



Thursday, 27 January 2022

Issue: 1293

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)	2516	185	2700	404	3104
Storage Change (GWh)	-100	-65	-164	-28	-192

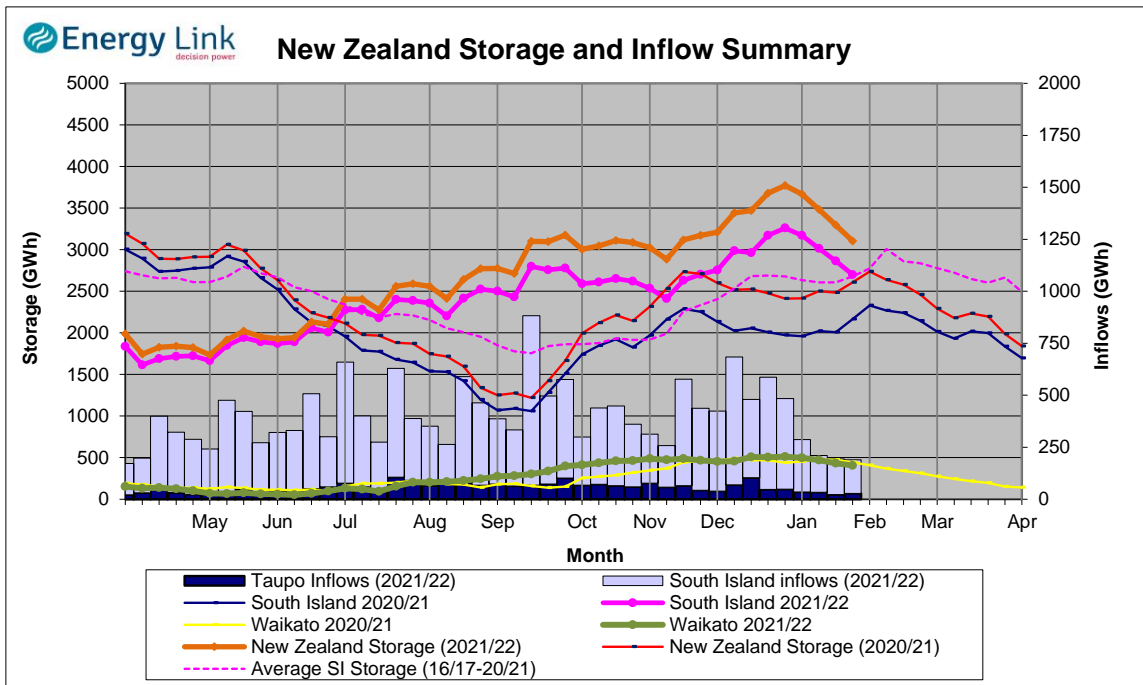
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2643	404	3047

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 192.4 GWh over the last week. South Island controlled storage decreased 3.8% to 2516 GWh; South Island uncontrolled storage decreased 25.9% to 185 GWh; with Taupo storage decreasing 6.5% to 404 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	127	282	2291	404	3104
Last Week	179	308	2377	432	3297
% Change	-28.9%	-8.6%	-3.6%	-6.5%	-5.8%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	11	29	122	28	190
Last Week	18	33	119	23	194
% Change	-39.3%	-14.0%	2.3%	21.7%	-2.1%

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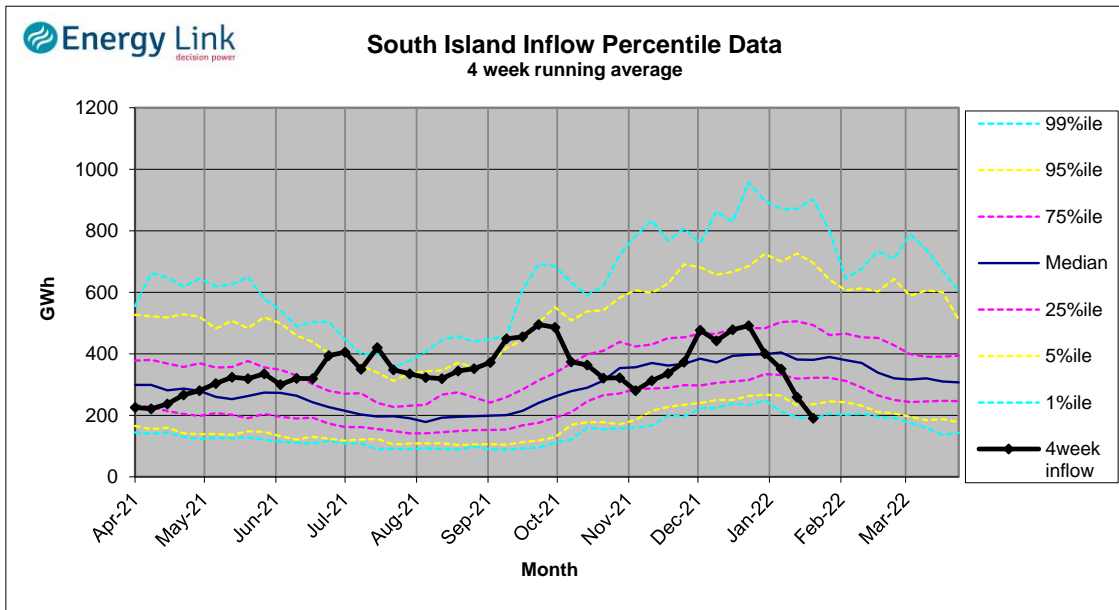
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumeecs)	Outflow Change
Manapouri	Manapouri	176.88	60	20	3
	Te Anau	201.31	67		
Clutha	Wakatipu	309.60	26	104	-14
	Wanaka	276.70	31	136	-20
	Hawea	344.13	225	115	-11
Waitaki	Tekapo	709.64	761		
	Pukaki	530.18	1530		
Waikato	Taupo	356.84	404		

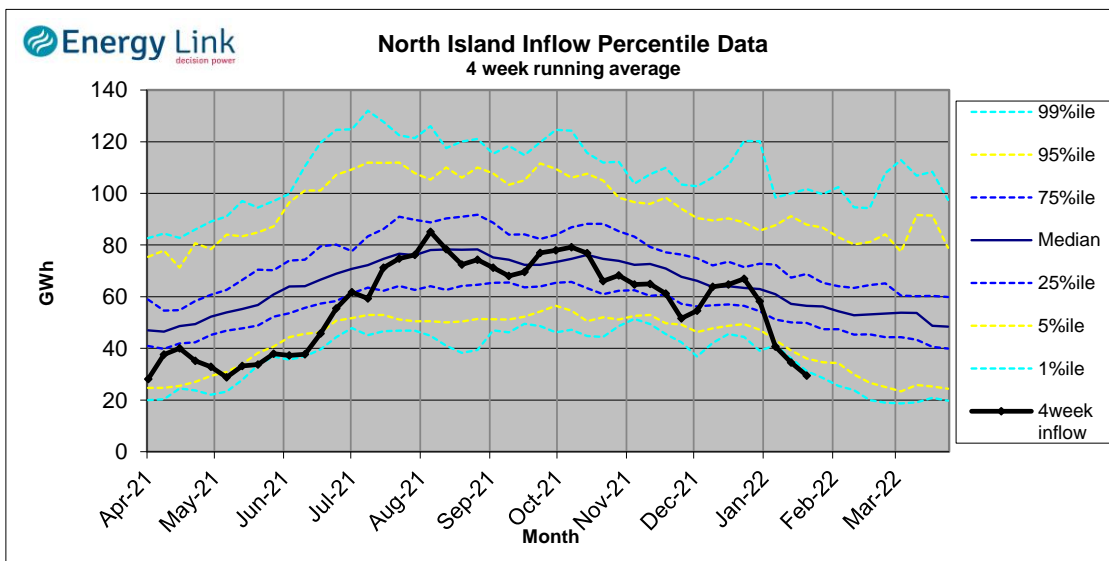
Inflow Summary

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.

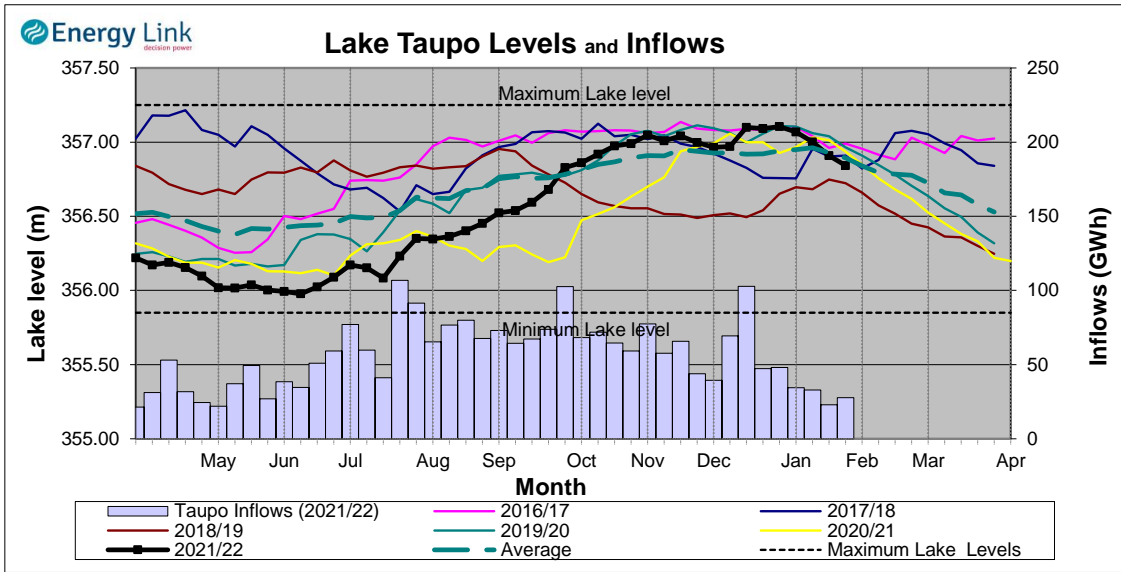
South Island Inflows - The past four weeks of S. I. inflows rank as the 2nd driest on record.



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



Waikato System

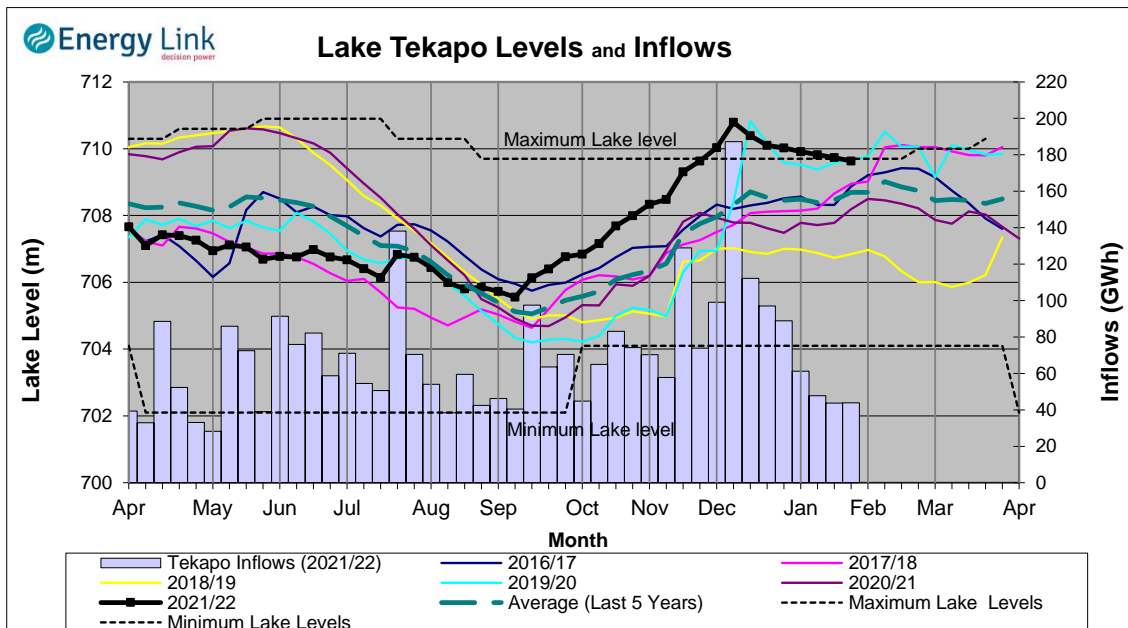


Lake Levels - Lake Taupo storage fell to 70.8% of nominal full at 404 GWh.

Inflows - Inflows increased 21.7% to 28 GWh.

Generation - Average generation decreased 2.6% to 369.6 MW.

Tekapo



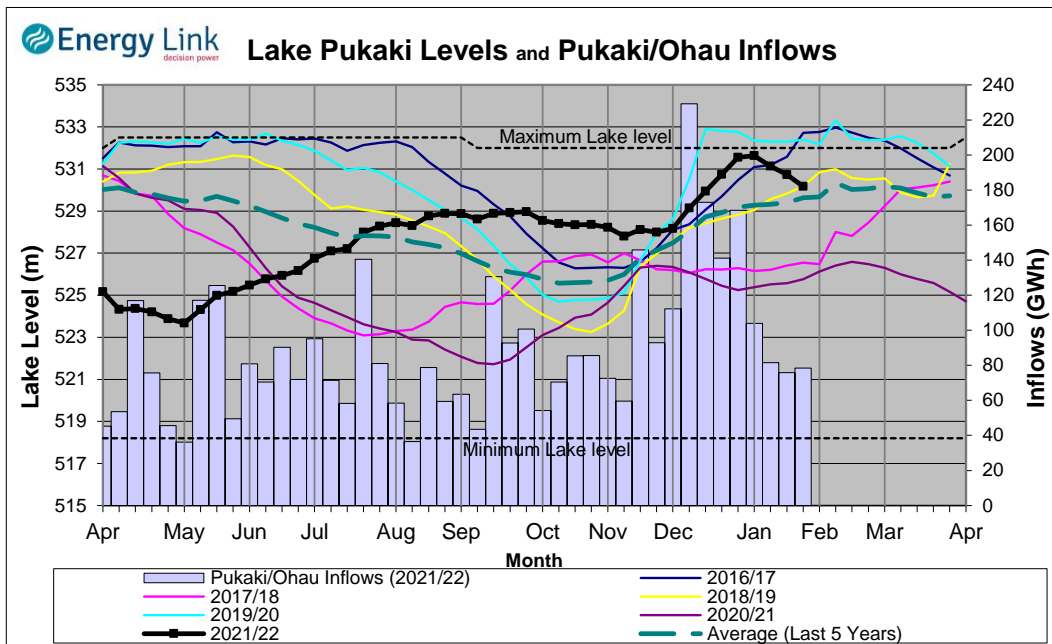
Lake Levels - Lake Tekapo ended the week 105% nominally full with storage falling to 761 GWh.

Inflows - Inflows into tekapo remained steady at 44 GWh.

Generation - Average Tekapo generation remained steady at 89.8 MW.

Hydro Spill - Lake Tekapo spill was 20.5 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 86% nominally full with storage falling to 1530 GWh.

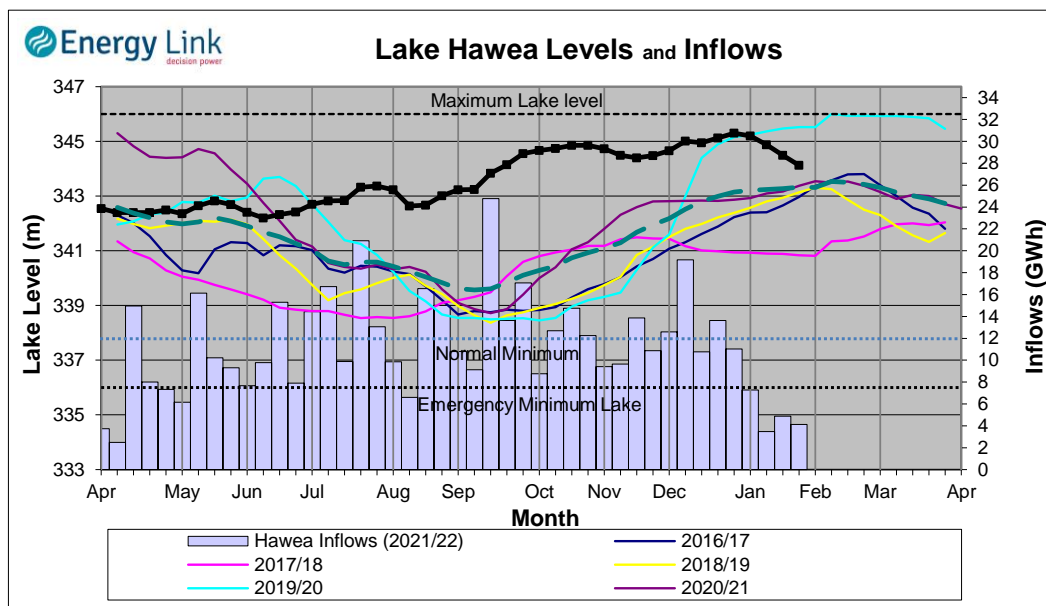
Inflows - Inflows into the Waitaki System increased 3.3% to 78 GWh.

Generation - Average Waikati generation increased 12% to 1176.5 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 13 cumecs while Waitaki River flows were higher than last week averaging 487.6 cumecs.

Clutha System



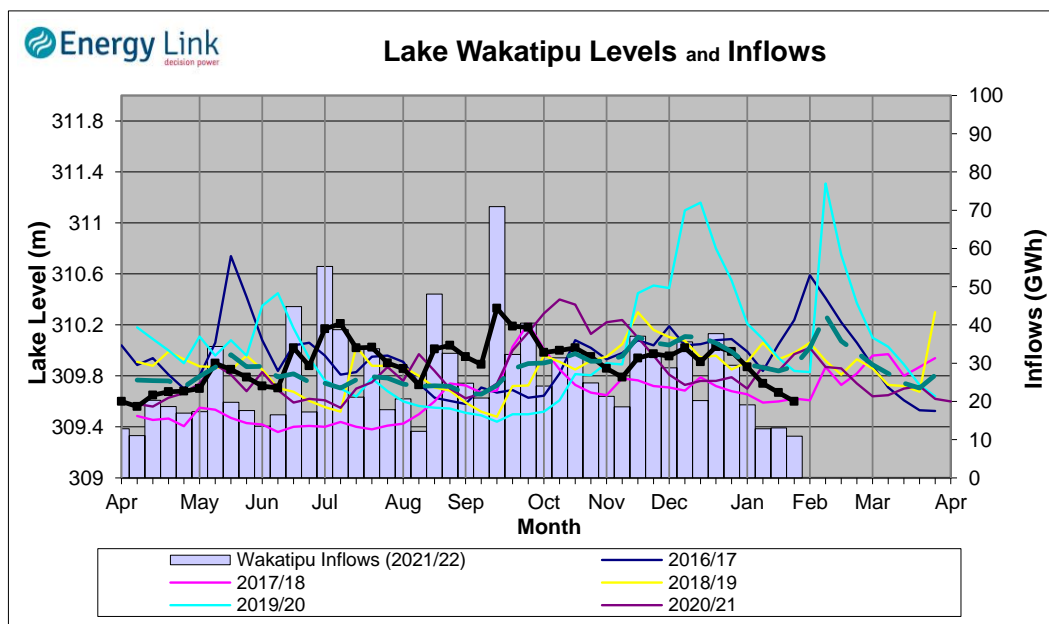
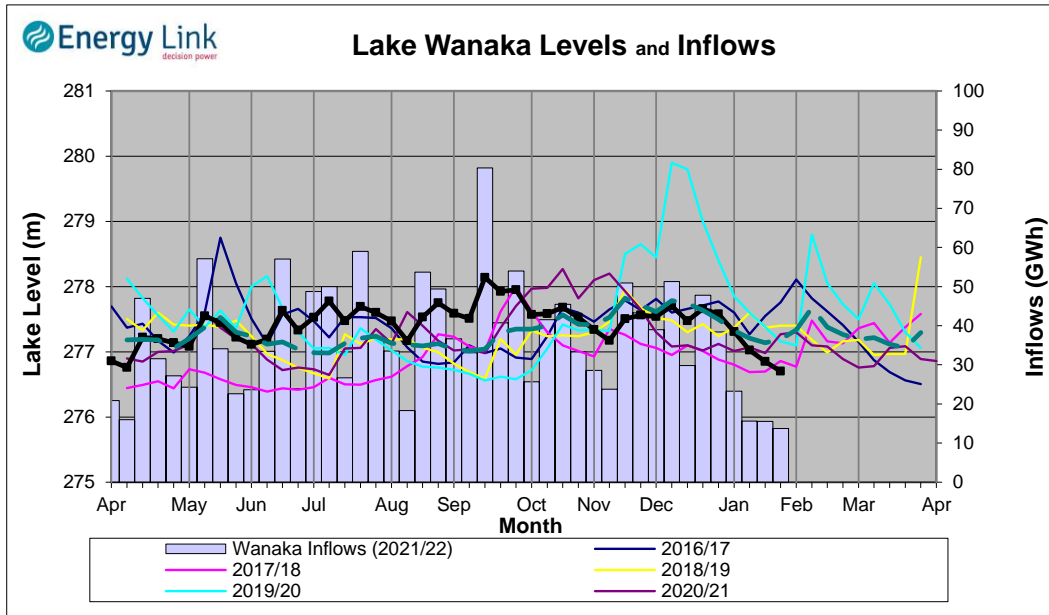
Lake Levels - Total storage for the Clutha System decreased 8.6% to 282 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 76%, 26.9% and 25% nominally full respectively.

Inflows - Total Inflows into the Clutha System 14% lower at 29 GWh.

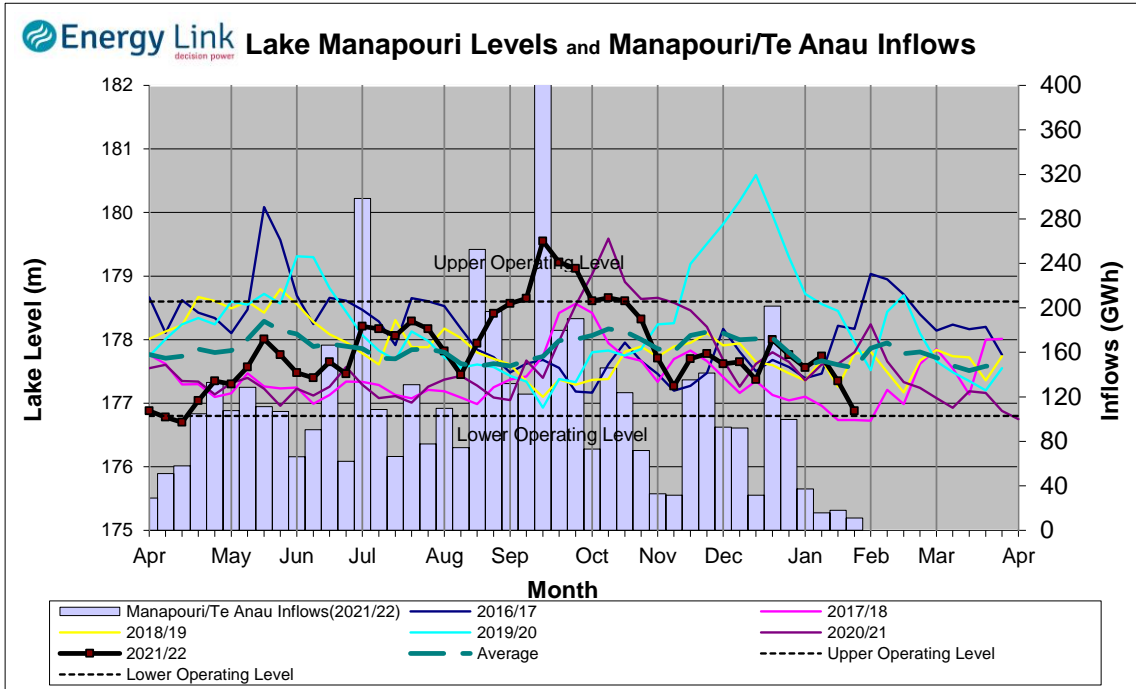
Generation - Average generation was 11.4% lower at 339 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 377.9 cumecs. This comprised of 115 cumecs from Lake Hawea, 136 cumecs from Lake Wanaka, 104 cumecs from Lake Wakatipu and 24 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 28.9% to 127 GWh with Lake Manapouri ending the week 36.9% nominally full and Lake Te Anau ending the week 24.5% nominally full.

Inflows - Total inflows into the Manapouri System decreased 39.3% to 11 GWh.

Generation - Average generation was 17.1% lower at 374 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 19.6 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'.

