



Thursday, 24 March 2022

Issue: 1301

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)	2338	132	2470	343	2812
Storage Change (GWh)	-149	-36	-186	-1	-186

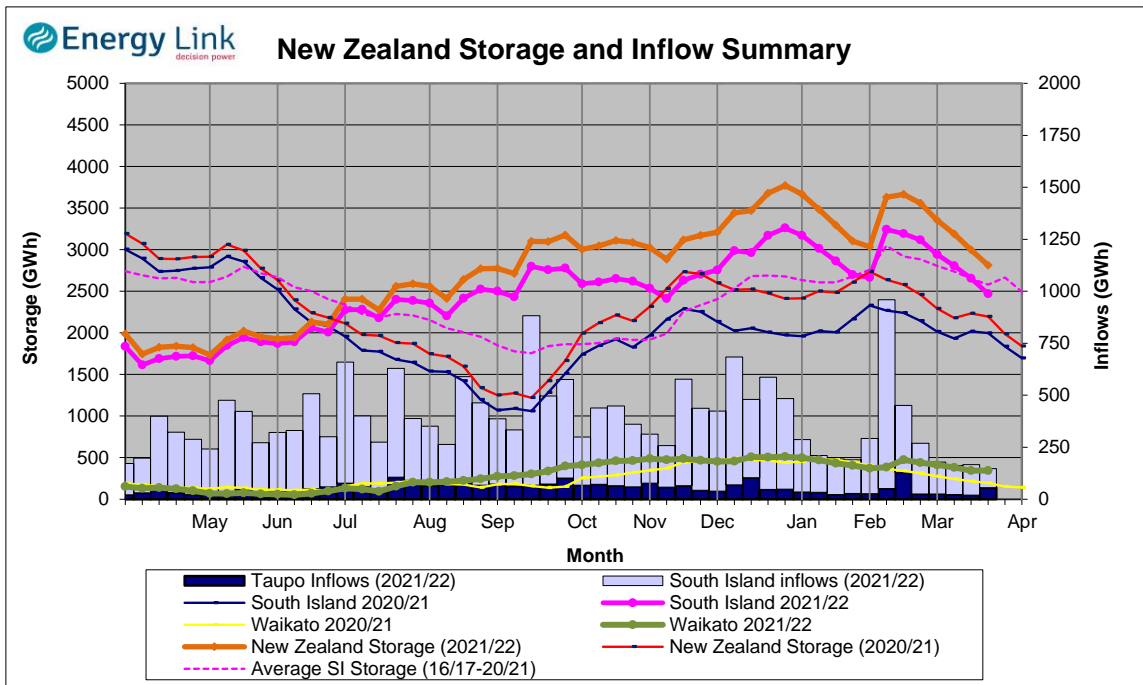
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2433	343	2775

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 186.5 GWh over the last week. South Island controlled storage decreased 6% to 2338 GWh; South Island uncontrolled storage decreased 21.6% to 132 GWh; with Taupo storage remaining steady at 343 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	95	246	2129	343	2812
Last Week	120	261	2274	343	2999
% Change	-21.3%	-5.6%	-6.4%	-0.2%	-6.2%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	14	18	61	55	147
Last Week	22	26	98	20	166
% Change	-38.1%	-30.1%	-38.3%	173.9%	-11.4%

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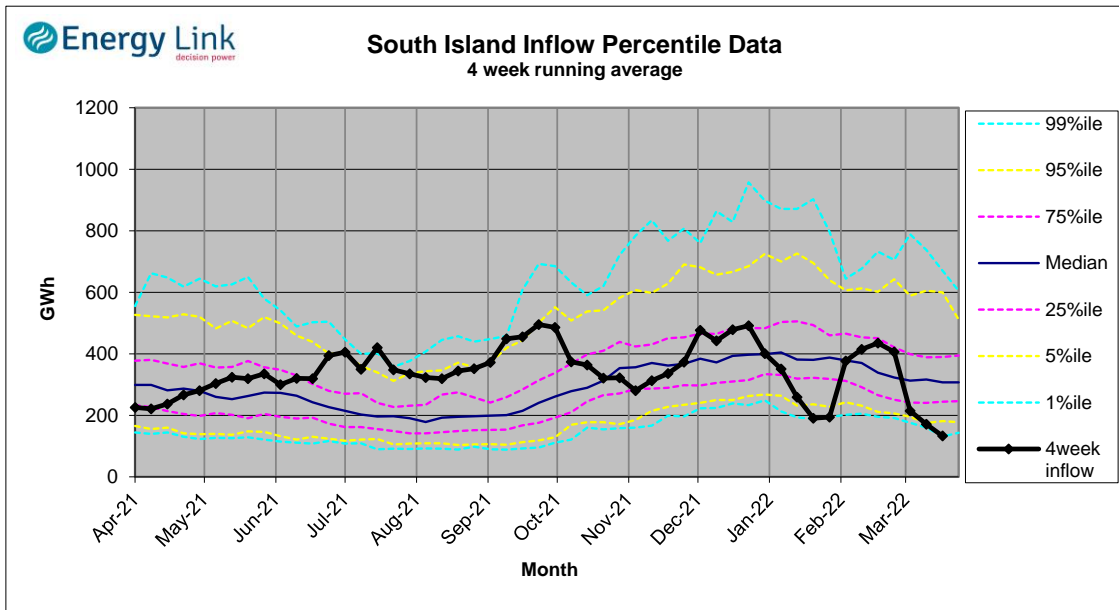
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	176.48	36	17	0
	Te Anau	201.25	58		
Clutha	Wakatipu	309.46	15	69	-12
	Wanaka	276.52	22	98	-12
	Hawea	343.71	209	42	-64
Waitaki	Tekapo	708.34	621		
	Pukaki	530.02	1508		
Waikato	Taupo	356.69	343		

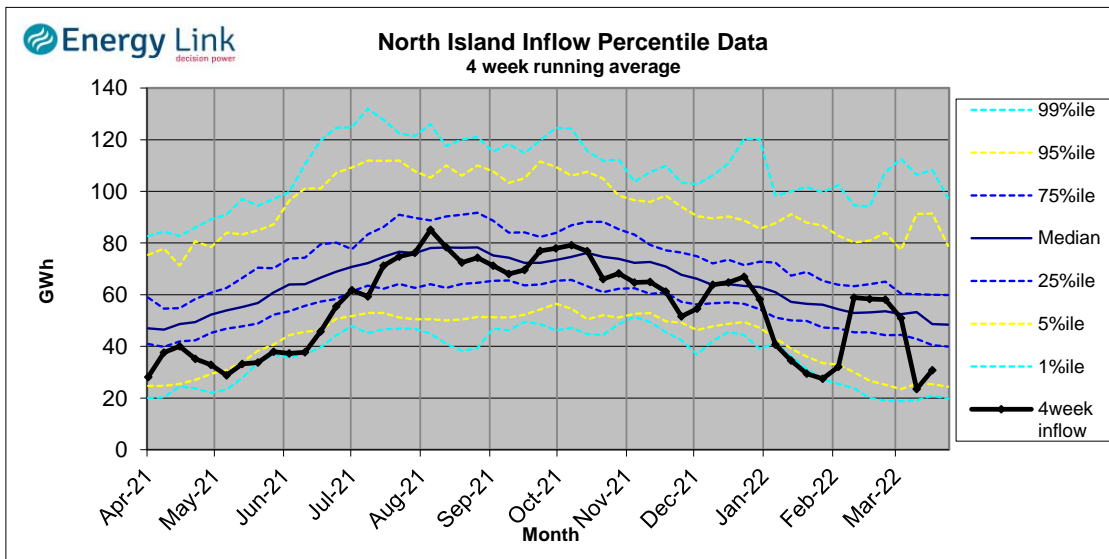
Inflow Summary

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.

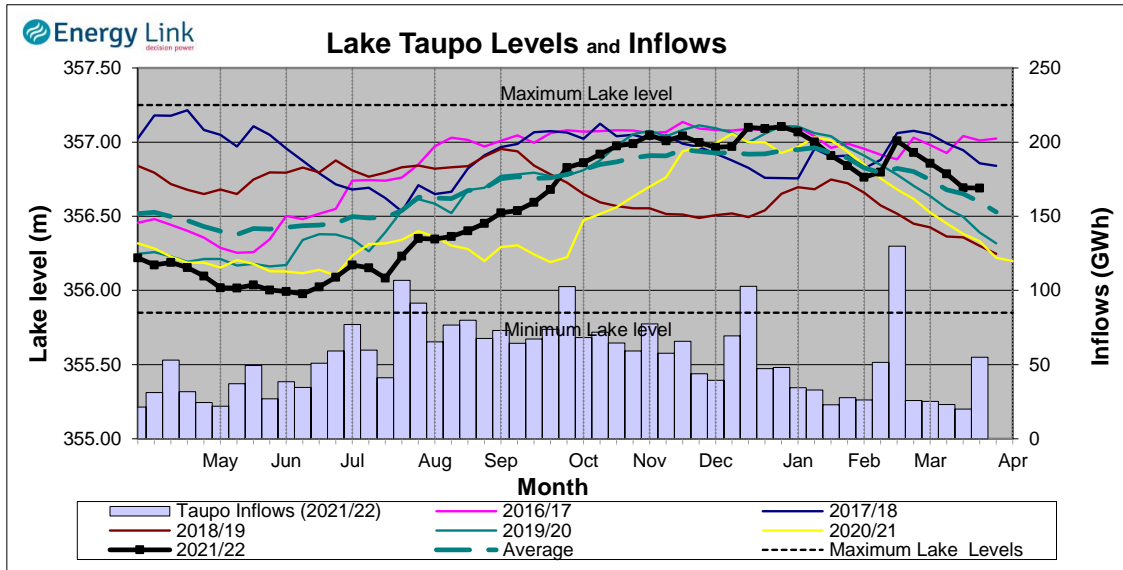
South Island Inflows - The past four weeks of S. I. inflows rank as the 2nd driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 11th driest on record.



Waikato System

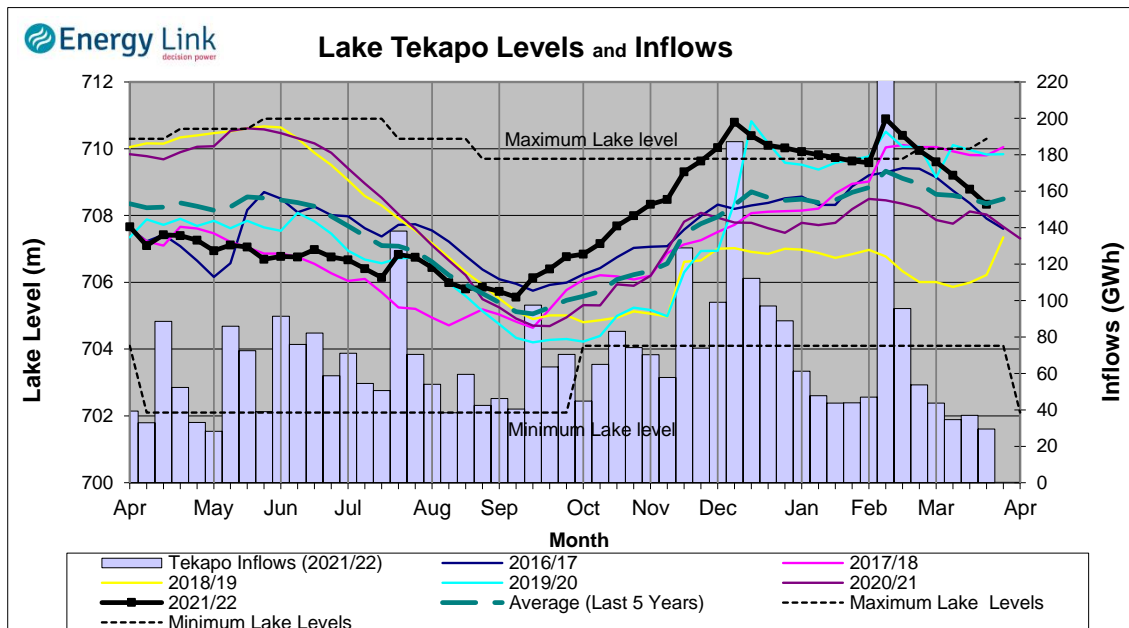


Lake Levels - Lake Taupo storage remained steady at 60% of nominal full at 343 GWh.

Inflows - Inflows increased 173.9% to 55 GWh.

Generation - Average generation increased 7.4% to 392.6 MW.

Tekapo



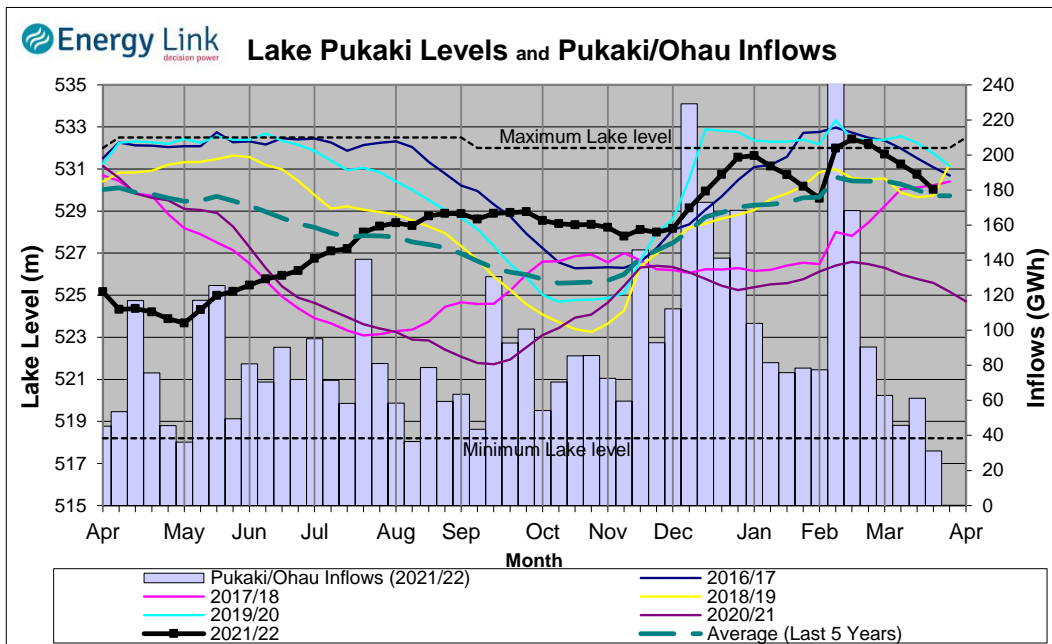
Lake Levels - Lake Tekapo ended the week 82% nominally full with storage falling to 621 GWh.

Inflows - Inflows into tekapo decreased 20.4% to 29 GWh.

Generation - Average Tekapo generation decreased 6.4% to 164.2 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 85% nominally full with storage falling to 1508 GWh.

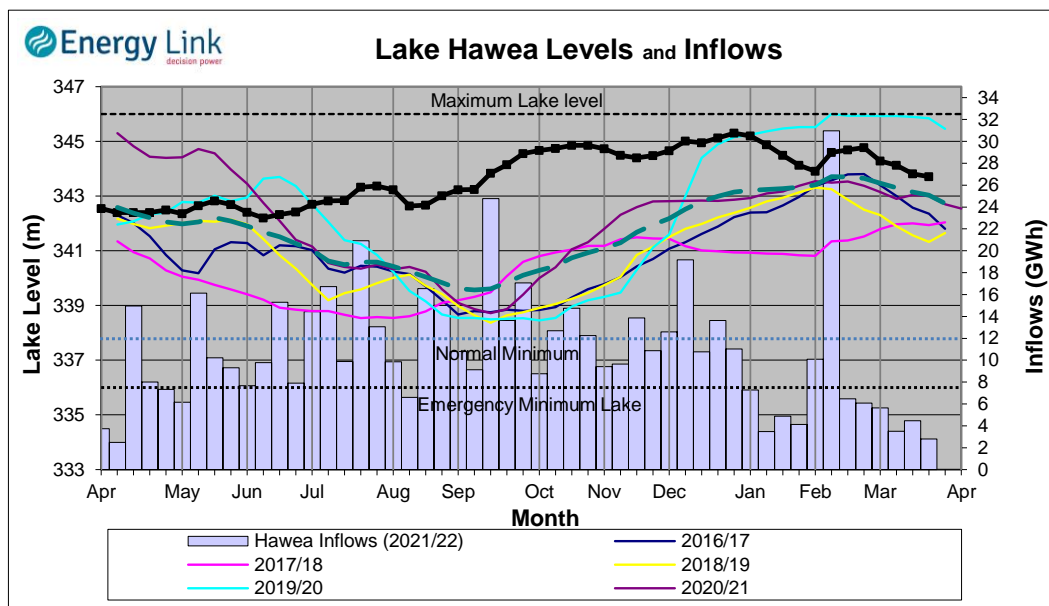
Inflows - Inflows into the Waitaki System decreased 49.2% to 31 GWh.

Generation - Average Waikati generation increased 3.5% to 1122.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 10.6 cumecs while Waitaki River flows were higher than last week averaging 436.9 cumecs.

Clutha System



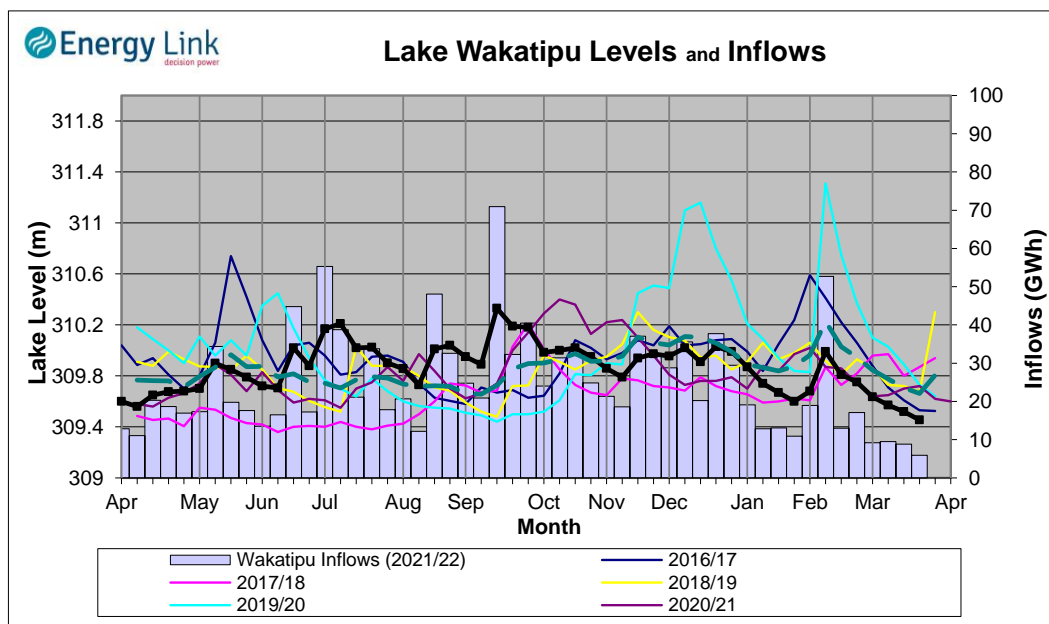
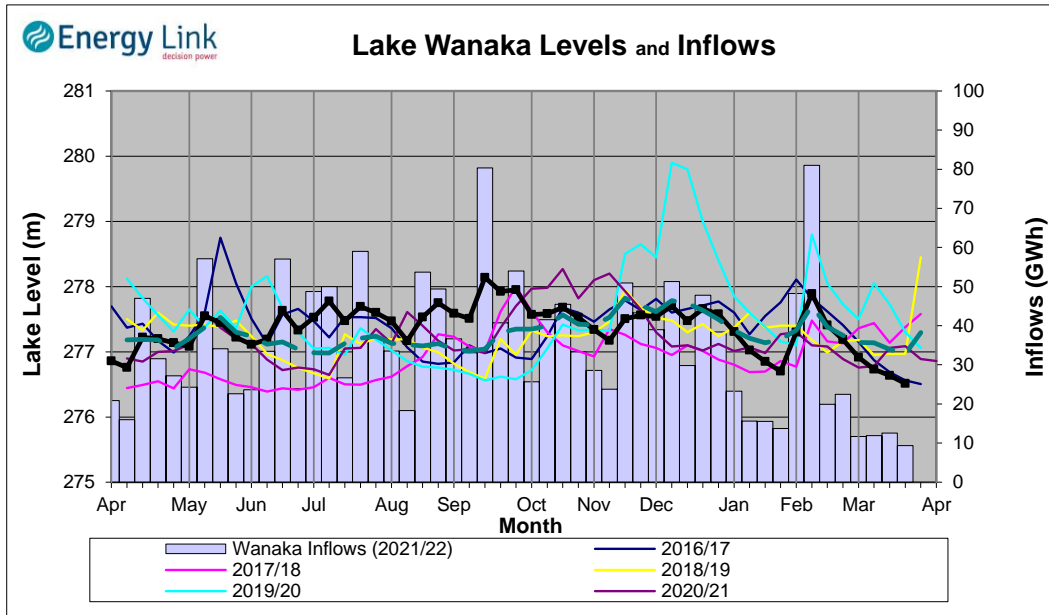
Lake Levels - Total storage for the Clutha System decreased 5.6% to 246 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 70.7%, 18.8% and 14.6% nominally full respectively.

Inflows - Total Inflows into the Clutha System 30.1% lower at 18 GWh.

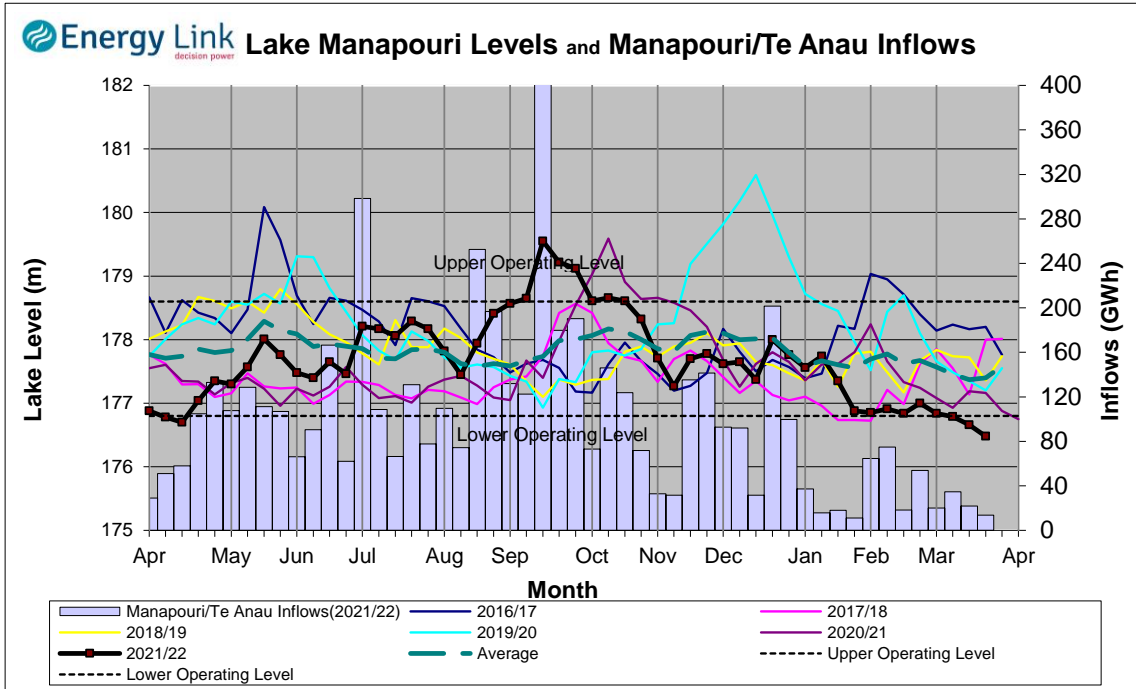
Generation - Average generation was 20.4% lower at 225 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 224.1 cumecs. This comprised of 42 cumecs from Lake Hawea, 98 cumecs from Lake Wanaka, 69 cumecs from Lake Wakatipu and 15 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 21.3% to 95 GWh with Lake Manapouri ending the week 22.4% nominally full and Lake Te Anau ending the week 21.2% nominally full.

Inflows - Total inflows into the Manapouri System decreased 38.1% to 14 GWh.

Generation - Average generation was 2.3% lower at 233 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 'Low operating range'.

