



Thursday, 20 January 2022

Issue: 1292

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)	2615	249	2864	432	3297
Storage Change (GWh)	-79	-72	-150	-38	-188

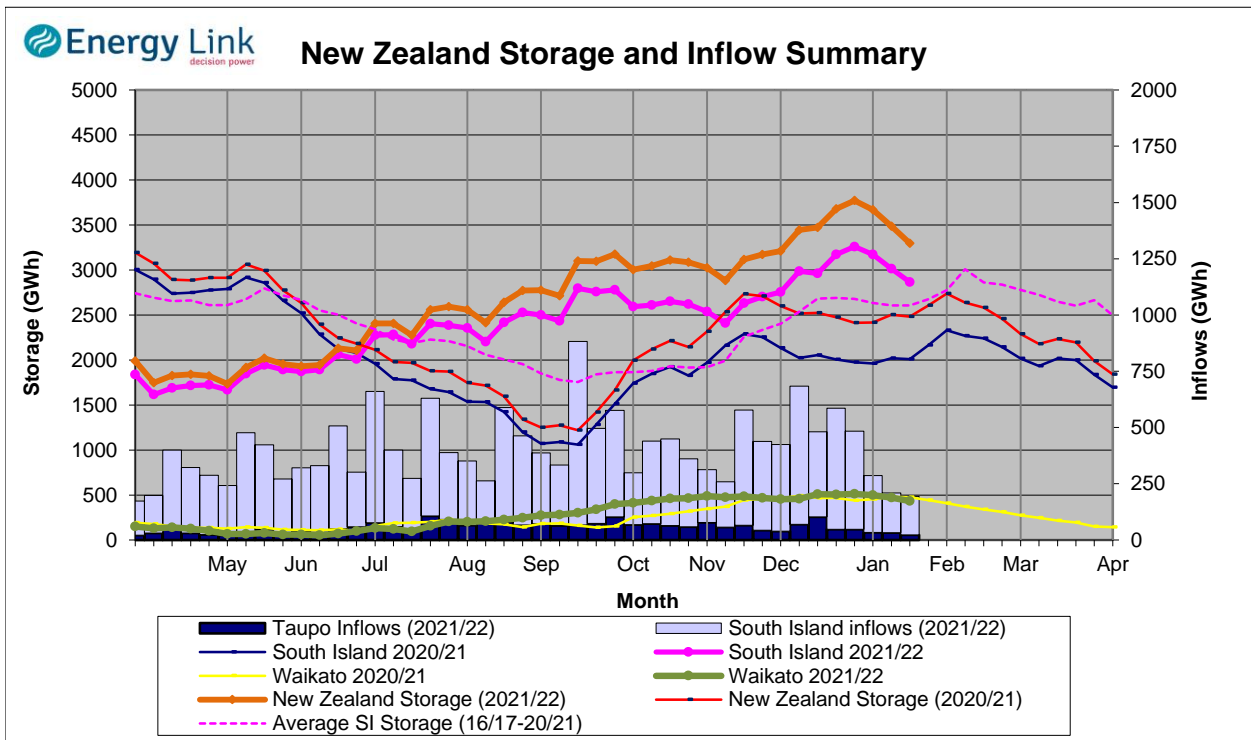
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2794	432	3227

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 187.8 GWh over the last week. South Island controlled storage decreased 2.9% to 2615 GWh; South Island uncontrolled storage decreased 22.3% to 249 GWh; with Taupo storage decreasing 8% to 432 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	179	308	2377	432	3297
Last Week	237	337	2441	470	3484
% Change	-24.3%	-8.5%	-2.6%	-8.0%	-5.4%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	18	33	119	23	194
Last Week	16	32	129	33	210
% Change	15.7%	4.7%	-7.6%	-30.5%	-7.6%

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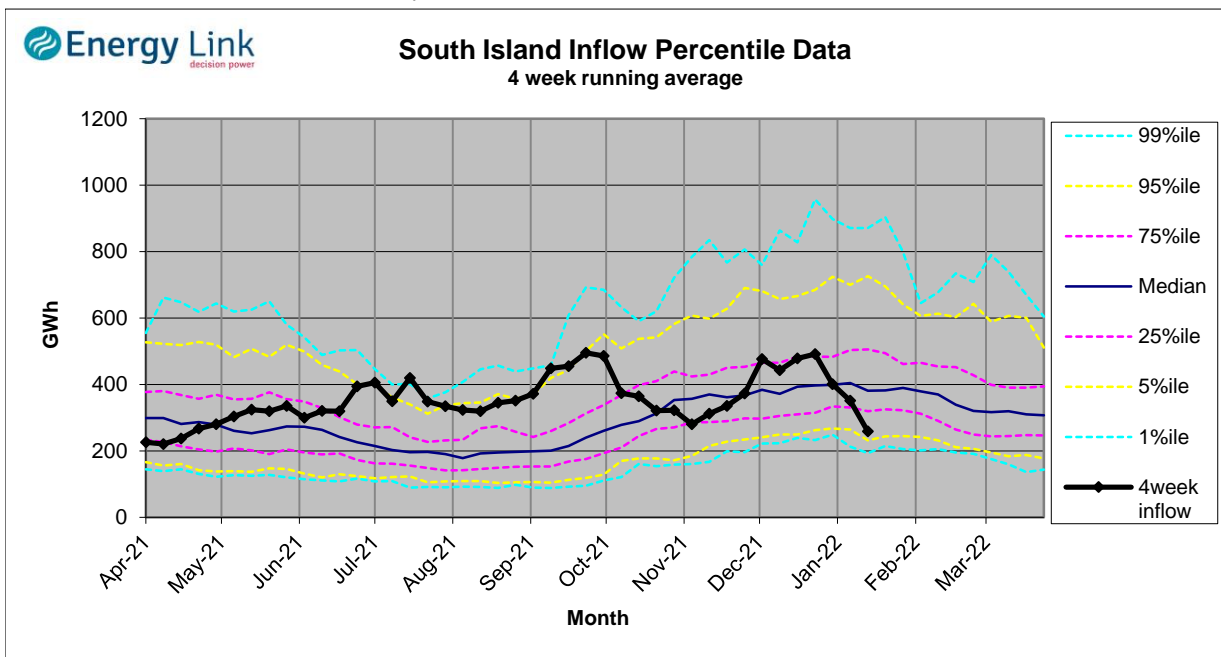
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.35	88	17	-17
	Te Anau	201.47	91		
Clutha	Wakatipu	309.67	32	118	-28
	Wanaka	276.85	38	155	
	Hawea	344.49	238	126	
Waitaki	Tekapo	709.74	772		
	Pukaki	530.73	1605		
Waikato	Taupo	356.91	432		26

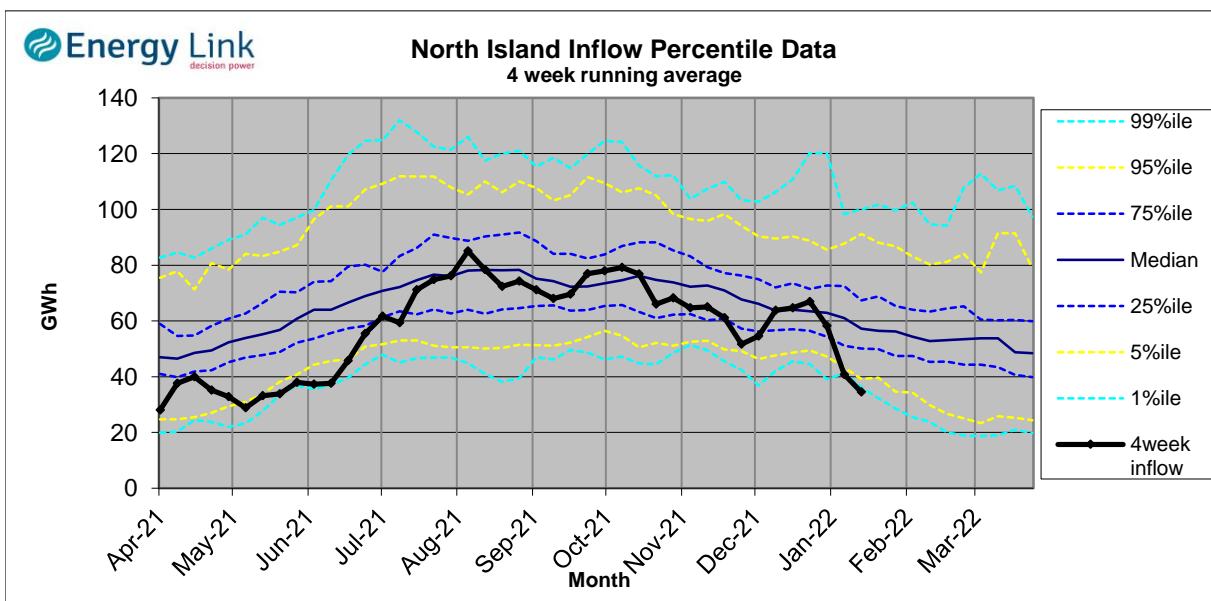
Inflow Summary

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.

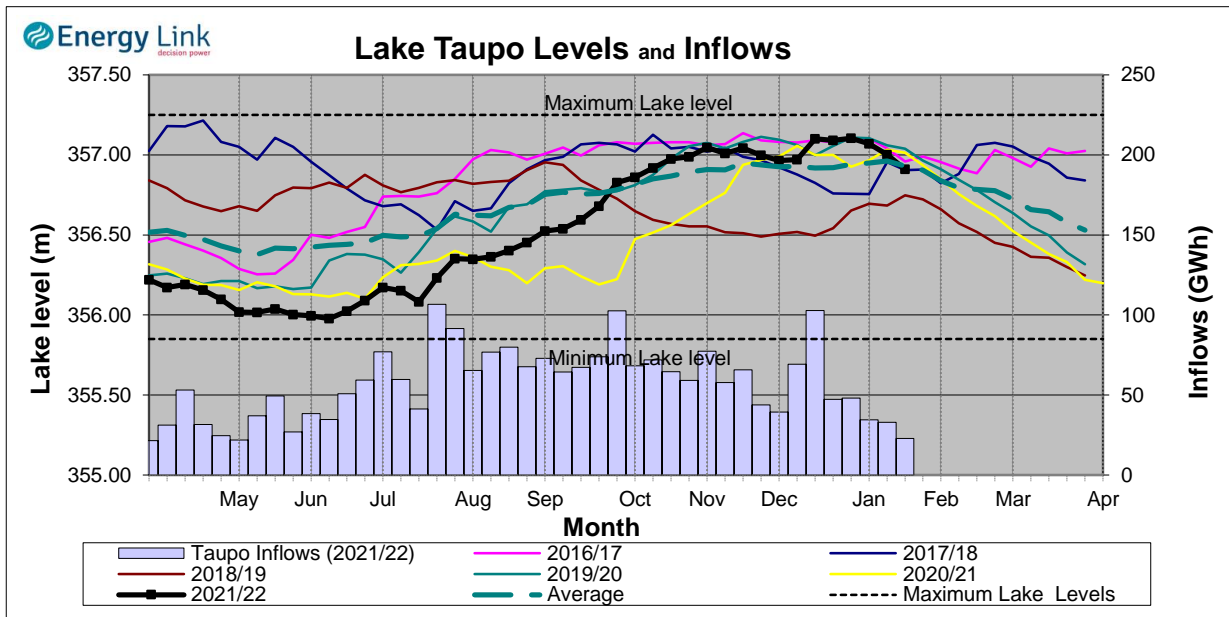
South Island Inflows - The past four weeks of S. I. inflows rank as the 9th driest on record.



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



Waikato System

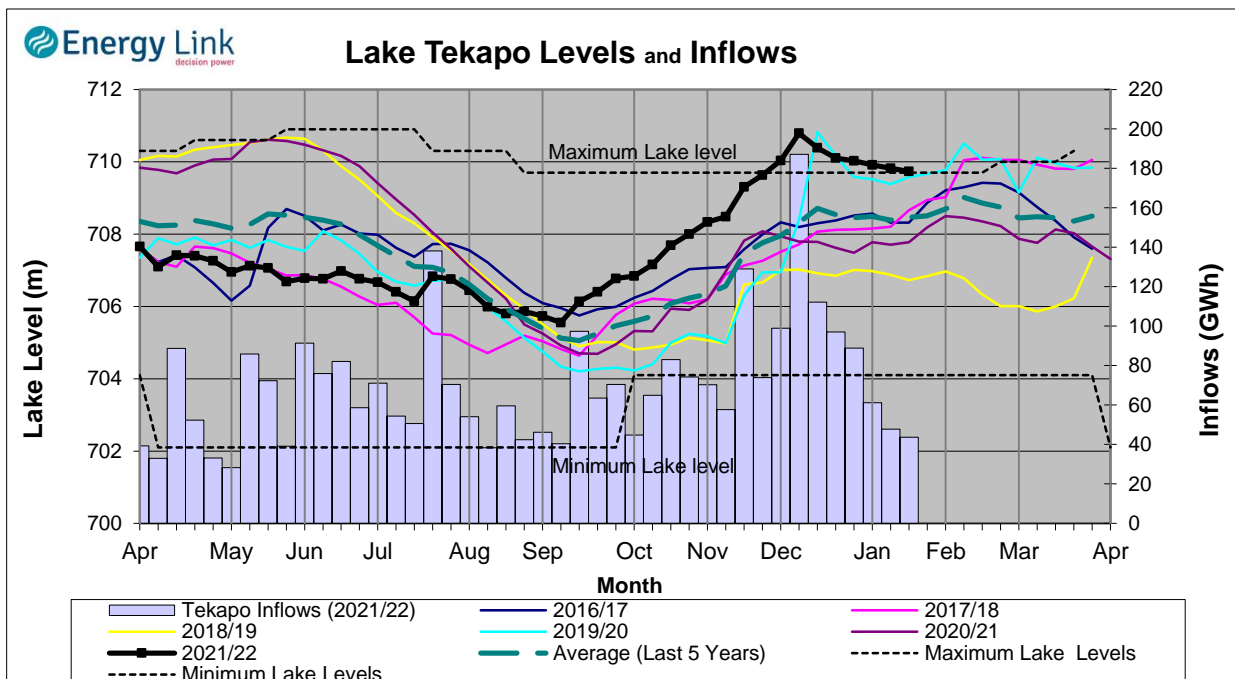


Lake Levels - Lake Taupo storage fell to 75.7% of nominal full at 432 GWh.

Inflows - Inflows decreased 30.5% to 23 GWh.

Generation - Average generation increased 7.5% to 379.4 MW.

Tekapo



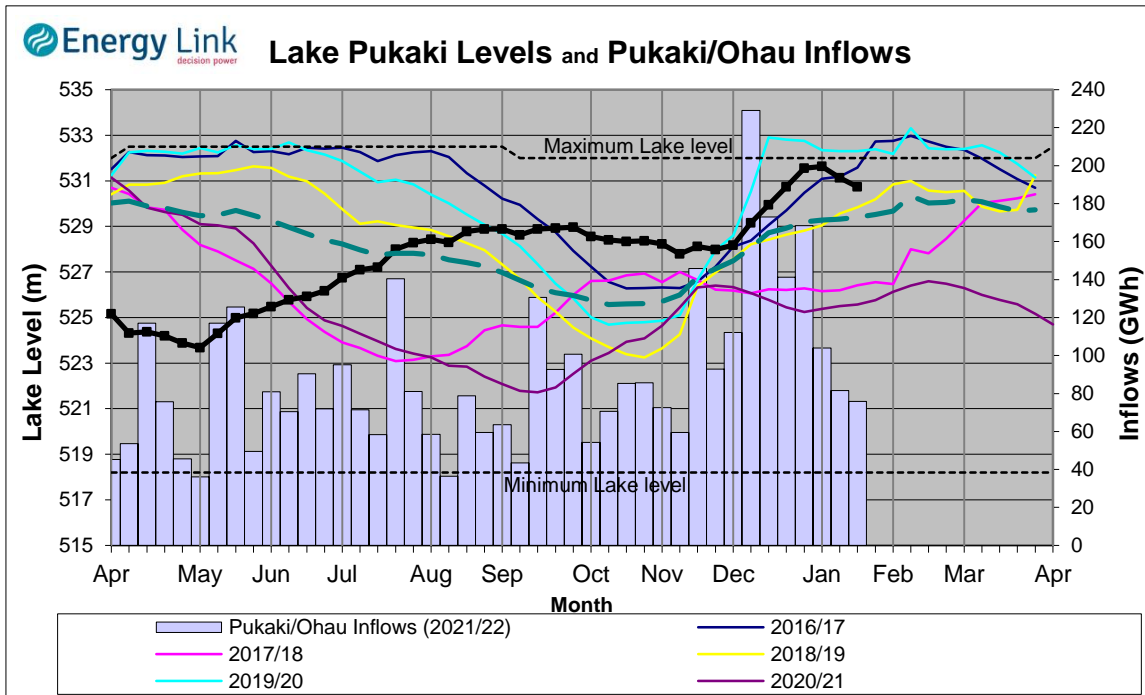
Lake Levels - Lake Tekapo ended the week 107% nominally full with storage falling to 772 GWh.

Inflows - Inflows into tekapo decreased 8.6% to 44 GWh.

Generation - Average Tekapo generation remained steady at 89.9 MW.

Hydro Spill - Lake Tekapo spill was 17.4 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 90% nominally full with storage falling to 1605 GWh.

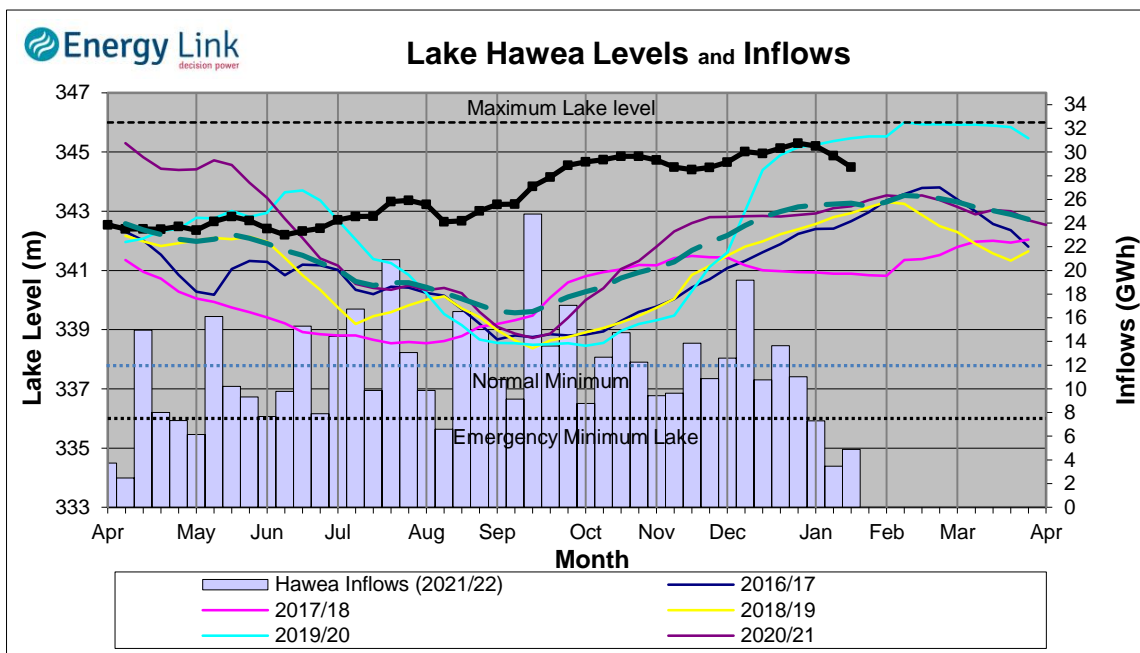
Inflows - Inflows into the Waitaki System decreased 7% to 76 GWh.

Generation - Average Waikati generation decreased 9.6% to 1050.1 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 13.2 cumecs while Waitaki River flows were lower than last week averaging 423.3 cumecs.

Clutha System



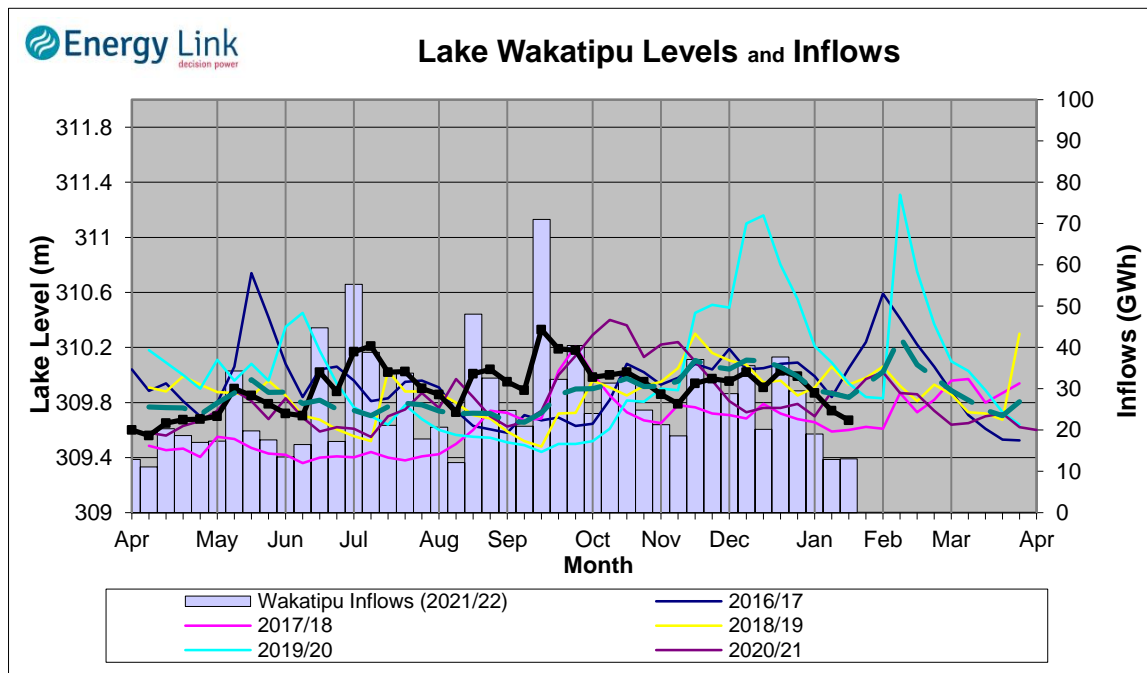
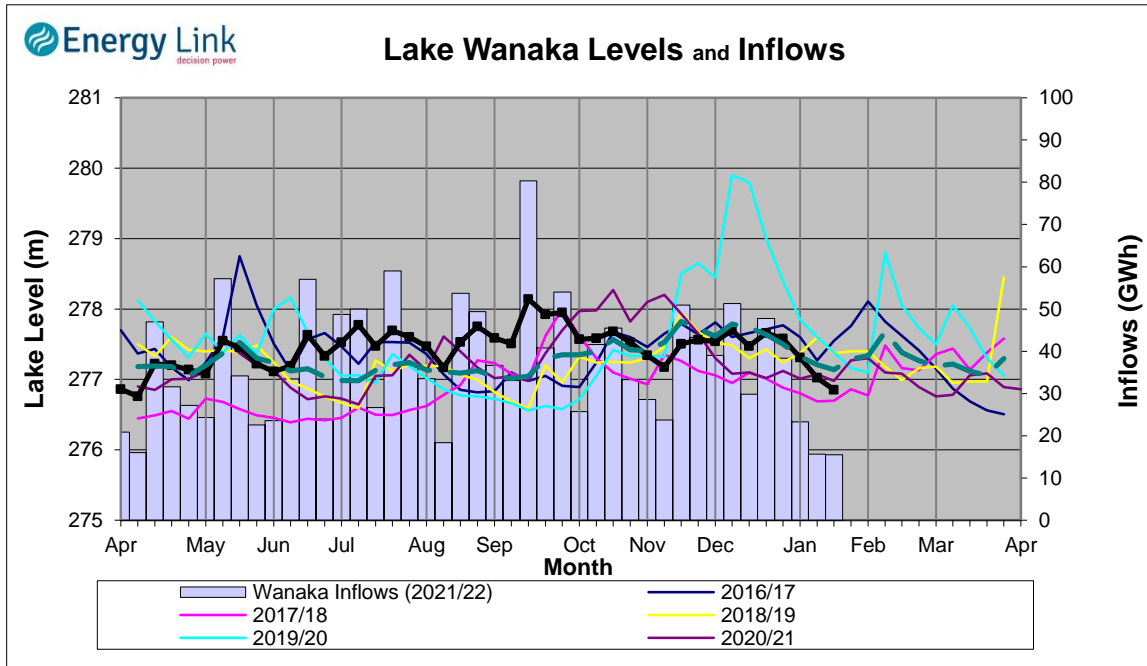
Lake Levels - Total storage for the Clutha System decreased 8.5% to 308 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 80.7%, 33.4% and 30% nominally full respectively.

Inflows - Total Inflows into the Clutha System 4.7% higher at 33 GWh.

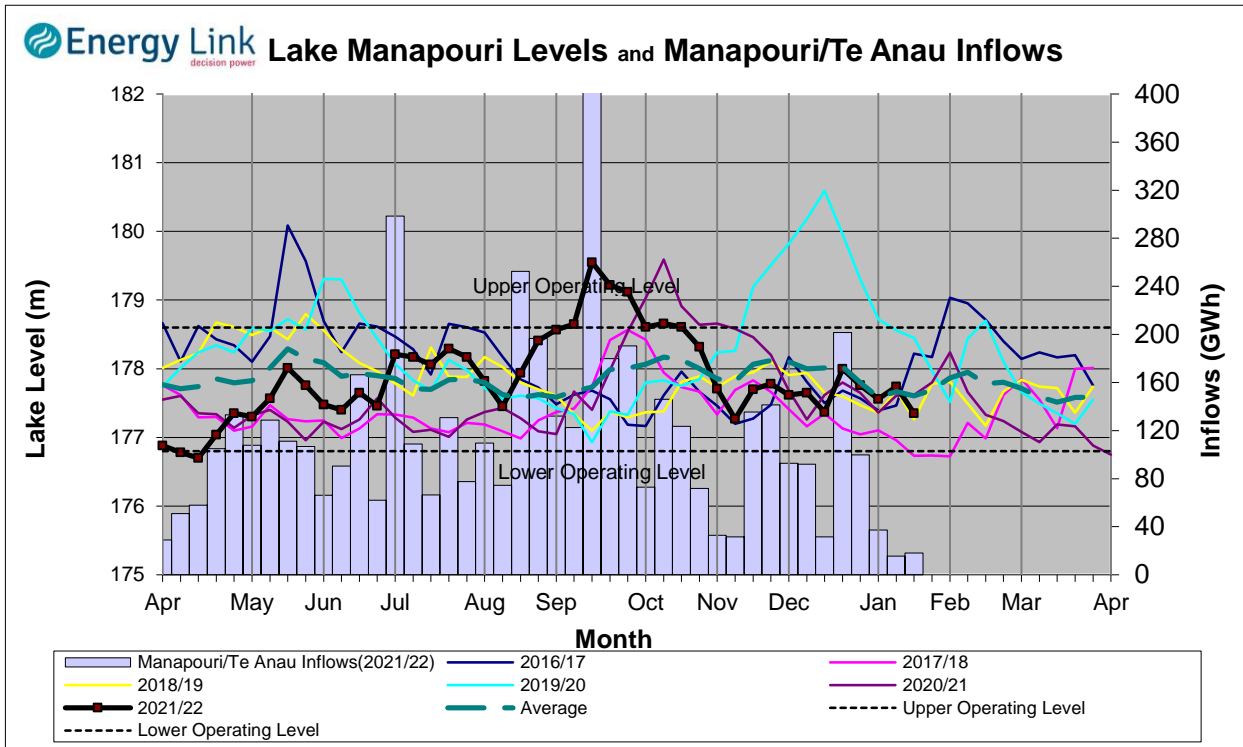
Generation - Average generation was 11.1% lower at 382 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 423.9 cumecs. This comprised of 126 cumecs from Lake Hawea, 155 cumecs from Lake Wanaka, 118 cumecs from Lake Wakatipu and 25 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 24.3% to 179 GWh with Lake Manapouri ending the week 54.1% nominally full and Lake Te Anau ending the week 33.2% nominally full.

Inflows - Total inflows into the Manapouri System increased 15.7% to 18 GWh.

Generation - Average generation was 32.1% higher at 451 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 16.9 cumecs.

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

