



Thursday, 13 January 2022

Issue: 1291

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)	2694	321	3015	470	3484
Storage Change (GWh)	-91	-66	-157	-27	-184

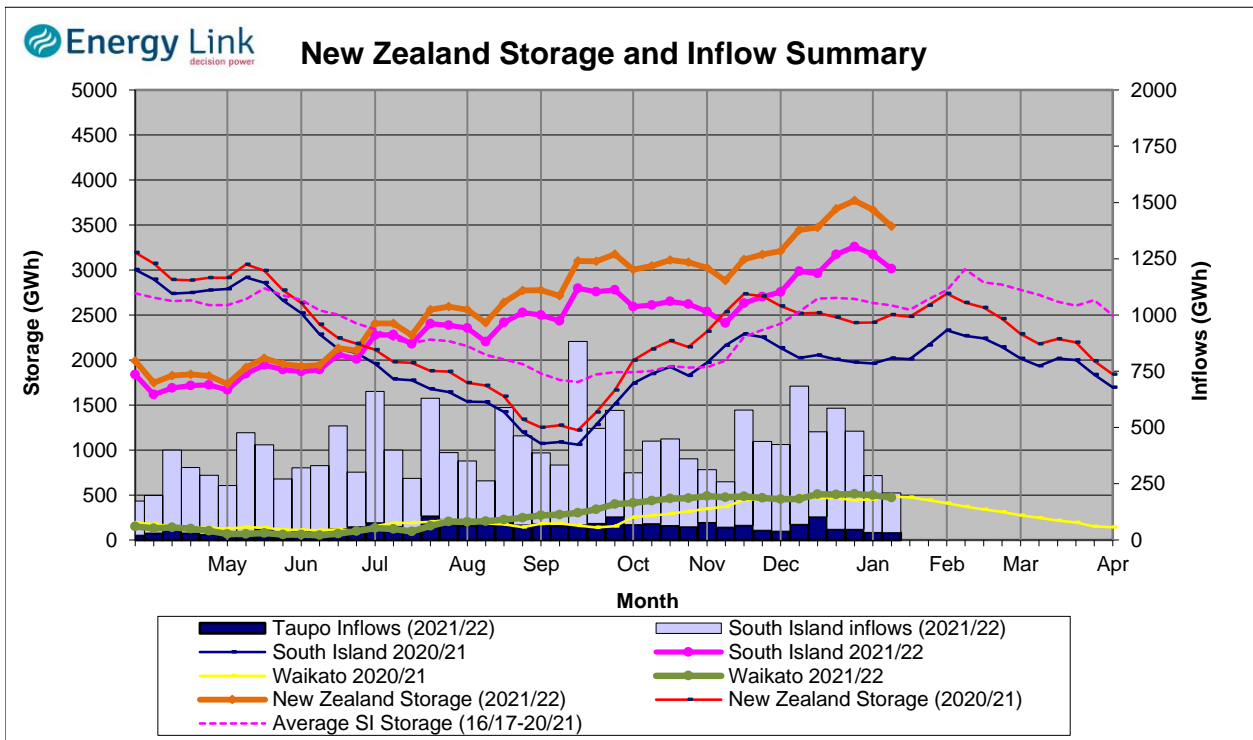
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2931	470	3400

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 184.2 GWh over the last week. South Island controlled storage decreased 3.3% to 2694 GWh; South Island uncontrolled storage decreased 17% to 321 GWh; with Taupo storage decreasing 5.5% to 470 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	237	337	2441	470	3484
Last Week	278	373	2520	497	3669
% Change	-15.0%	-9.7%	-3.1%	-5.5%	-5.0%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	16	32	129	33	210
Last Week	37	50	165	34	287
% Change	-58.0%	-35.7%	-21.8%	-4.6%	-26.8%

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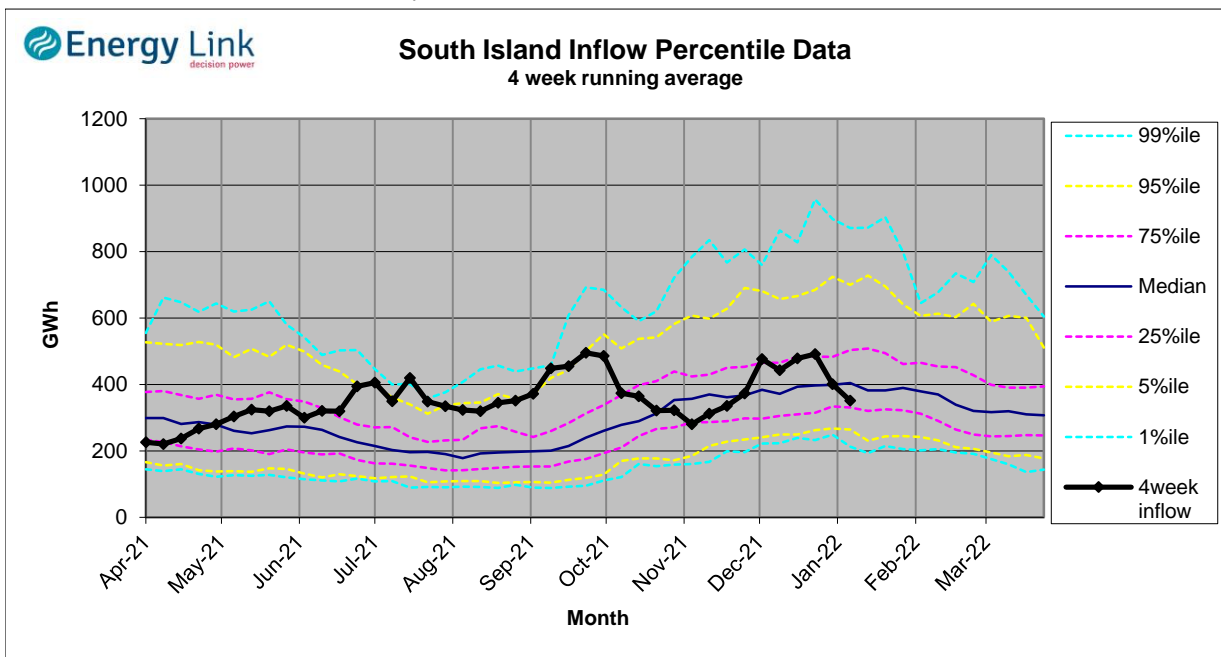
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.74	111	34	17
	Te Anau	201.70	126		
Clutha	Wakatipu	309.74	37	145	-35
	Wanaka	277.03	47	191	-44
	Hawea	344.88	253	100	29
Waitaki	Tekapo	709.82	782		
	Pukaki	531.13	1659		
Waikato	Taupo	357.00	470		

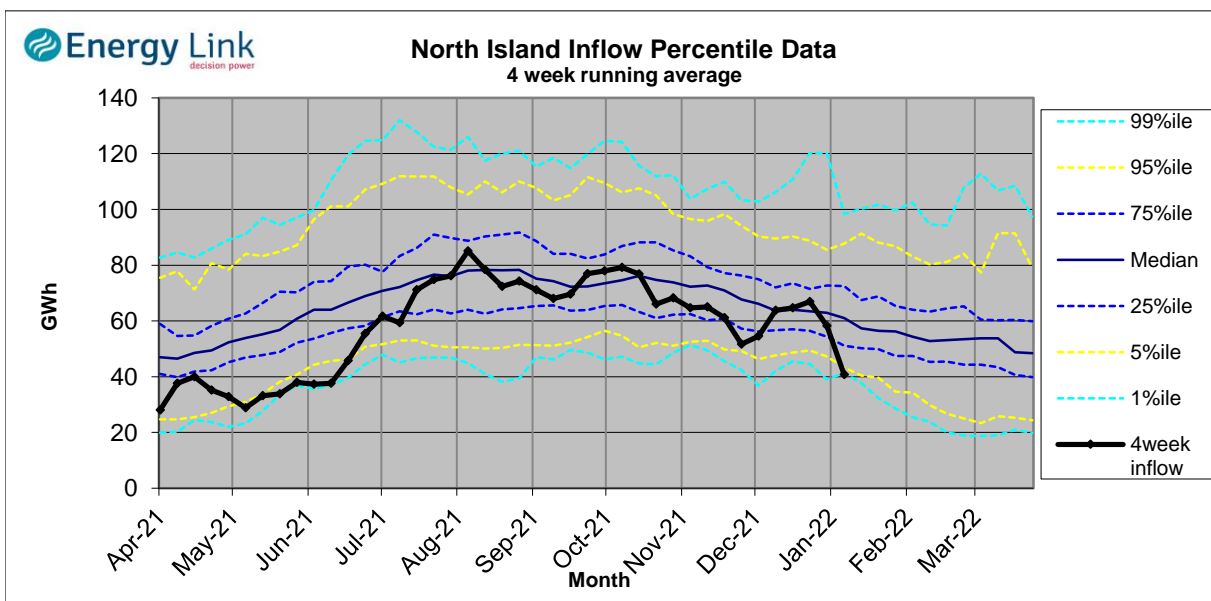
Inflow Summary

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.

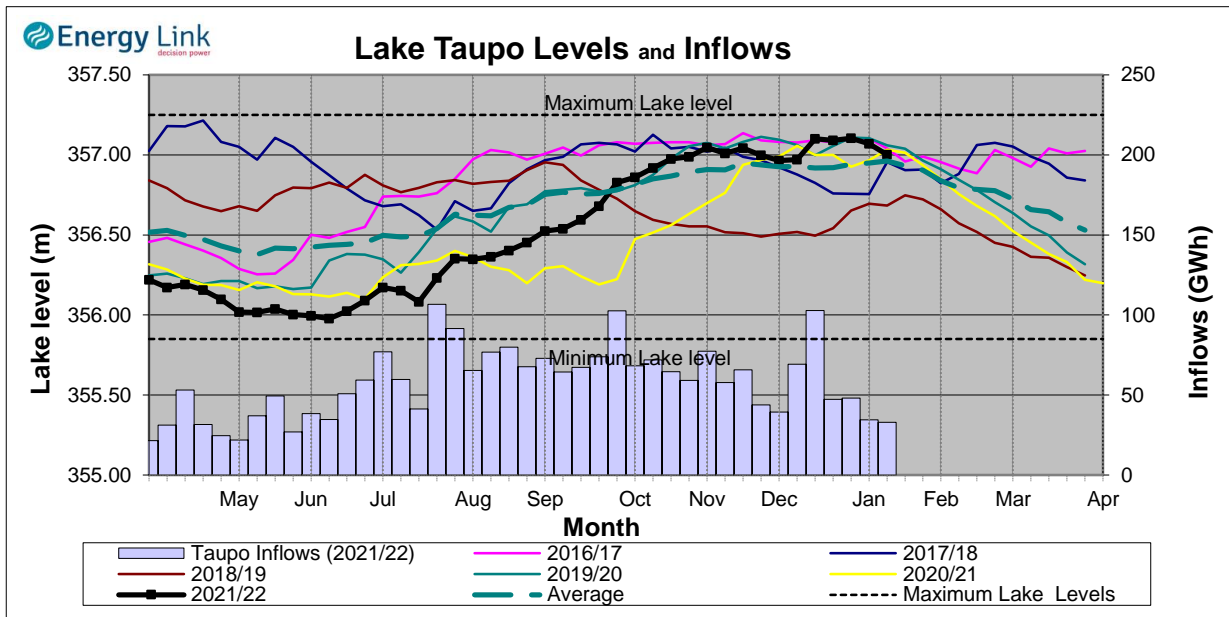
South Island Inflows - The past four weeks of S. I. inflows rank as the 33rd driest on record.



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



Waikato System

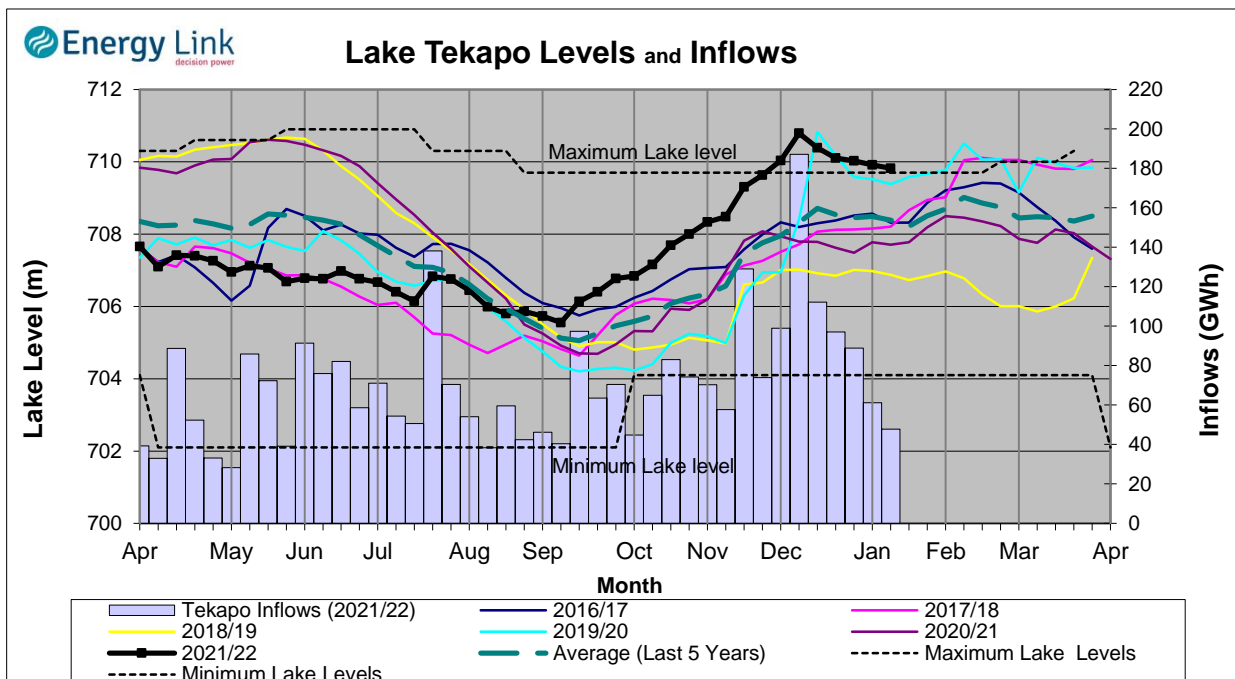


Lake Levels - Lake Taupo storage fell to 82.3% of nominal full at 470 GWh.

Inflows - Inflows decreased 4.6% to 33 GWh.

Generation - Average generation increased 9.3% to 352.8 MW.

Tekapo



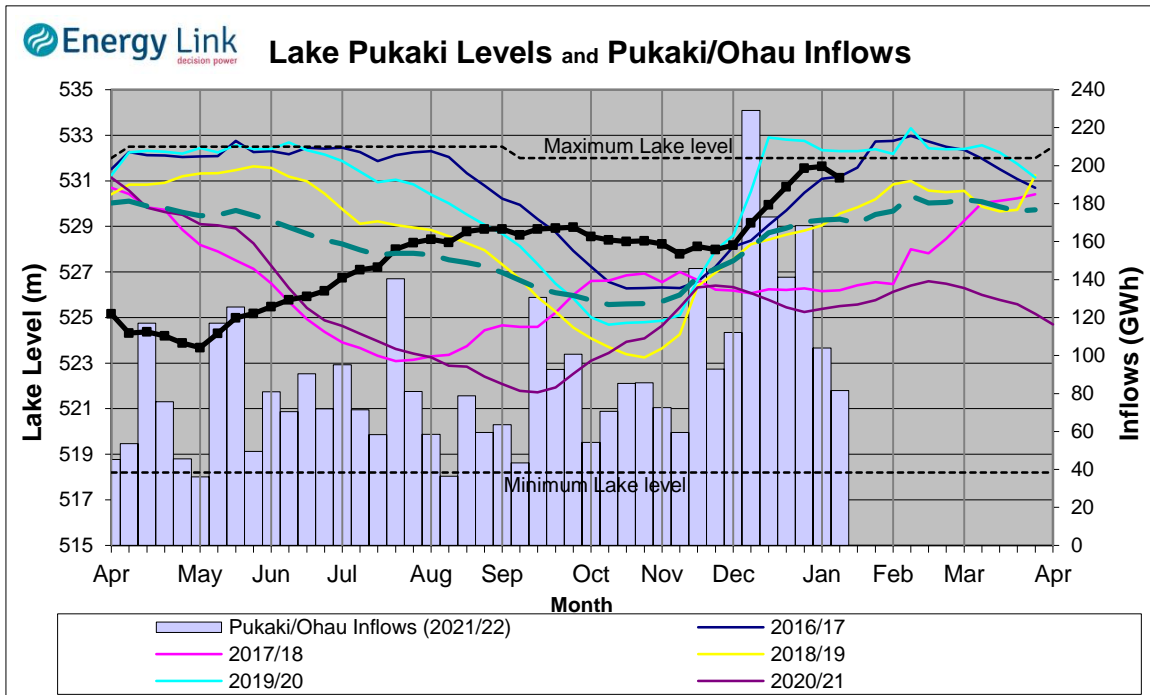
Lake Levels - Lake Tekapo ended the week 108% nominally full with storage falling to 782 GWh.

Inflows - Inflows into tekapo decreased 22% to 48 GWh.

Generation - Average Tekapo generation remained steady at 90 MW.

Hydro Spill - Lake Tekapo spill was 25.2 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 93% nominally full with storage falling to 1659 GWh.

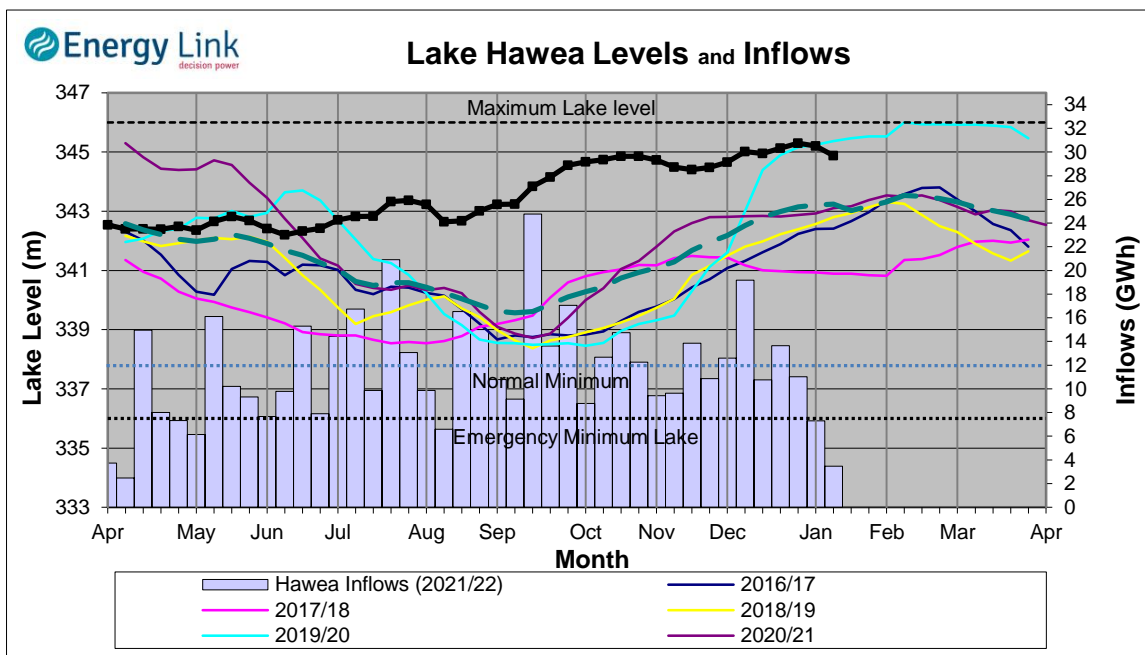
Inflows - Inflows into the Waitaki System decreased 21.6% to 82 GWh.

Generation - Average Waikati generation increased 31.3% to 1161.2 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 16.8 cumecs while Waitaki River flows were higher than last week averaging 487.2 cumecs.

Clutha System



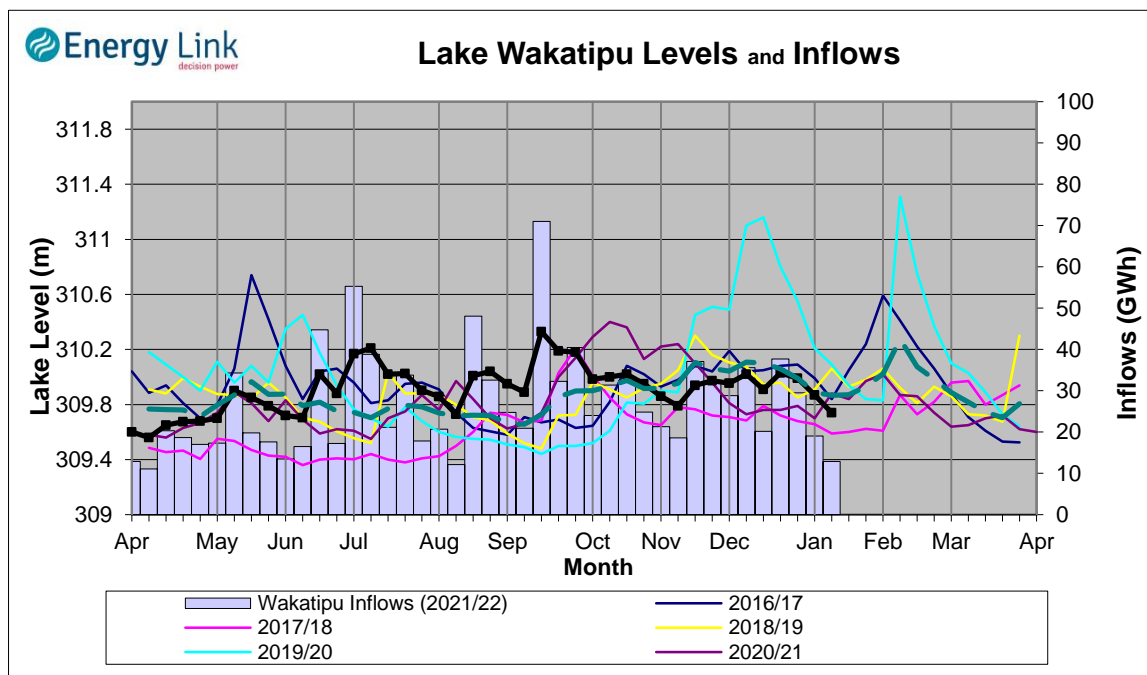
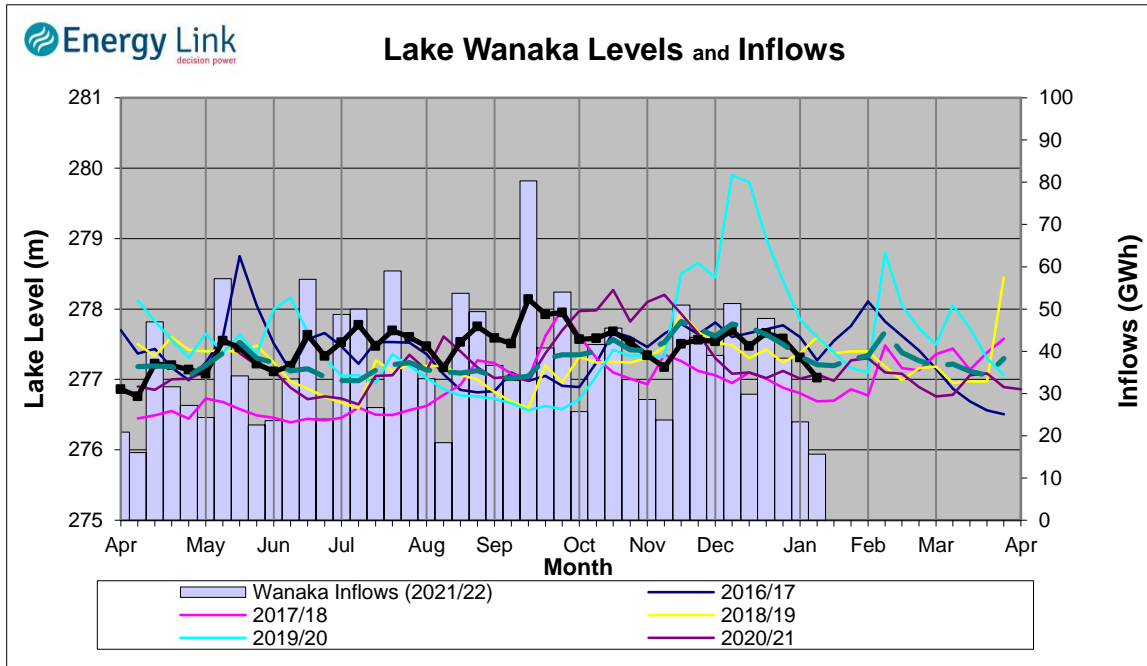
Lake Levels - Total storage for the Clutha System decreased 9.7% to 337 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 85.6%, 41% and 35% nominally full respectively.

Inflows - Total Inflows into the Clutha System 35.7% lower at 32 GWh.

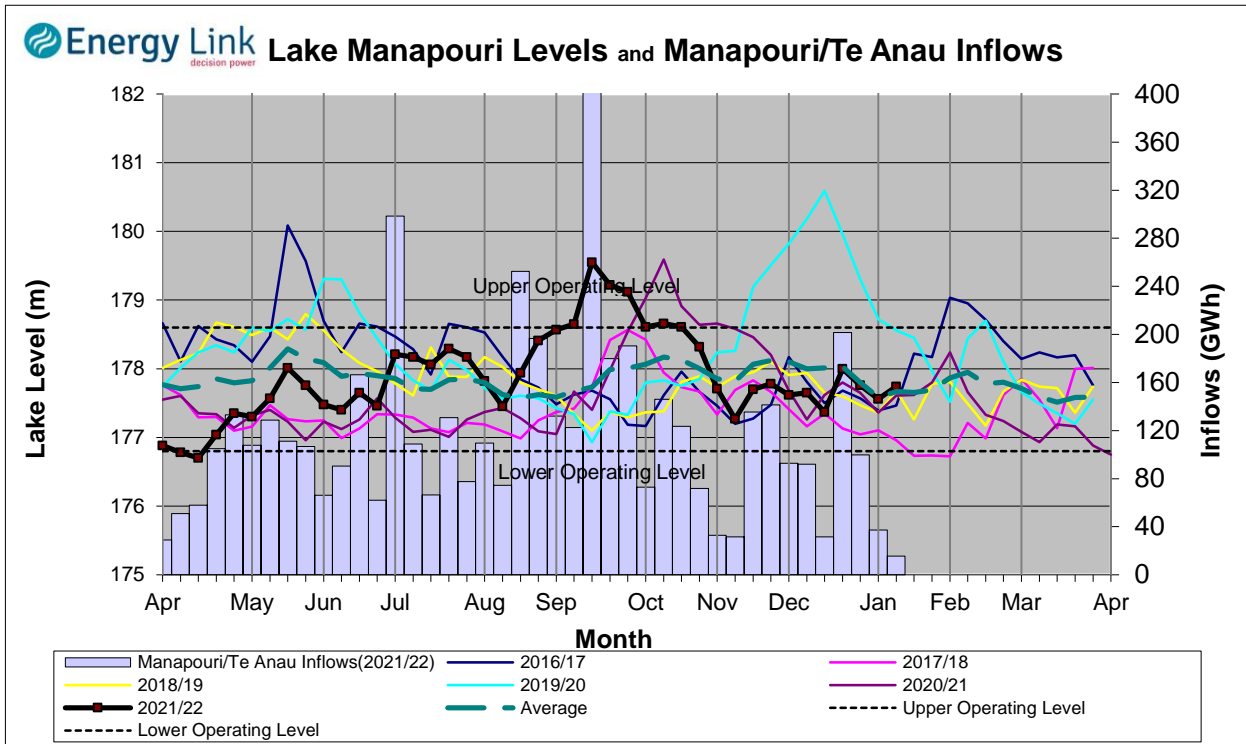
Generation - Average generation was 10.2% lower at 430 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 466.3 cumecs. This comprised of 100 cumecs from Lake Hawea, 191 cumecs from Lake Wanaka, 145 cumecs from Lake Wakatipu and 30 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 15% to 237 GWh with Lake Manapouri ending the week 68.3% nominally full and Lake Te Anau ending the week 45.7% nominally full.

Inflows - Total inflows into the Manapouri System decreased 58% to 16 GWh.

Generation - Average generation was 41% lower at 341 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 34.1 cumecs.

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

