



Thursday, 10 February 2022

Issue: 1295

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)	2921	324	3246	386	3632
Storage Change (GWh)	498	83	581	13	595

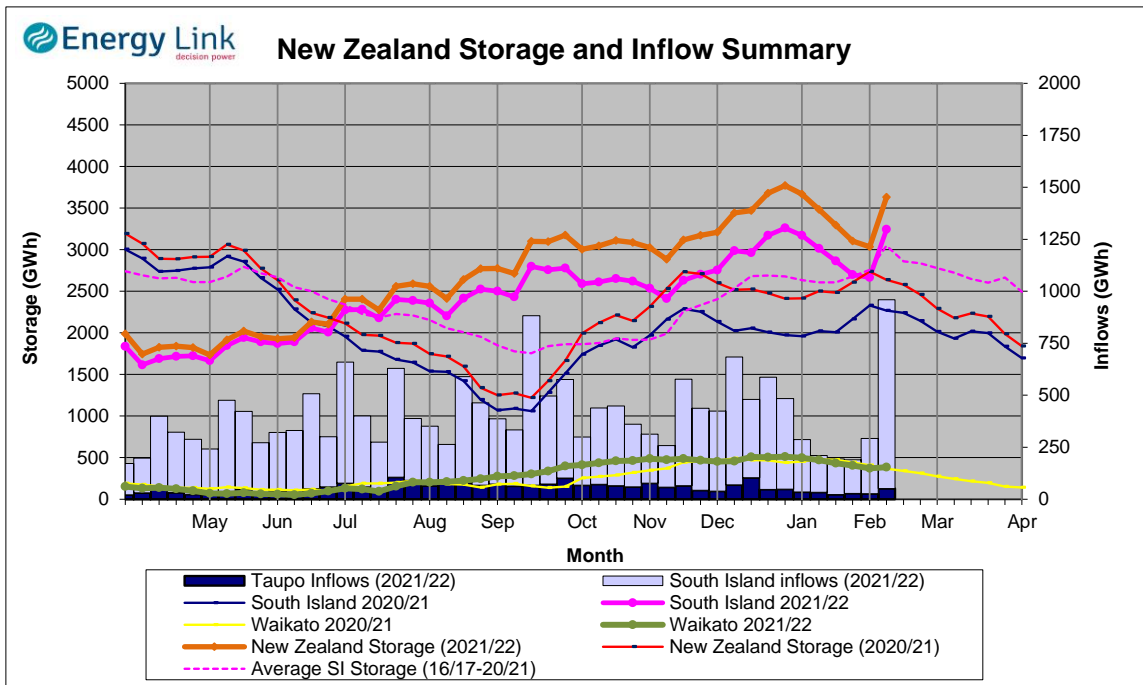
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3100	386	3486

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 594.9 GWh over the last week. South Island controlled storage increased 20.6% to 2921 GWh; South Island uncontrolled storage increased 34.5% to 324 GWh; with Taupo storage increasing 3.6% to 386 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	178	388	2679	386	3632
Last Week	148	310	2207	373	3037
% Change	20.6%	25.4%	21.4%	3.6%	19.6%
Inflow (GWh)					
This Week	75	165	669	51	960
Last Week	65	77	124	26	292
% Change	15.9%	113.0%	438.1%	96.0%	228.3%

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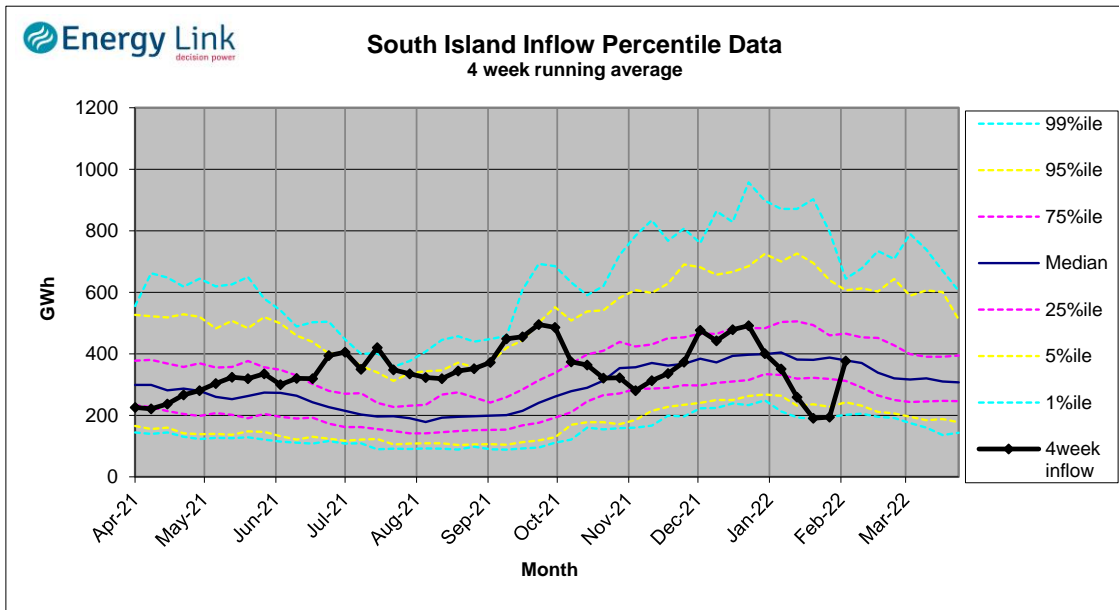
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	176.91	62	17	
	Te Anau	201.64	117		
Clutha	Wakatipu	309.99	56	188	
	Wanaka	277.89	90	331	
	Hawea	344.60	242	32	
Waitaki	Tekapo	710.90	902		
	Pukaki	531.99	1777		
Waikato	Taupo	356.80	386		

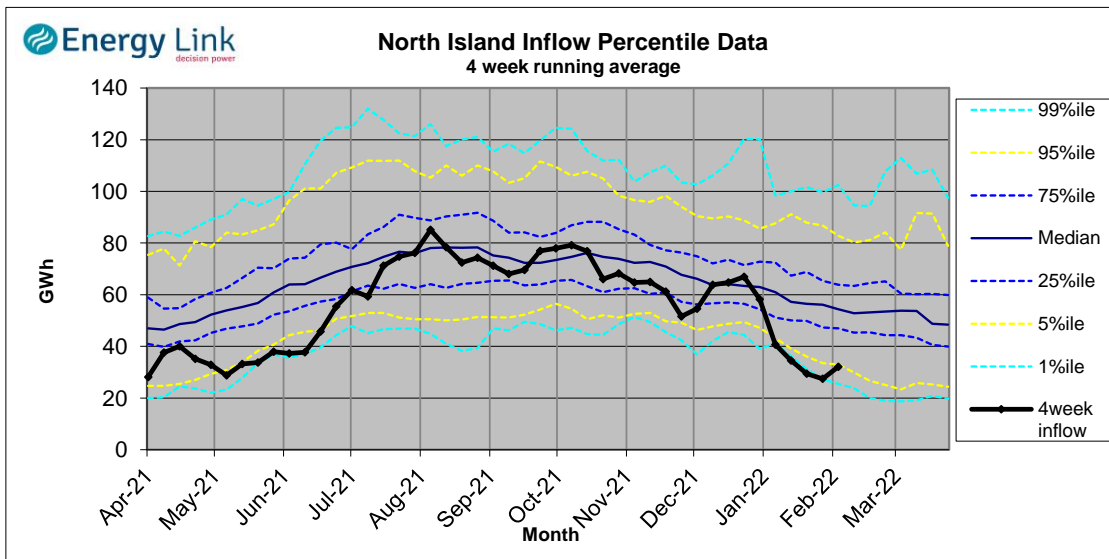
Inflow Summary

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.

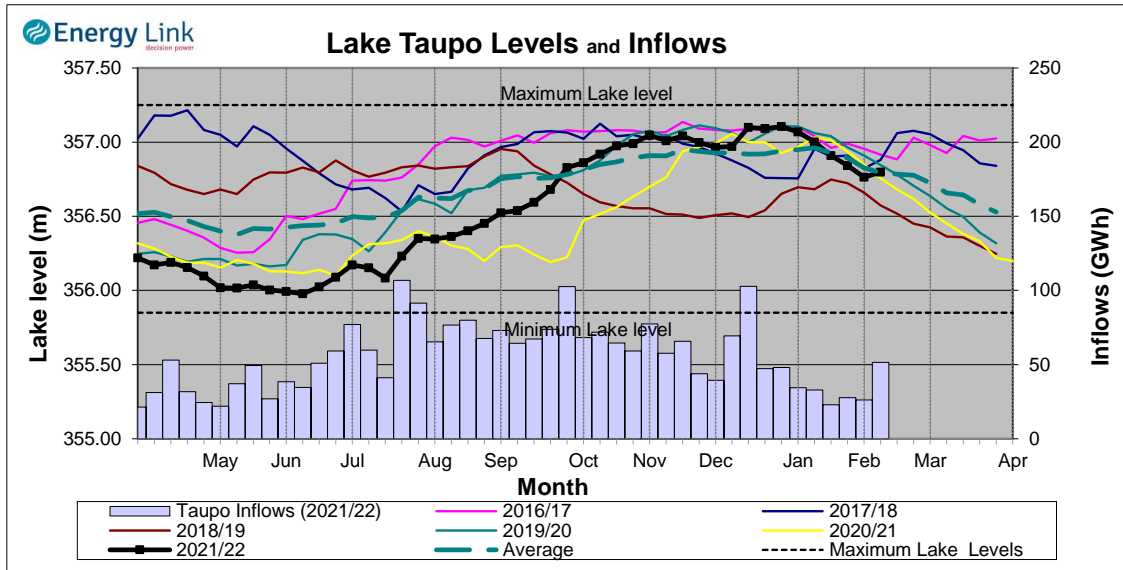
South Island Inflows - The past four weeks of S. I. inflows rank as the 45th driest on record.



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



Waikato System

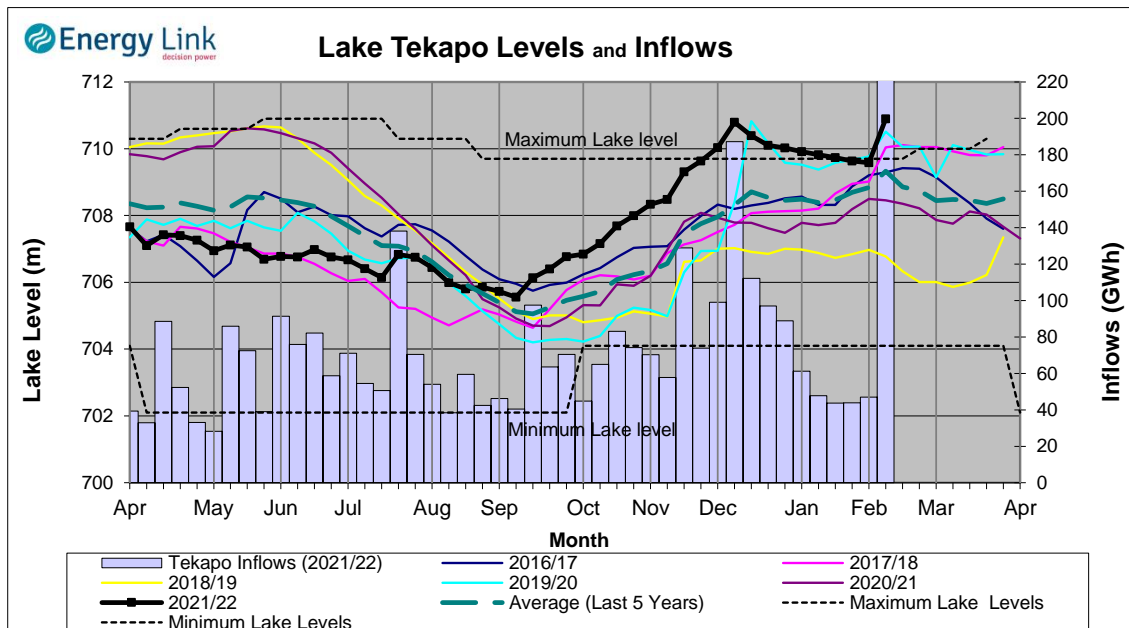


Lake Levels - Lake Taupo storage increased to 67.7% of nominal full at 386 GWh.

Inflows - Inflows increased 96% to 51 GWh.

Generation - Average generation decreased 21.2% to 298.2 MW.

Tekapo



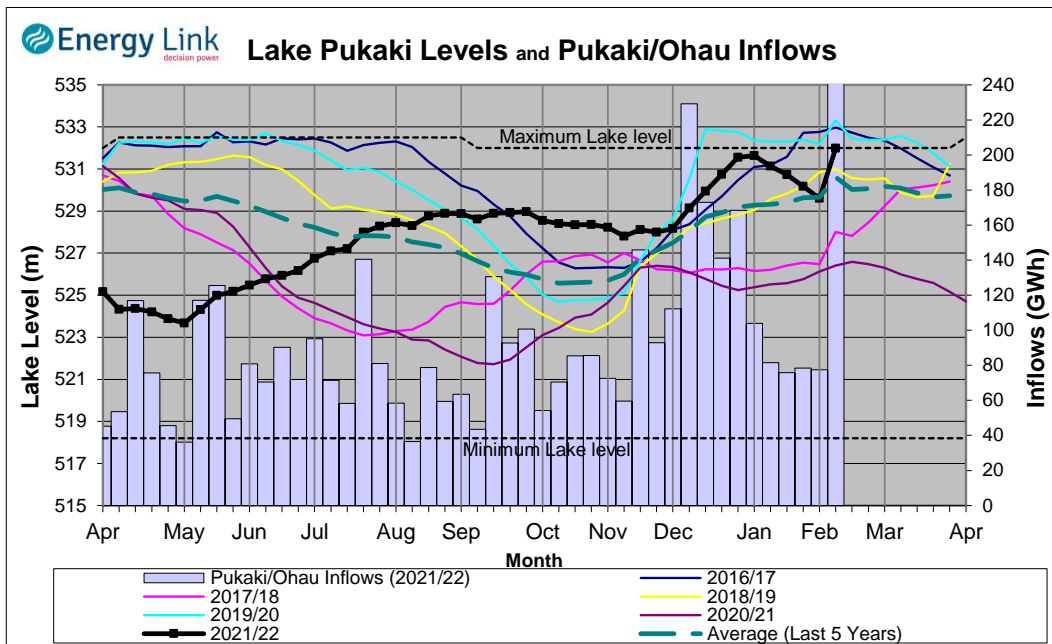
Lake Levels - Lake Tekapo ended the week 125% nominally full with storage increasing to 902 GWh.

Inflows - Inflows into tekapo increased 434% to 251 GWh.

Generation - Average Tekapo generation increased 0.7% to 89.8 MW.

Hydro Spill - Lake Tekapo spill was 92.6 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 100% nominally full with storage increasing to 1777 G

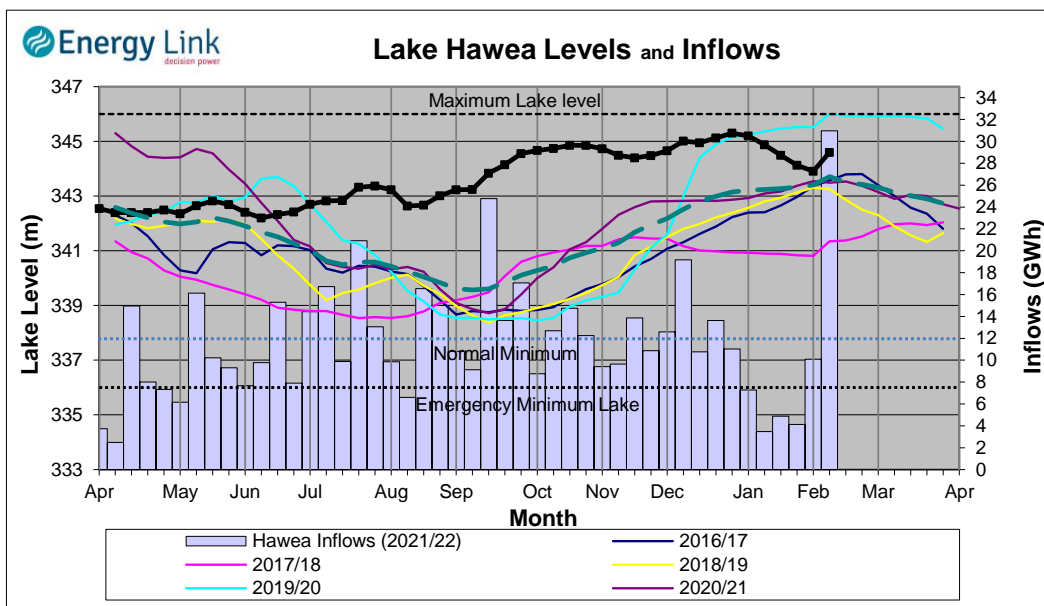
Inflows - Inflows into the Waitaki System increased 440.6% to 418 GWh.

Generation - Average Waikati generation decreased 10.7% to 1072.7 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 72.7 cumecs while Waitaki River flows were higher than last week averaging 545.9 cumecs.

Clutha System



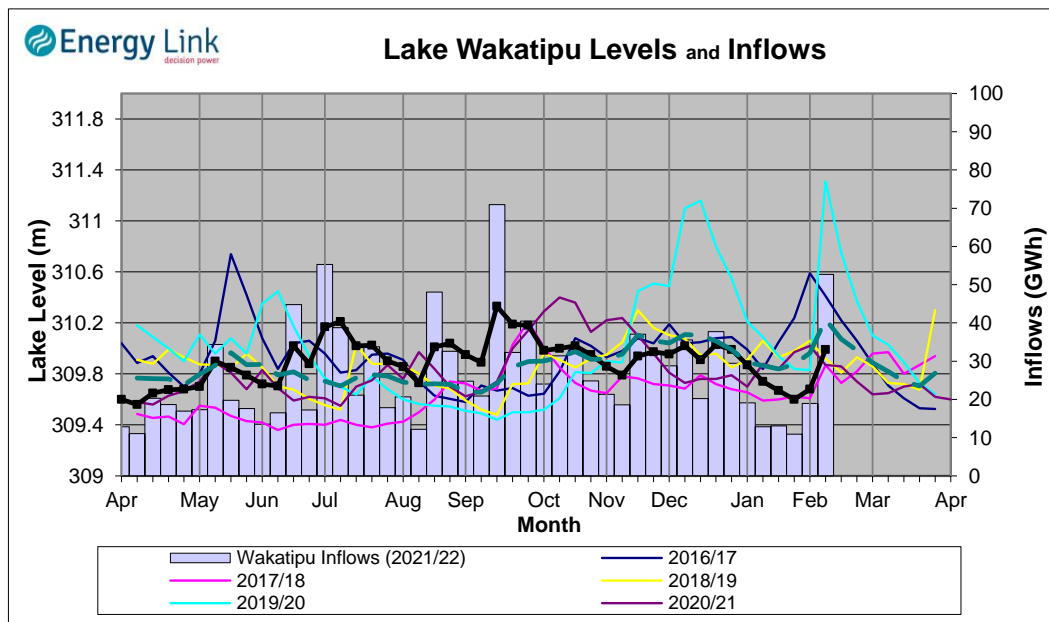
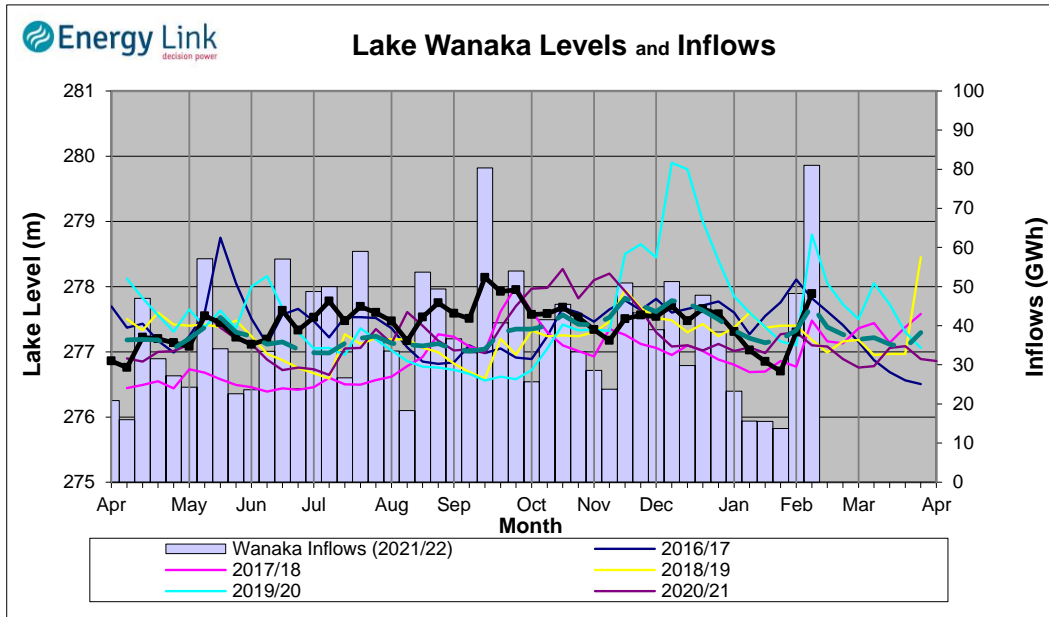
Lake Levels - Total storage for the Clutha System increased by 25.4% to 388 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 82.1%, 78.6% and 52.9% nominally full respectively.

Inflows - Total Inflows into the Clutha System 113% higher at 165 GWh.

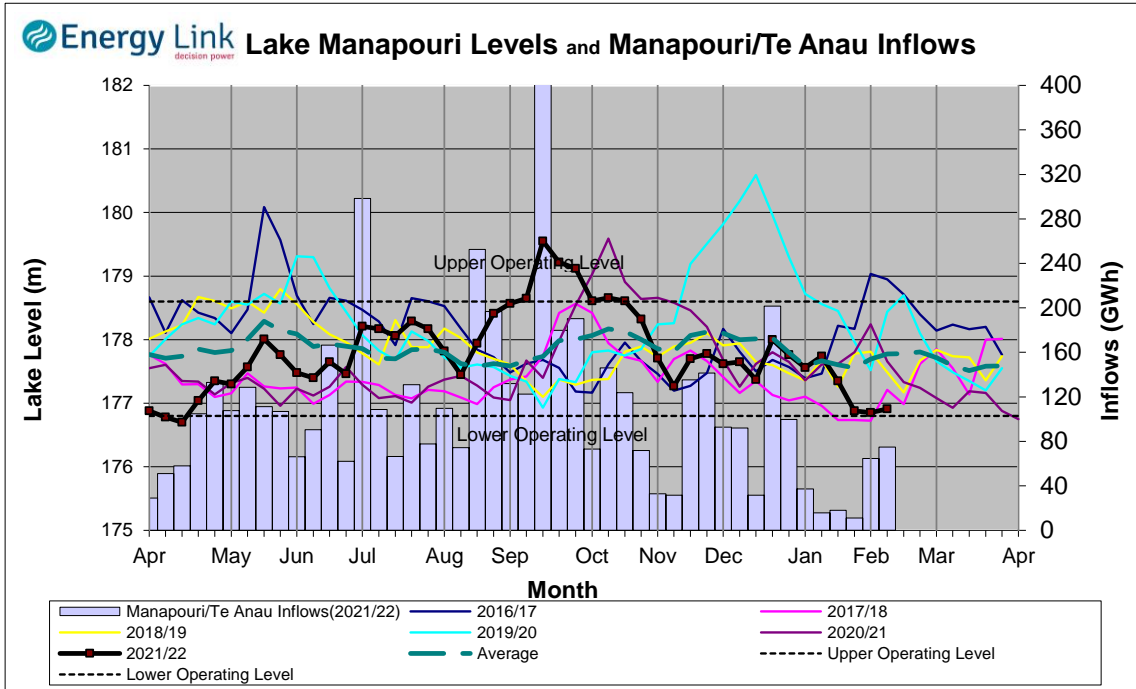
Generation - Average generation was 59.9% higher at 510 MW.

Hydro Spill - Estimate Spill is 46.7 cumecs.

River Flows - Total outflows from the lakes and Shotover River increased to 606.8 cumecs. This comprised of 32 cumecs from Lake Hawea, 331 cumecs from Lake Wanaka, 188 cumecs from Lake Wakatipu and 56 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 20.6% to 178 GWh with Lake Manapouri ending the week 38% nominally full and Lake Te Anau ending the week 42.4% nominally full.

Inflows - Total inflows into the Manapouri System increased 15.9% to 75 GWh.

Generation - Average generation was 1% higher at 264 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 17.2 cumecs.

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

