



Thursday, 19 August 2021

Issue: 1270

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)	1867	549	2416	226	2641
Storage Change (GWh)	45	168	213	16	229

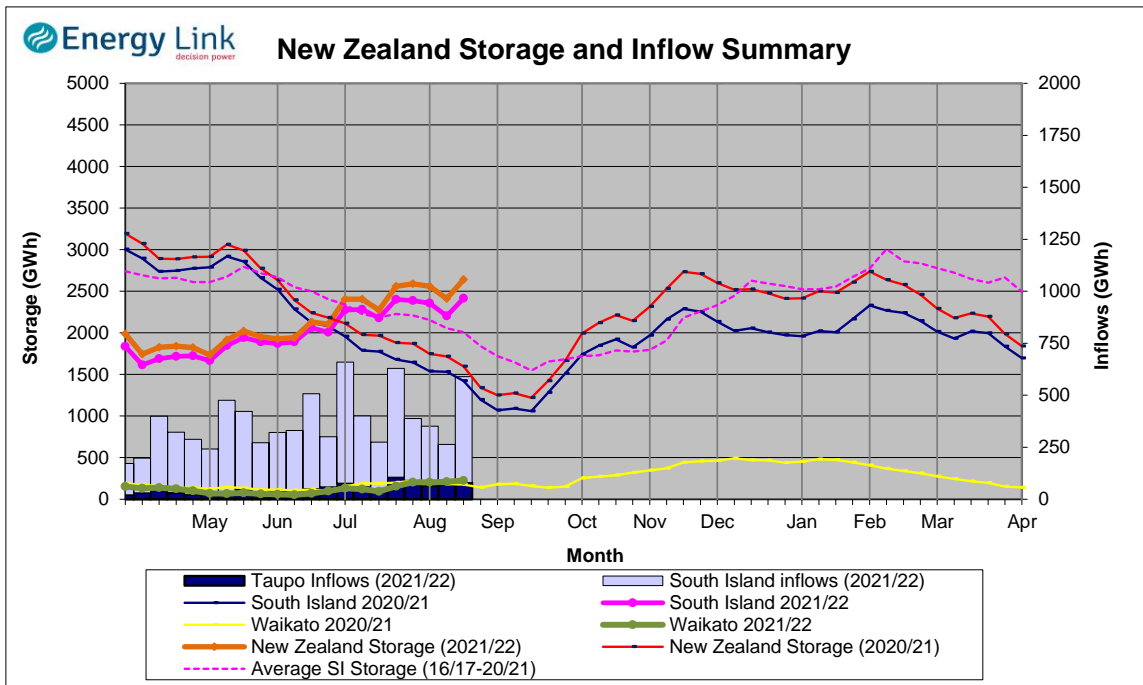
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2286	226	2512

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 229 GWh over the last week. South Island controlled storage increased 2.4% to 1867 GWh; South Island uncontrolled storage increased 44.3% to 549 GWh; with Taupo storage increasing 7.6% to 226 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	419	300	1697	226	2641
Last Week	290	259	1653	210	2412
% Change	44.7%	15.5%	2.6%	7.6%	9.5%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	252	118	138	80	589
Last Week	74	37	75	77	263
% Change	239.2%	219.1%	84.8%	4.2%	123.9%

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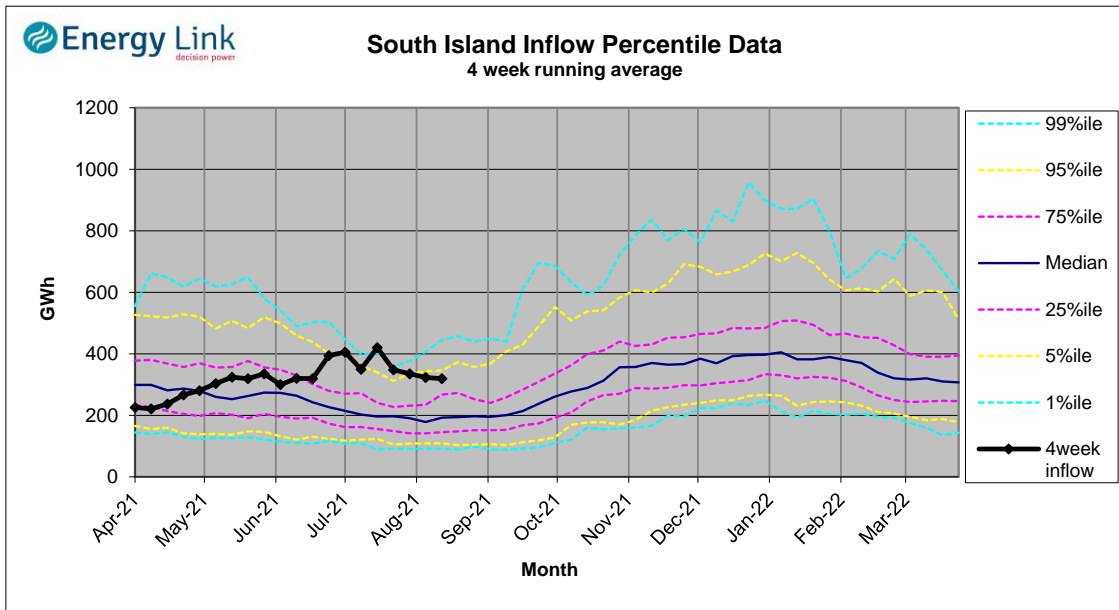
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.94	123	71	58
	Te Anau	202.84	296		
Clutha	Wakatipu	310.01	57	173	33
	Wanaka	277.53	72	229	
	Hawea	342.67	170	99	
Waitaki	Tekapo	705.80	357		16
	Pukaki	528.77	1340		
Waikato	Taupo	356.40	226		-86

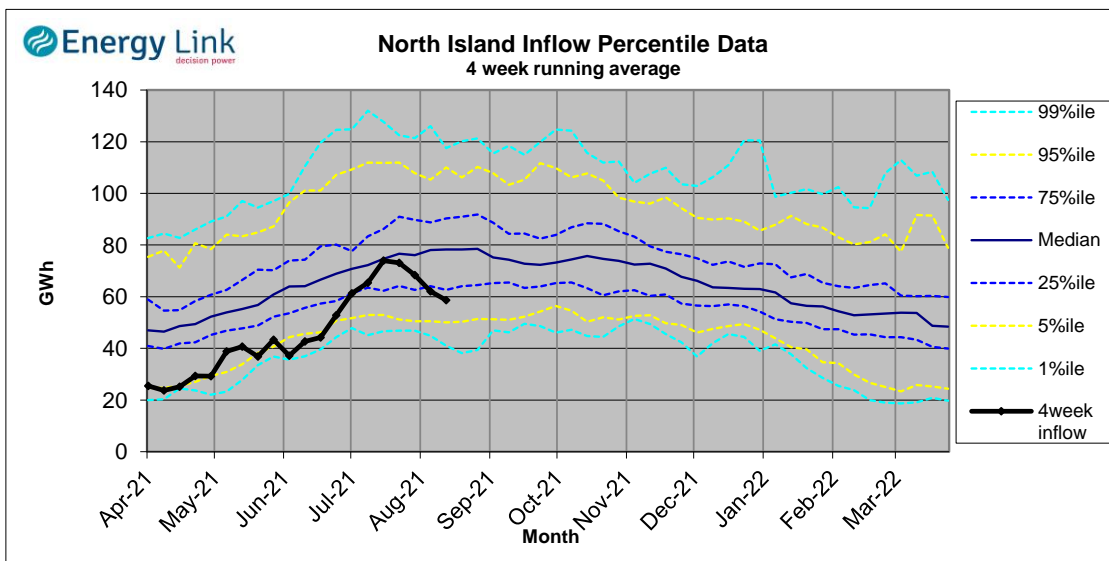
Inflow Summary

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.

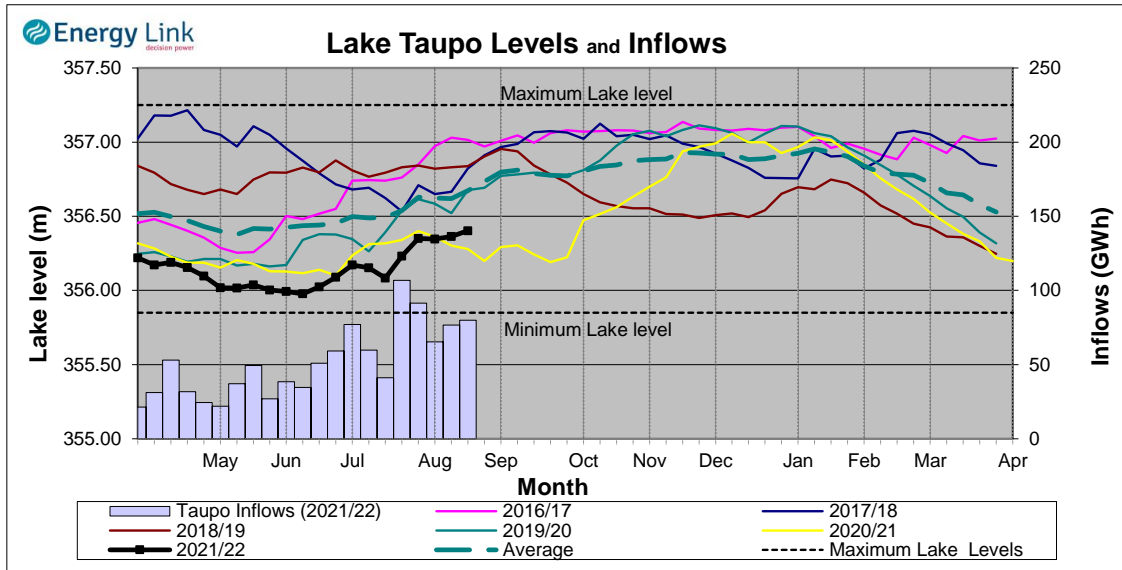
South Island Inflows - The past four weeks of S. I. inflows rank as the 12th wettest on record.



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



Waikato System

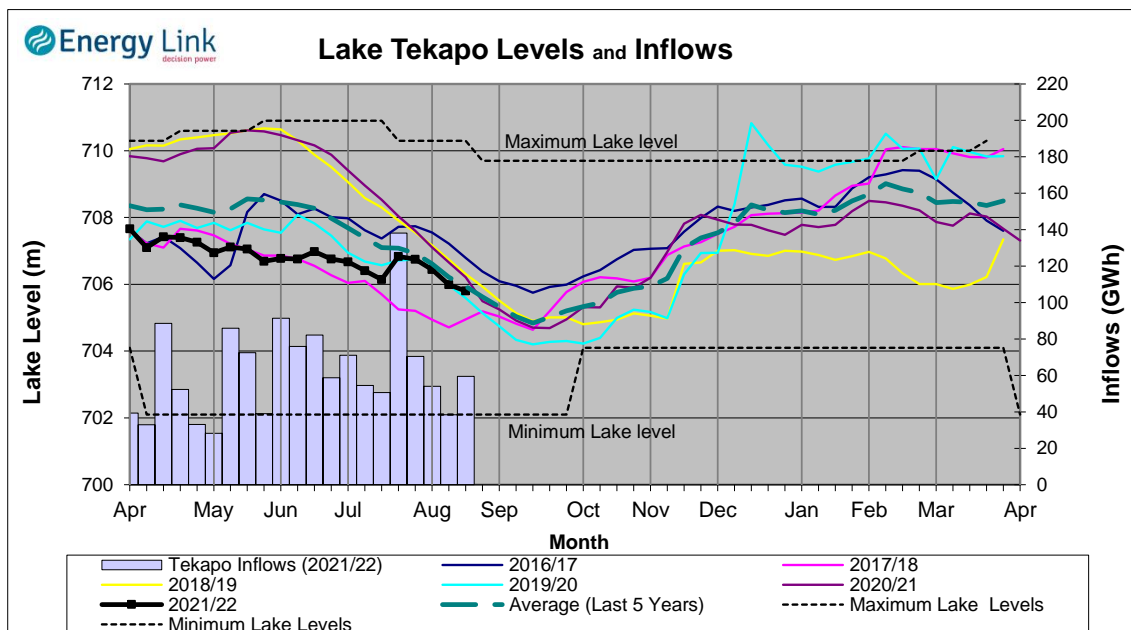


Lake Levels - Lake Taupo storage increased to 39.5% of nominal full at 226 GWh.

Inflows - Inflows increased 4.2% to 80 GWh.

Generation - Average generation decreased 7.4% to 447.1 MW.

Tekapo



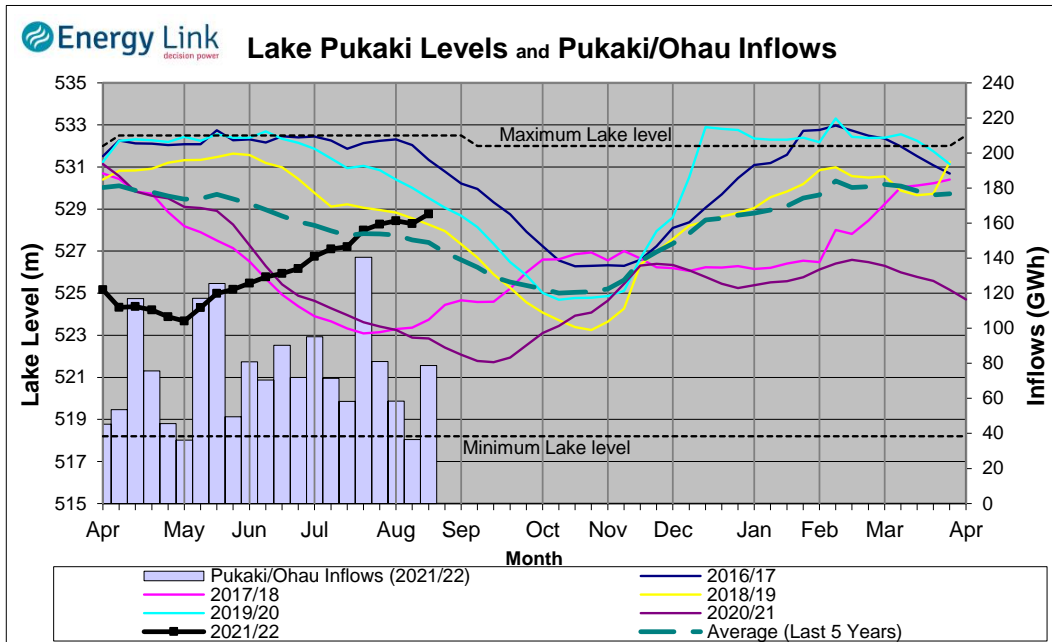
Lake Levels - Lake Tekapo ended the week 45% nominally full with storage falling to 357 GWh.

Inflows - Inflows into tekapo increased 55.3% to 60 GWh.

Generation - Average Tekapo generation decreased 6.6% to 164.5 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 73% nominally full with storage increasing to 1340 GV

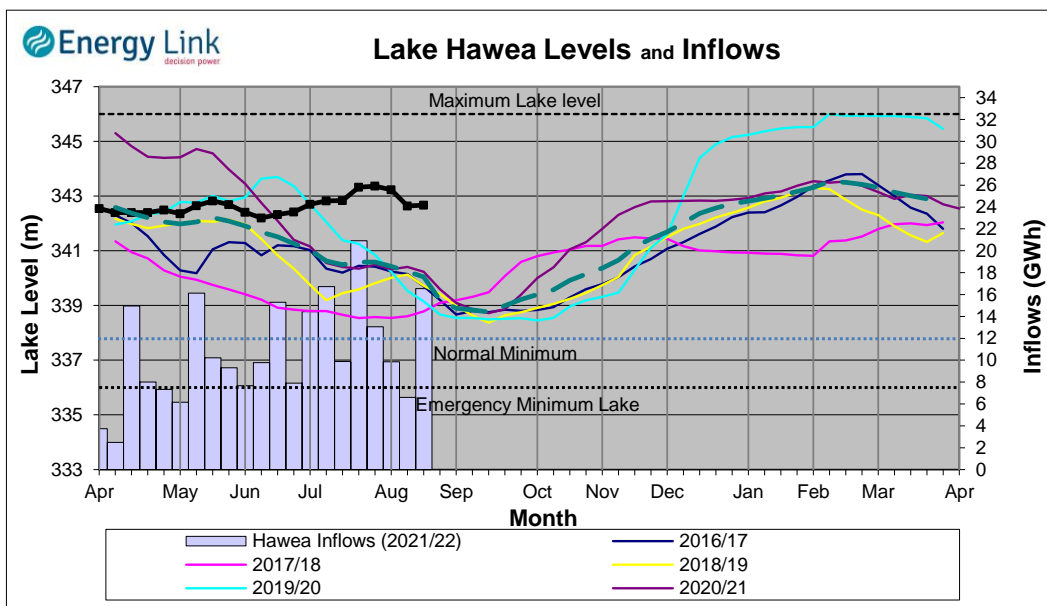
Inflows - Inflows into the Waitaki System increased 115.8% to 79 GWh.

Generation - Average Waikati generation decreased 24.7% to 568.3 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 44.3 cumecs while Waitaki River flows were lower than last week averaging 282.8 cumecs.

Clutha System



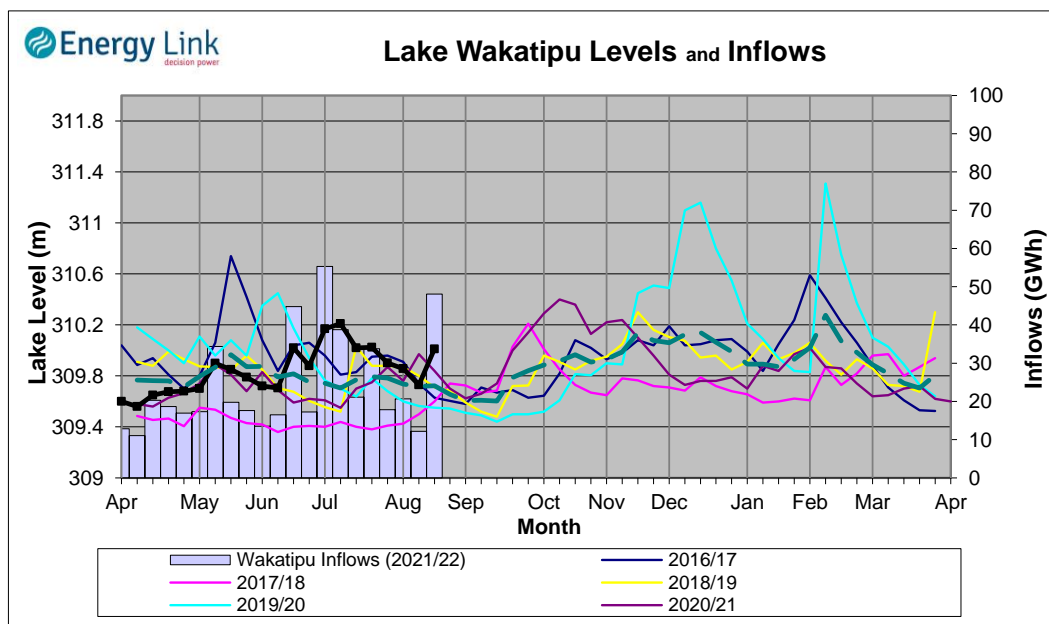
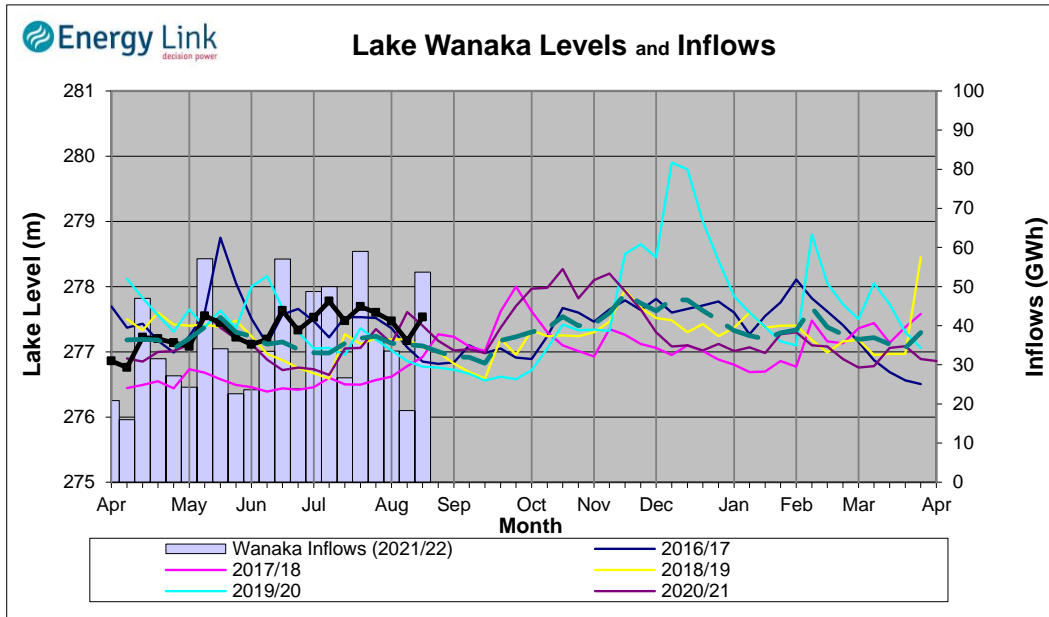
Lake Levels - Total storage for the Clutha System increased by 15.5% to 300 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 57.6%, 63% and 54.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 219.1% higher at 118 GWh.

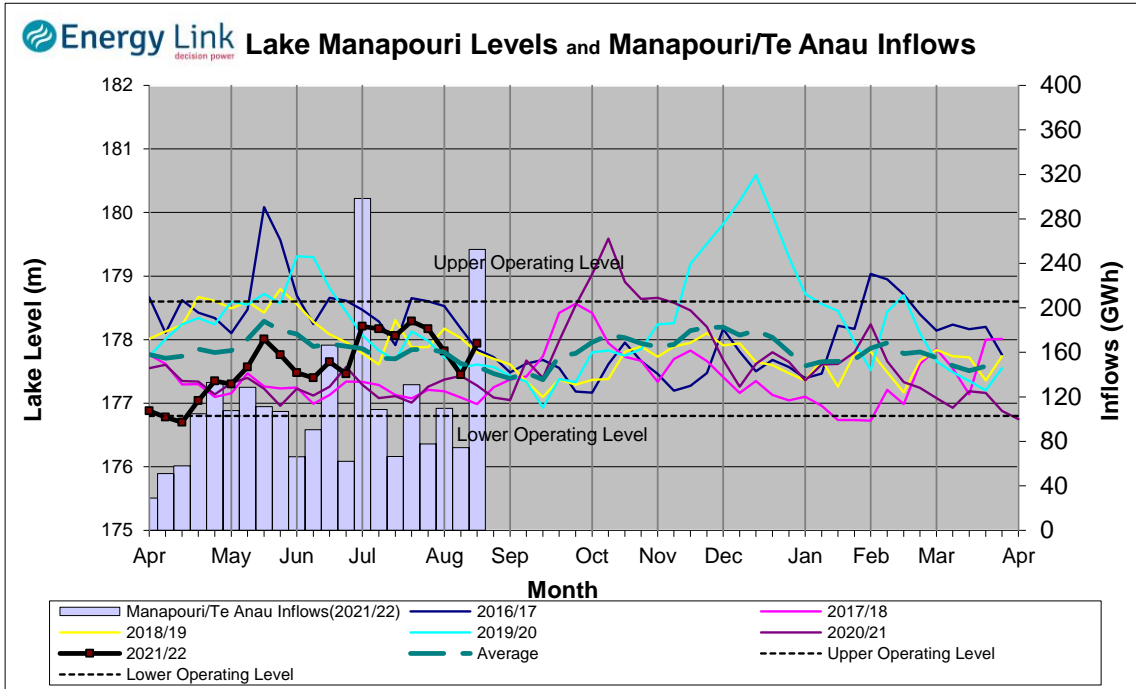
Generation - Average generation was 0.2% higher at 550 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 578.5 cumecs. This comprised of 99 cumecs from Lake Hawea, 229 cumecs from Lake Wanaka, 173 cumecs from Lake Wakatipu and 77 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 44.7% to 419 GWh with Lake Manapouri ending the week 75.7% nominally full and Lake Te Anau ending the week 107.6% nominally full.

Inflows - Total inflows into the Manapouri System increased 239.2% to 252 GWh.

Generation - Average generation was 6.2% higher at 732 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 71.1 cumecs.

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

