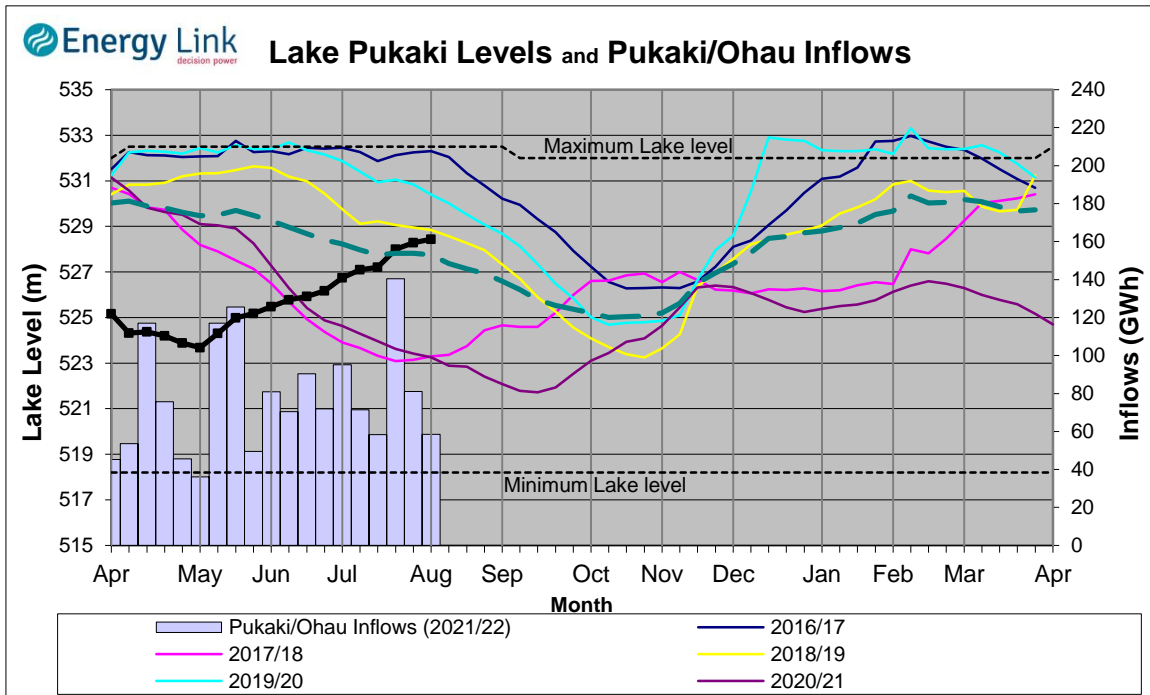
Lake Levels - Lake Tekapo ended the week 50% nominally full with storage falling to 422 GWh.

Inflows - Inflows into tekapo decreased 23.2% to 54 GWh.

Generation - Average Tekapo generation increased 8.9% to 179.8 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 70% nominally full with storage increasing to 1296 GW

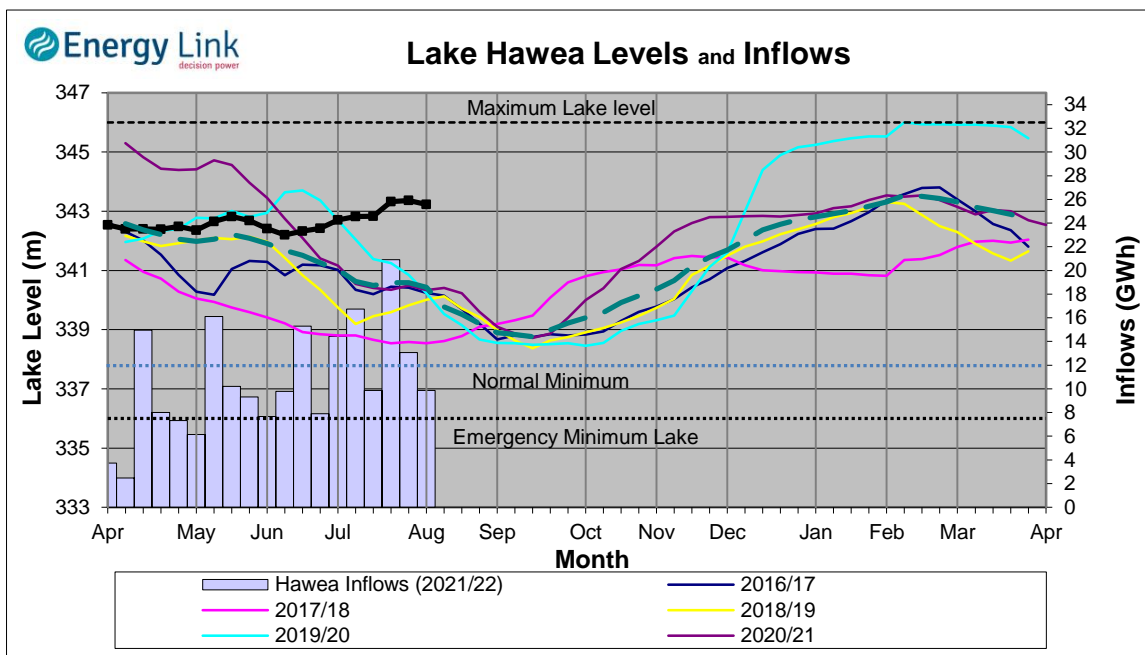
Inflows - Inflows into the Waitaki System decreased 27.9% to 58 GWh.

Generation - Average Waikati generation increased 1.1% to 713.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 31.8 cumecs while Waitaki River flows were lower than last week averaging 300 cumecs.

Clutha System



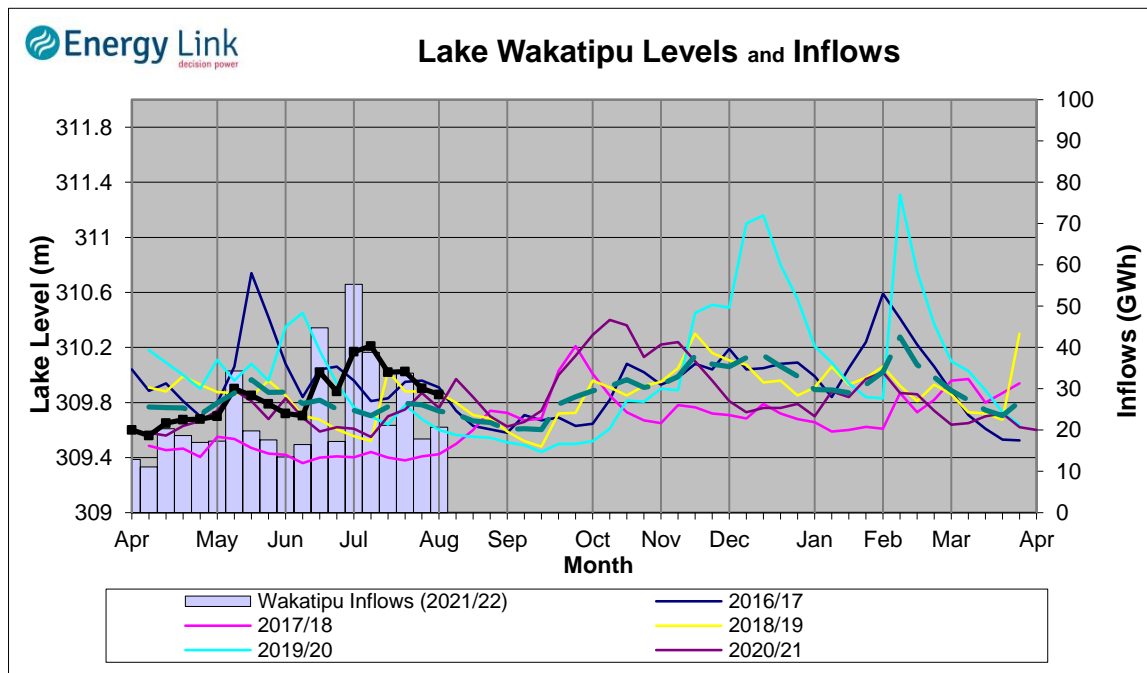
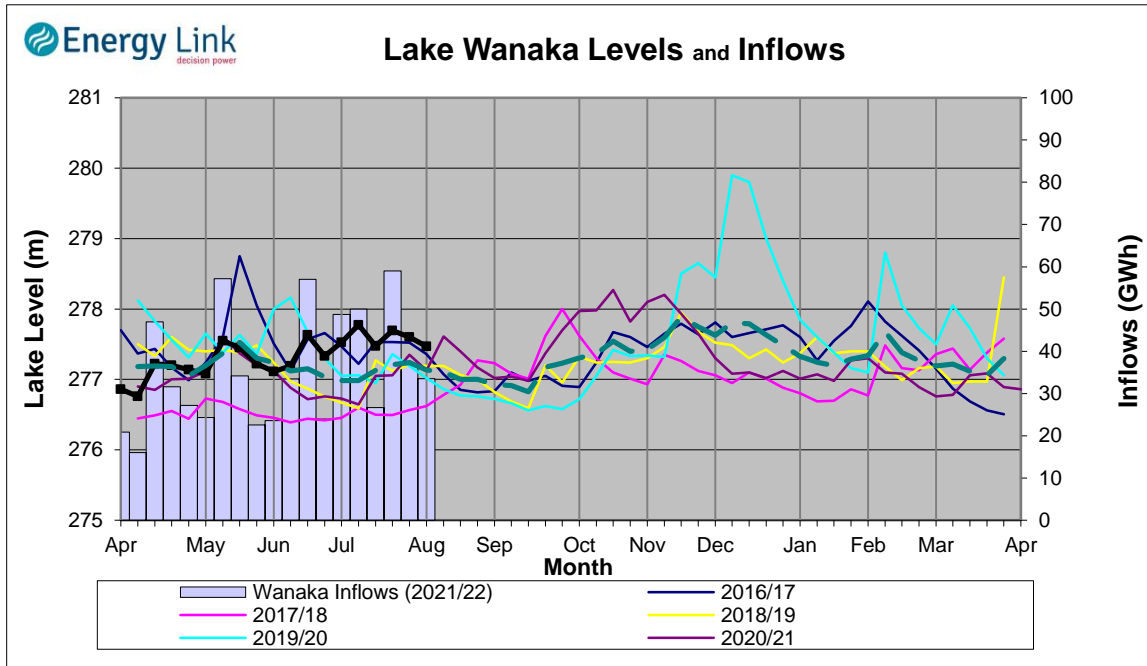
Lake Levels - Total storage for the Clutha System decreased 4.5% to 306 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 64.7%, 60.3% and 43.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 5.3% lower at 64 GWh.

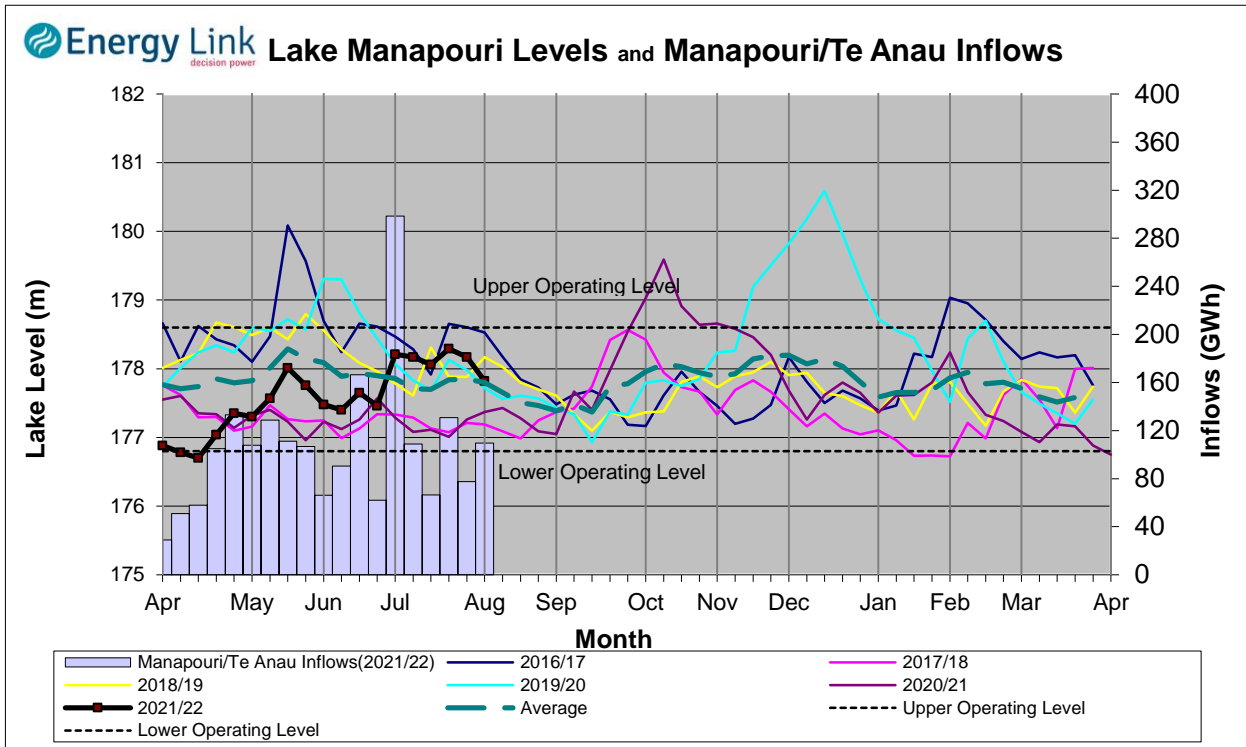
Generation - Average generation was 3.2% lower at 538 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 563.8 cumecs. This comprised of 94 cumecs from Lake Hawea, 256 cumecs from Lake Wanaka, 154 cumecs from Lake Wakatipu and 59 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 1.8% to 331 GWh with Lake Manapouri ending the week 71.3% nominally full and Lake Te Anau ending the week 78.3% nominally full.

Inflows - Total inflows into the Manapouri System increased 41.2% to 110 GWh.

Generation - Average generation was 5% higher at 688 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 16.7 cumecs.

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

