



Thursday, 13 May 2021

Issue: 1256

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)	1418	430	1848	68	1916
Storage Change (GWh)	109	72	181	0	181

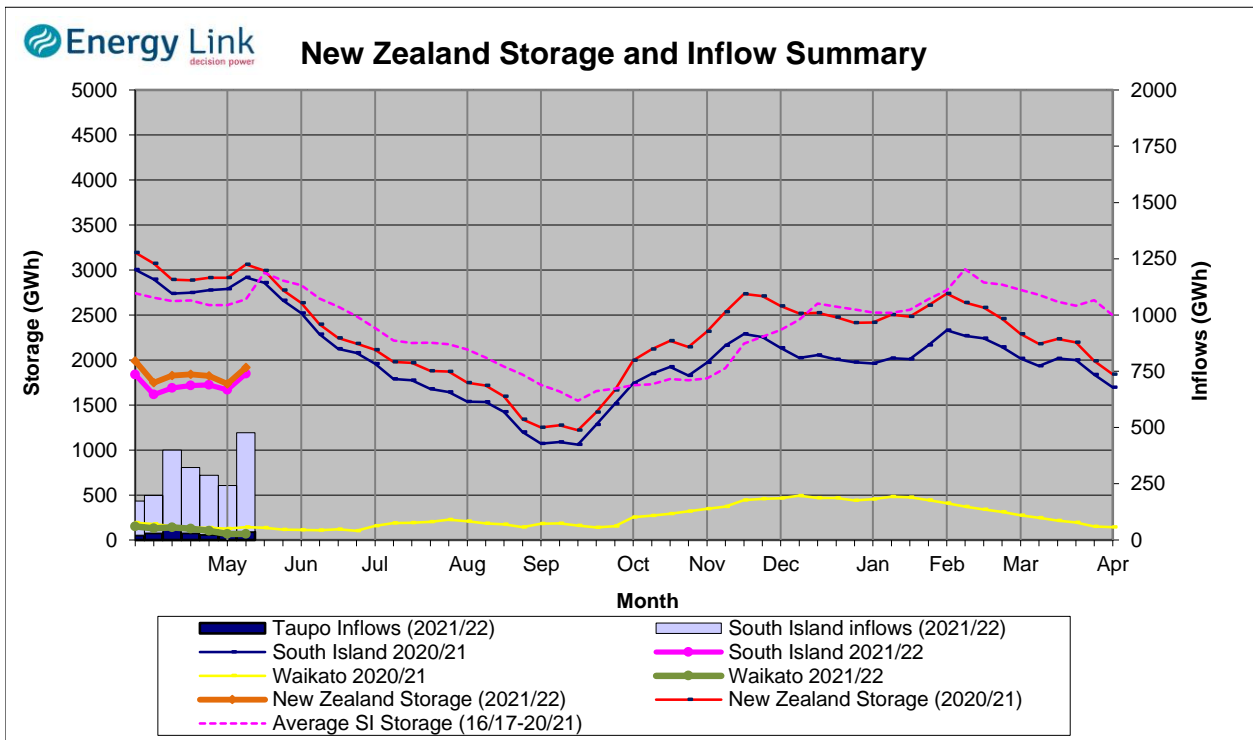
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply Current Storage (GWh)	South Island	North Island	New Zealand
	1725	68	1794

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 180.8 GWh over the last week. South Island controlled storage increased 8.3% to 1418 GWh; South Island uncontrolled storage increased 20.3% to 430 GWh; with Taupo storage decreasing 0.6% to 68 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	307	291	1249	68	1916
Last Week	273	242	1151	69	1735
% Change	12.4%	20.4%	8.5%	-0.6%	10.4%
Inflow (GWh)					
This Week	129	108	203	37	476
Last Week	108	48	64	22	242
% Change	19.4%	125.2%	215.4%	68.9%	97.0%

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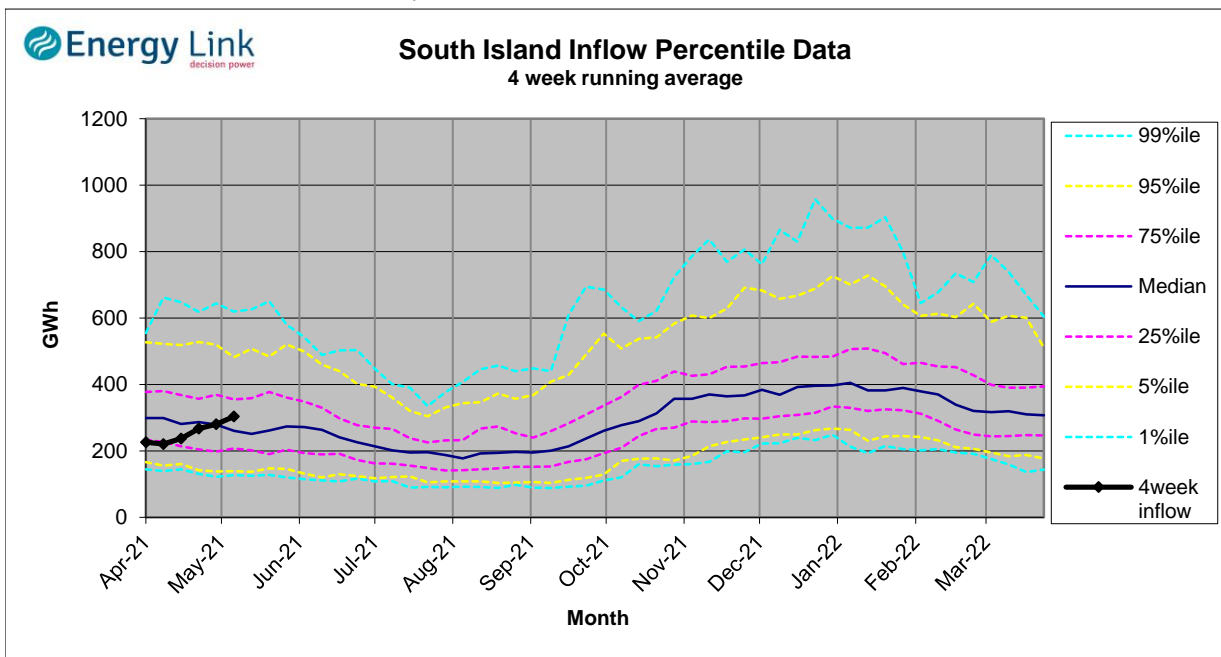
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.57	101	14	1
	Te Anau	202.24	206		
Clutha	Wakatipu	309.90	49	123	22
	Wanaka	277.55	73	216	
	Hawea	342.65	169	34	
Waitaki	Tekapo	707.12	492		41
	Pukaki	524.31	757		
Waikato	Taupo	356.02	68		-36

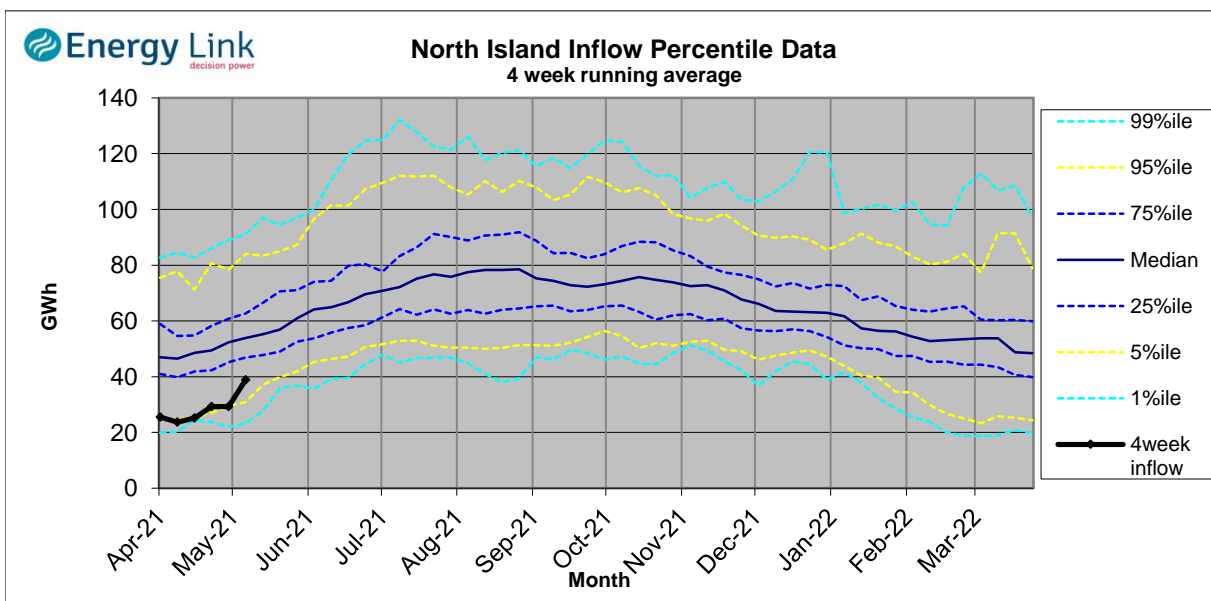
Inflow Summary

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.

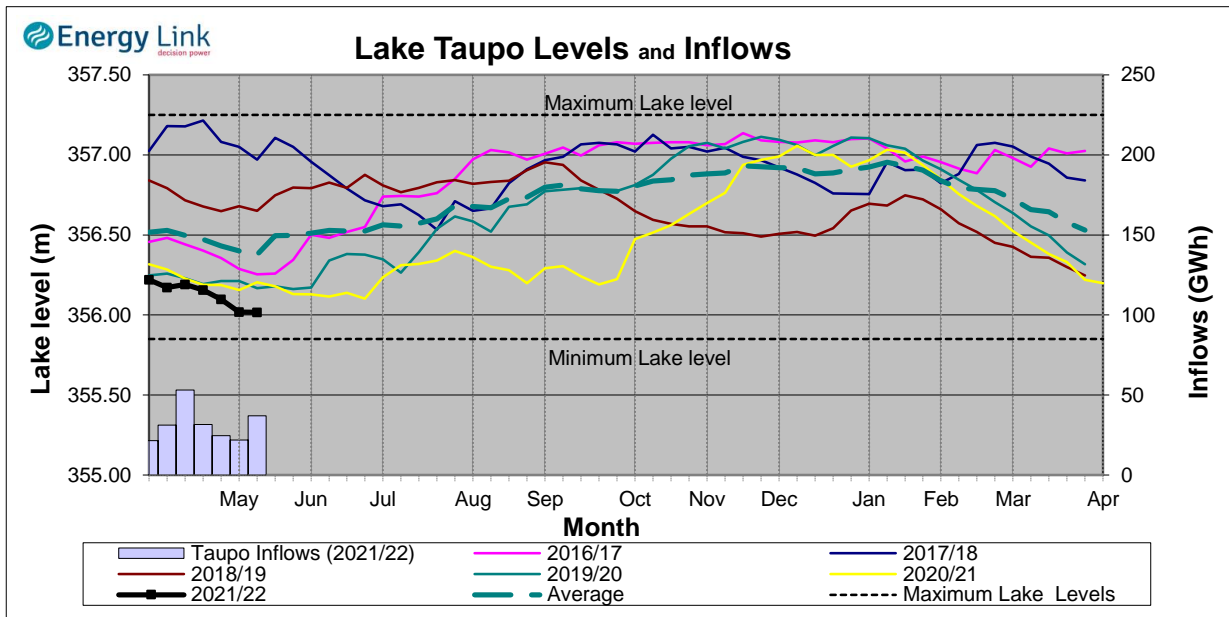
South Island Inflows - The past four weeks of S. I. inflows rank as the 35th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 5th driest on record.



Waikato System

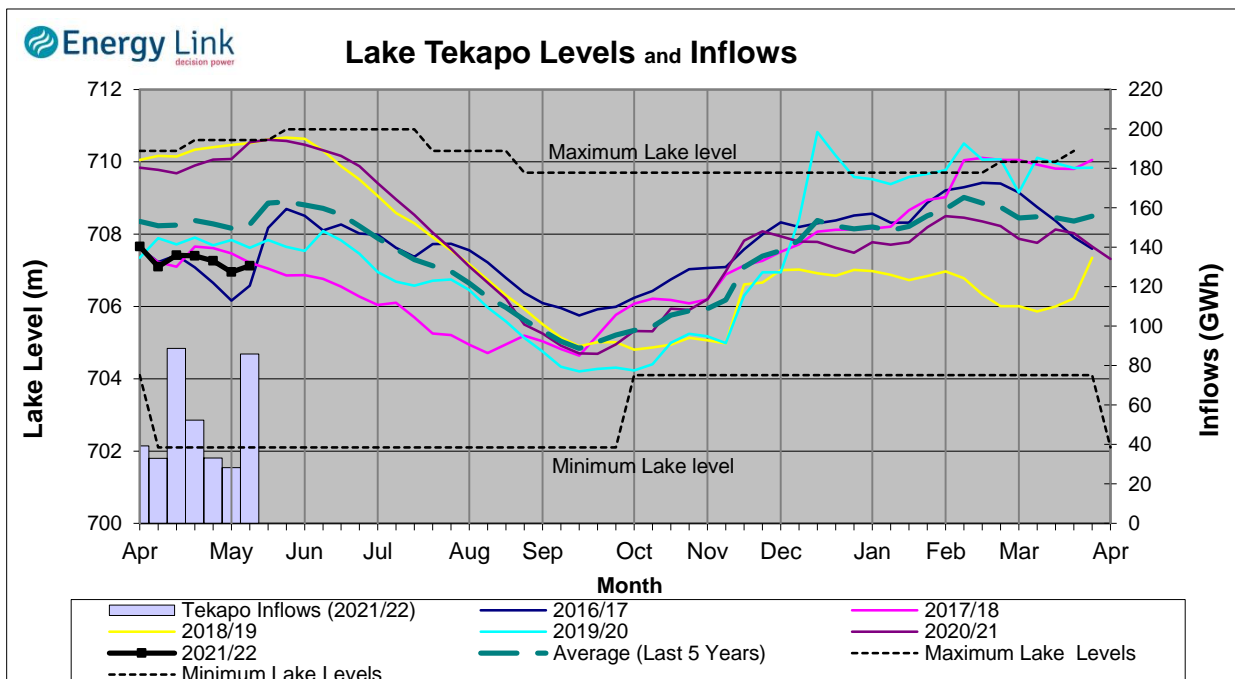


Lake Levels - Lake Taupo storage fell to 11.9% of nominal full at 68 GWh.

Inflows - Inflows increased 68.9% to 37 GWh.

Generation - Average generation decreased 21.2% to 280 MW.

Tekapo



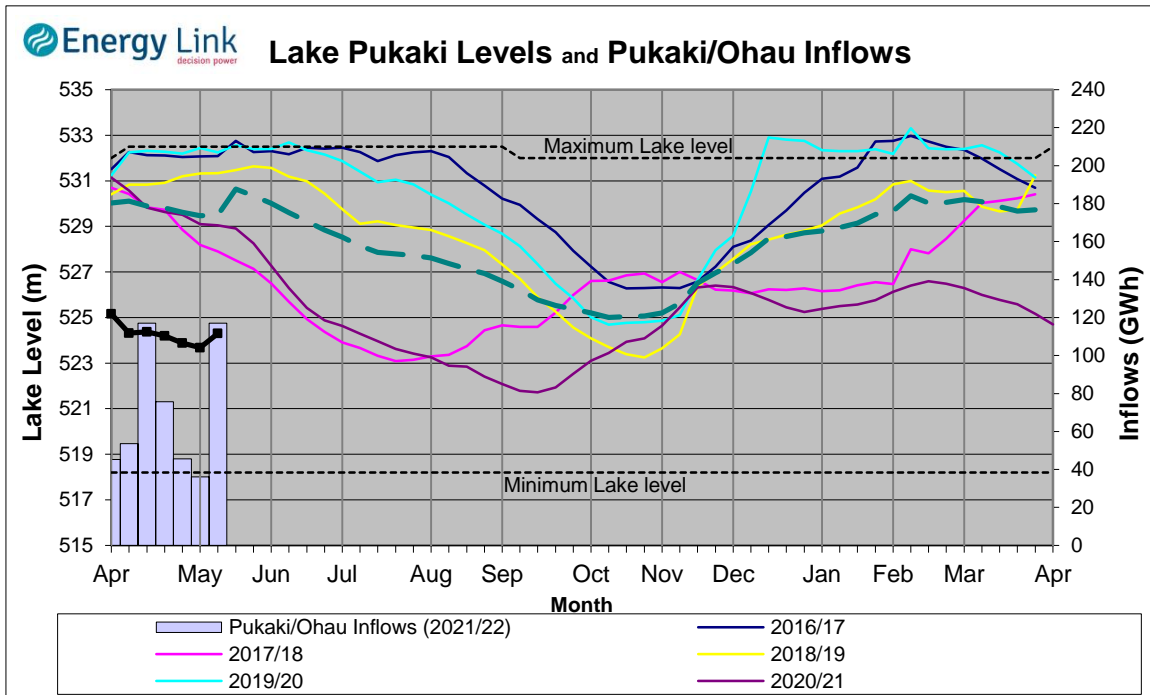
Lake Levels - Lake Tekapo ended the week 60% nominally full with storage increasing to 492 GWh.

Inflows - Inflows into tekapo increased 204.3% to 86 GWh.

Generation - Average Tekapo generation increased 12.6% to 143.4 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 41% nominally full with storage increasing to 757 GWh

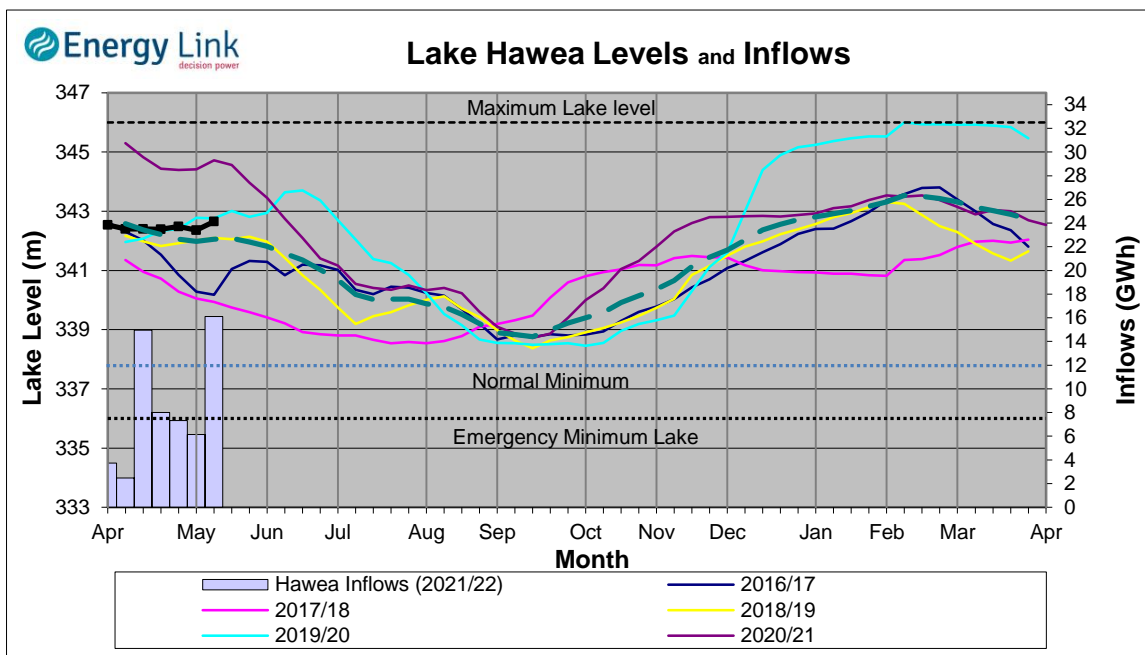
Inflows - Inflows into the Waitaki System increased 224.1% to 117 GWh.

Generation - Average Waikati generation decreased 19.4% to 540.5 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 25.3 cumecs while Waitaki River flows were lower than last week averaging 223.4 cumecs.

Clutha System



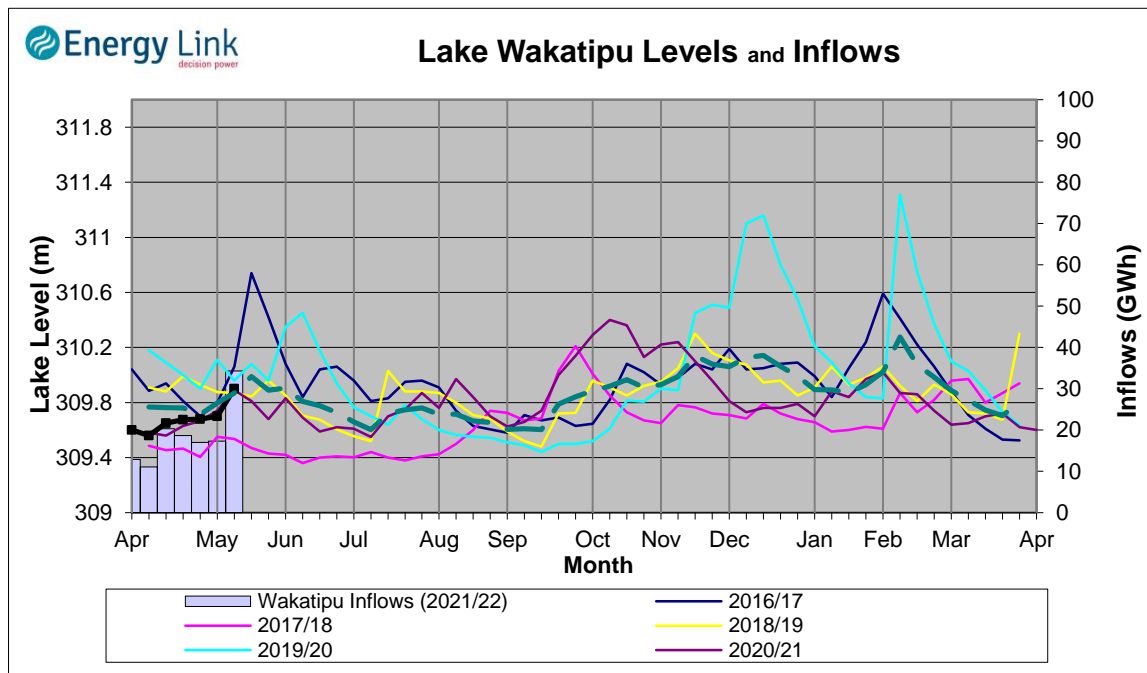
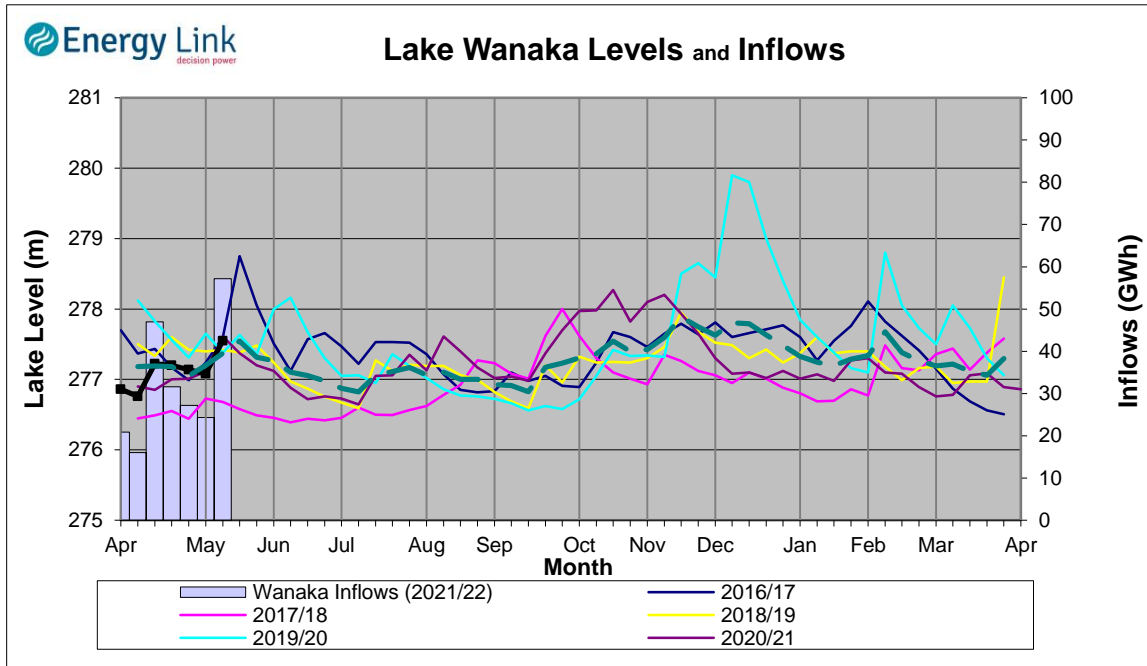
Lake Levels - Total storage for the Clutha System increased by 20.4% to 291 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 57.3%, 63.8% and 46.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 125.2% higher at 108 GWh.

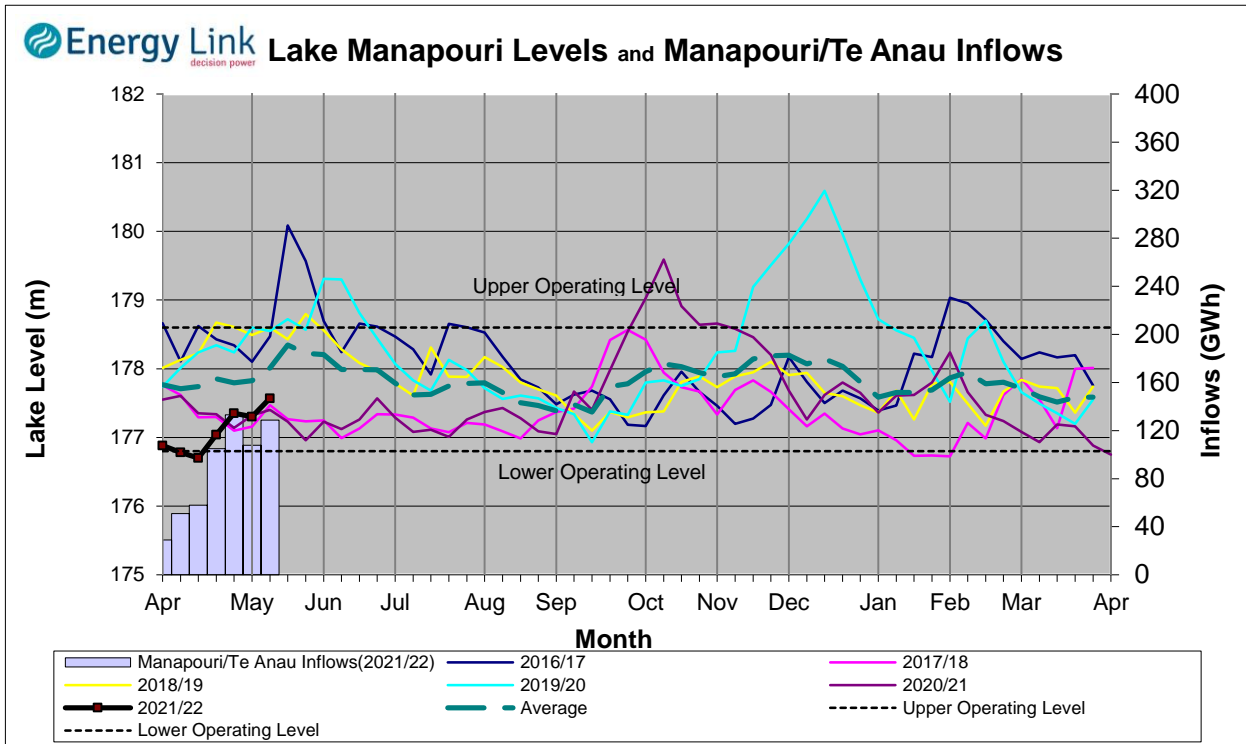
Generation - Average generation was 10.6% higher at 390 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 423 cumecs. This comprised of 34 cumecs from Lake Hawea, 216 cumecs from Lake Wanaka, 123 cumecs from Lake Wakatipu and 49 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 12.4% to 307 GWh with Lake Manapouri ending the week 62.1% nominally full and Lake Te Anau ending the week 75% nominally full.

Inflows - Total inflows into the Manapouri System increased 19.4% to 129 GWh.

Generation - Average generation was 5.6% lower at 563 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 14.4 cumecs.

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

