



Thursday, 30 December 2021

Issue: 1289

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)	2791	469	3260	511	3771
Storage Change (GWh)	110	-23	87	5	92

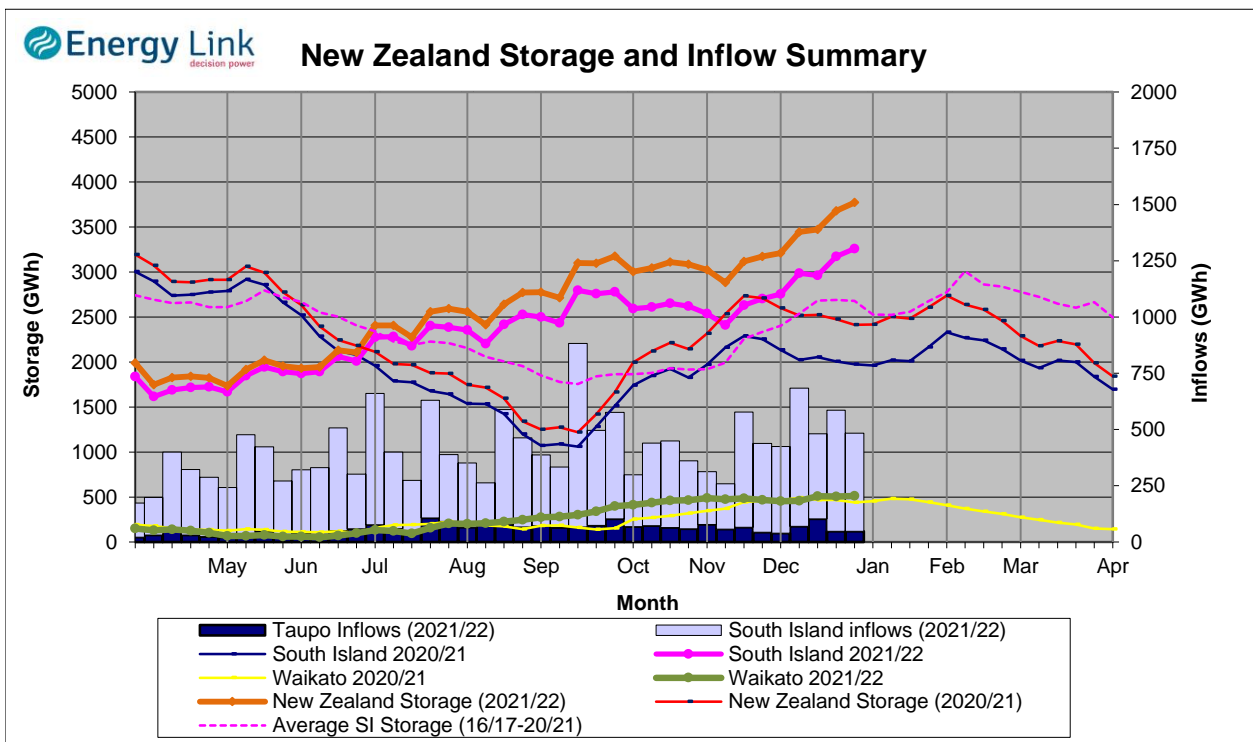
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	3129	511	3641

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 92.2 GWh over the last week. South Island controlled storage increased 4.1% to 2791 GWh; South Island uncontrolled storage decreased 4.6% to 469 GWh; with Taupo storage increasing 1% to 511 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	338	399	2522	511	3771
Last Week	354	400	2419	506	3679
% Change	-4.5%	-0.1%	4.3%	1.0%	2.5%
Inflow (GWh)					
This Week	100	79	257	48	484
Last Week	201	99	238	47	586
% Change	-50.5%	-20.4%	8.0%	1.7%	-17.4%

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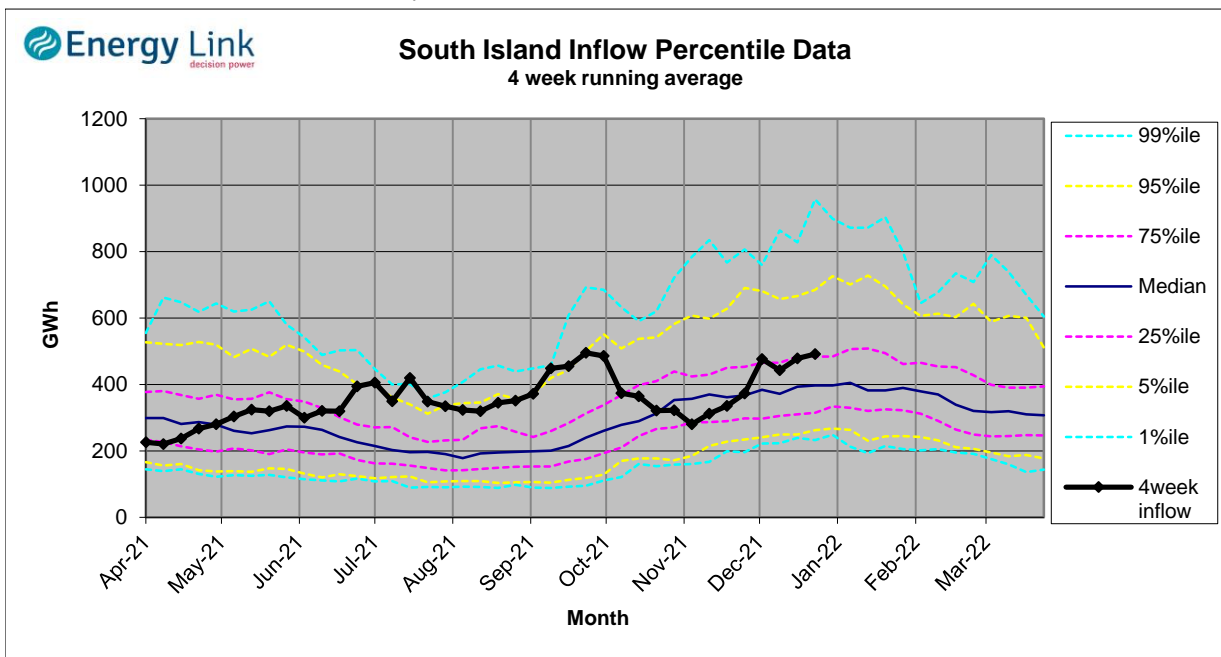
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.76	112	22	1
	Te Anau	202.37	226		
Clutha	Wakatipu	309.99	56	208	25
	Wanaka	277.58	75	272	
	Hawea	345.30	269	29	
Waitaki	Tekapo	710.03	804		
	Pukaki	531.56	1718		
Waikato	Taupo	357.10	511		-15

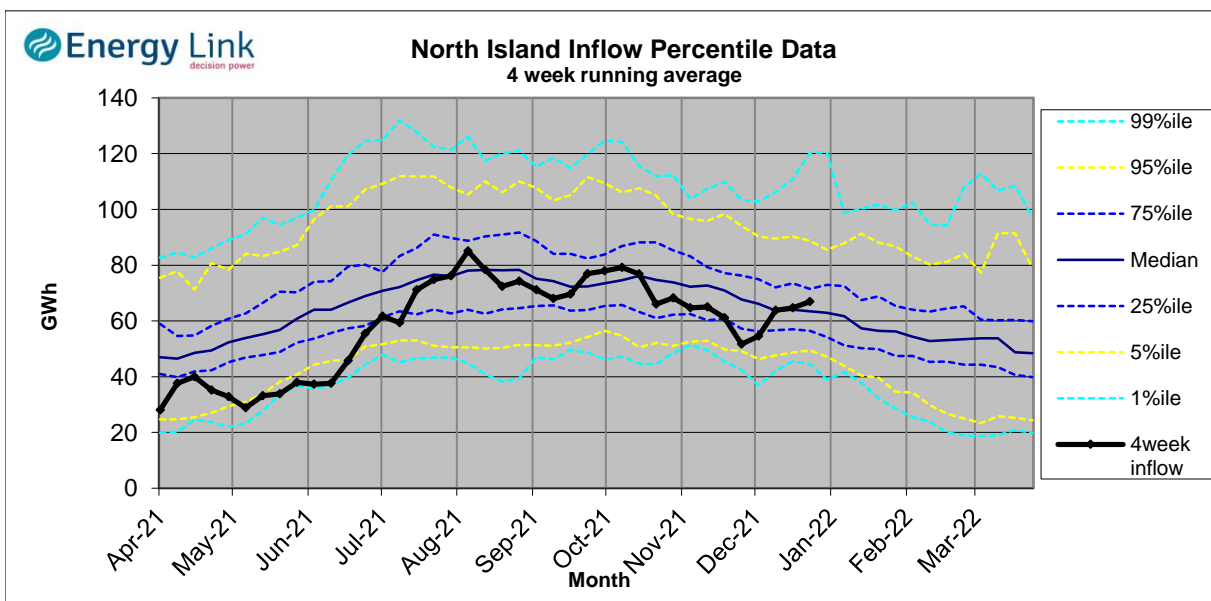
Inflow Summary

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.

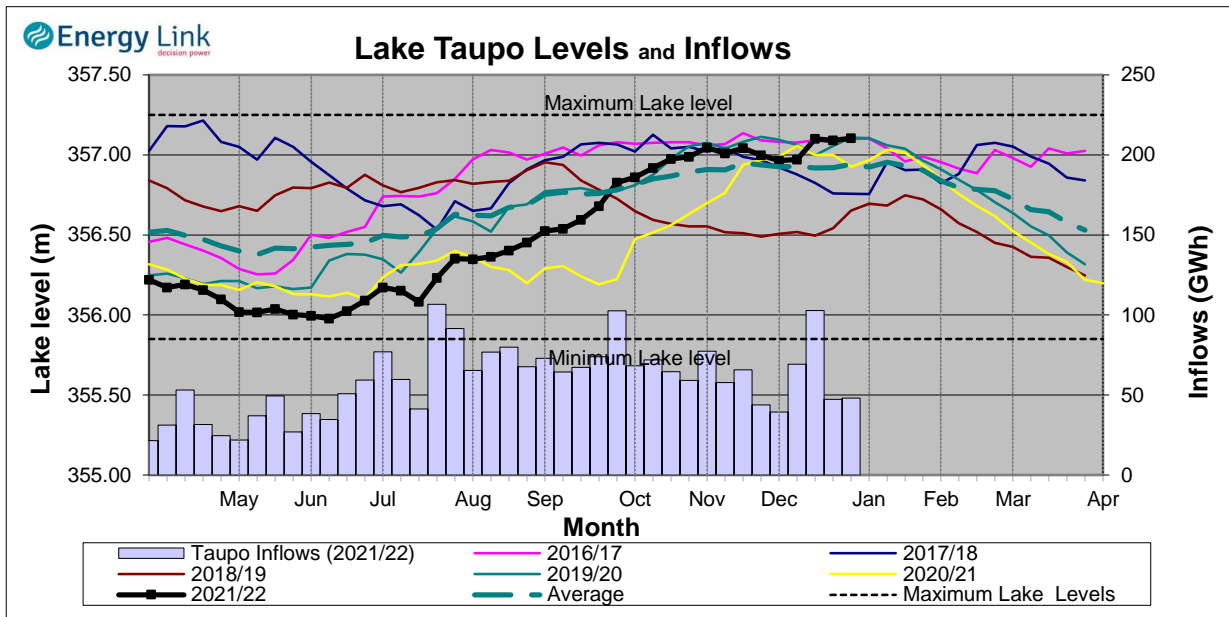
South Island Inflows - The past four weeks of S. I. inflows rank as the 21st wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 38th wettest on record.



Waikato System

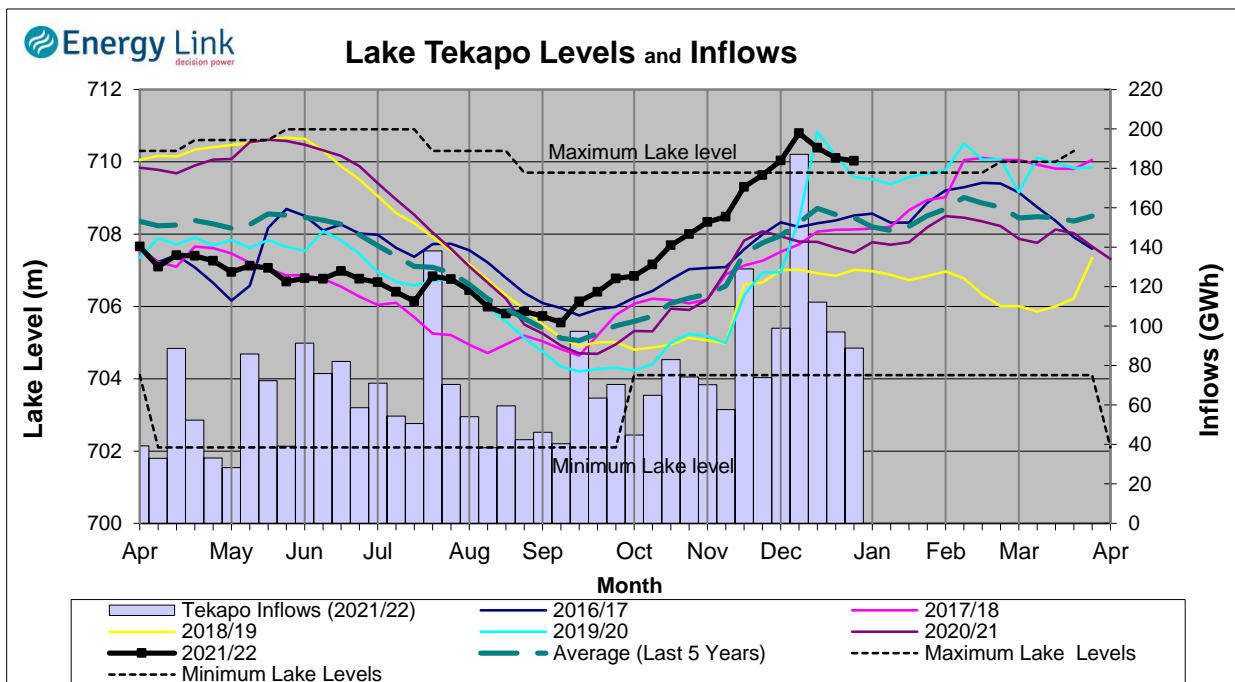


Lake Levels - Lake Taupo storage increased to 89.6% of nominal full at 511 GWh.

Inflows - Inflows increased 1.7% to 48 GWh.

Generation - Average generation decreased 17.1% to 333.9 MW.

Tekapo



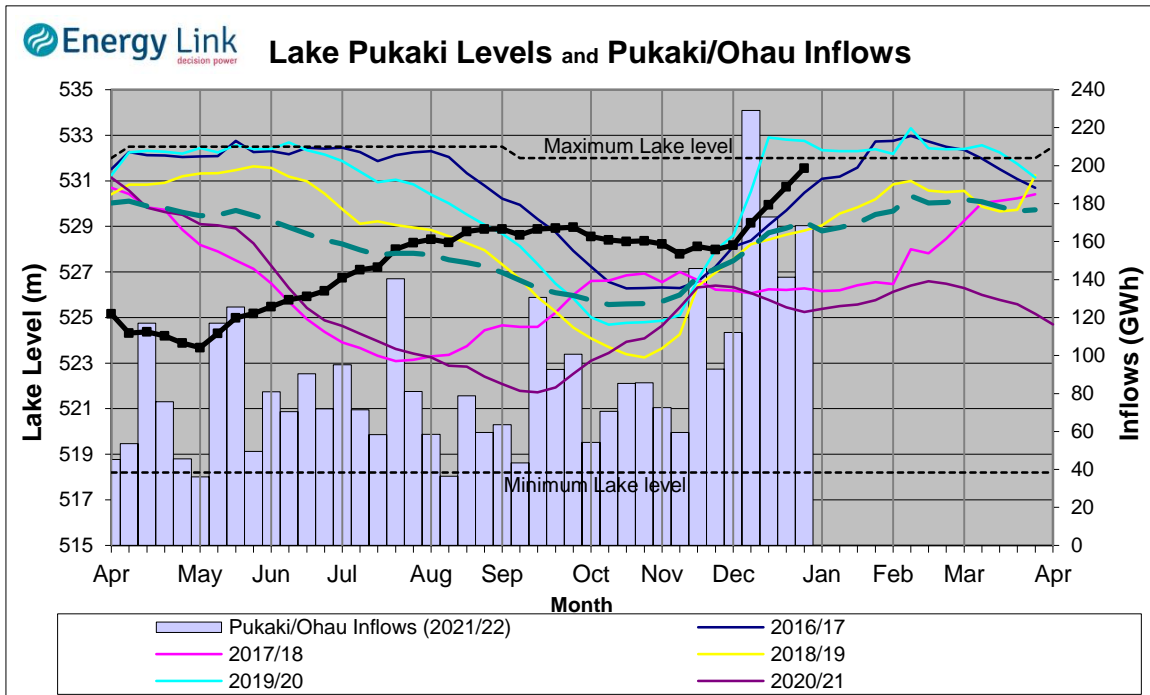
Lake Levels - Lake Tekapo ended the week 111% nominally full with storage falling to 804 GWh.

Inflows - Inflows into tekapo decreased 8.5% to 89 GWh.

Generation - Average Tekapo generation increased 0.3% to 89.8 MW.

Hydro Spill - Lake Tekapo spill was 82.9 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 97% nominally full with storage increasing to 1718 GW

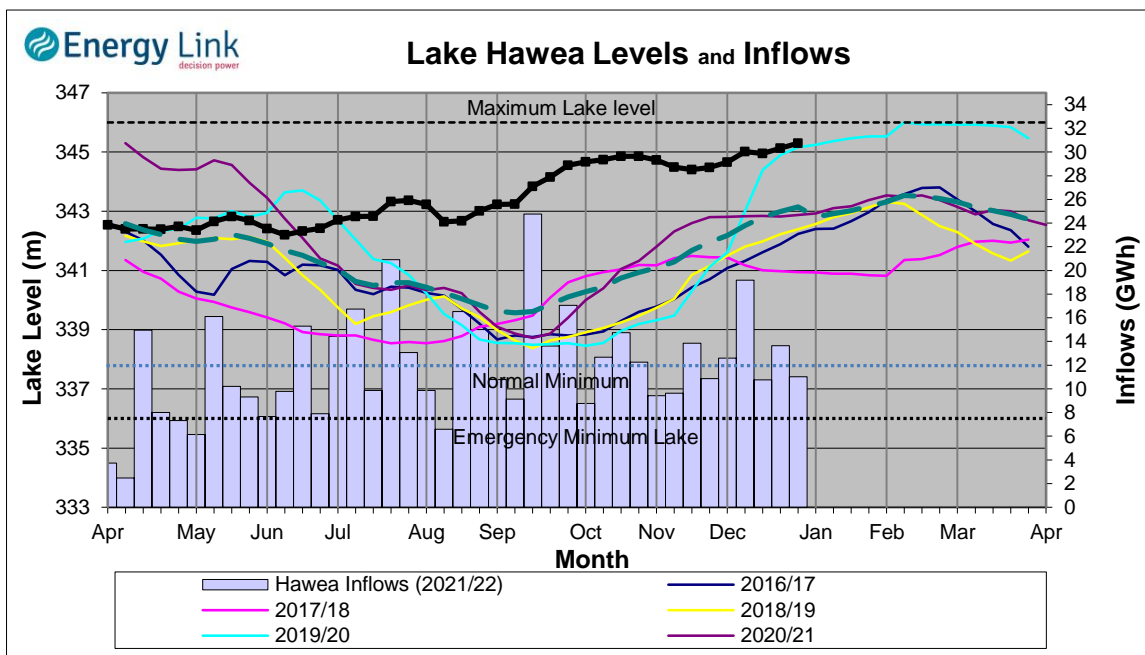
Inflows - Inflows into the Waitaki System increased 19.3% to 168 GWh.

Generation - Average Waikati generation increased 4.3% to 746 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 32 cumecs while Waitaki River flows were lower than last week averaging 387.7 cumecs.

Clutha System



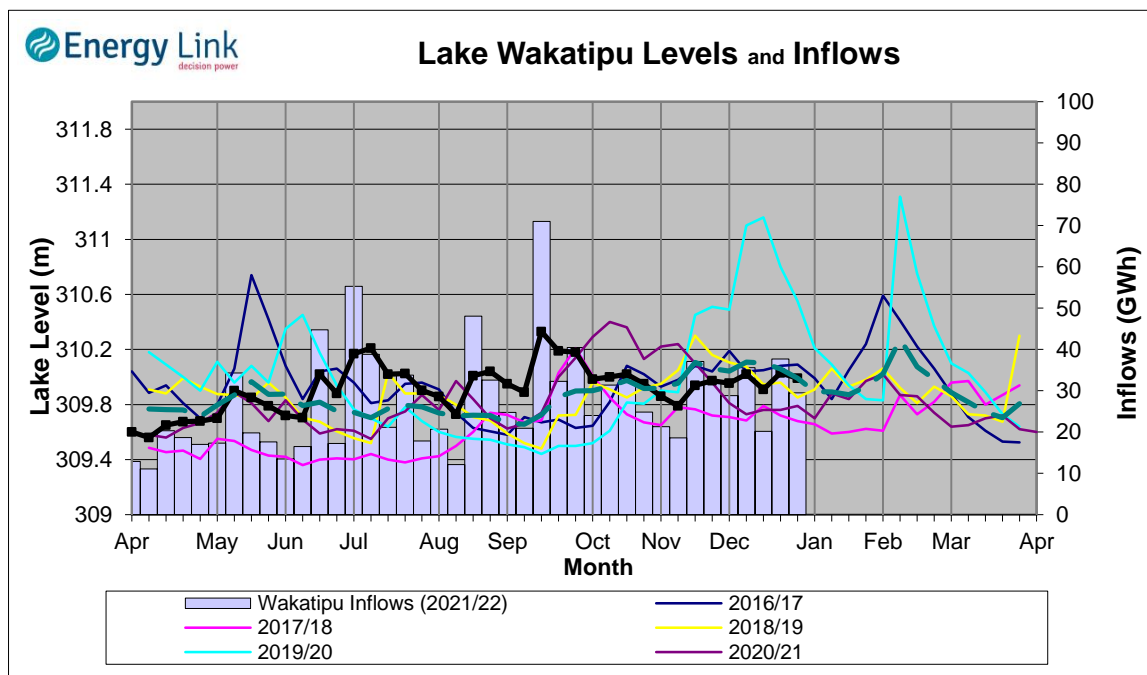
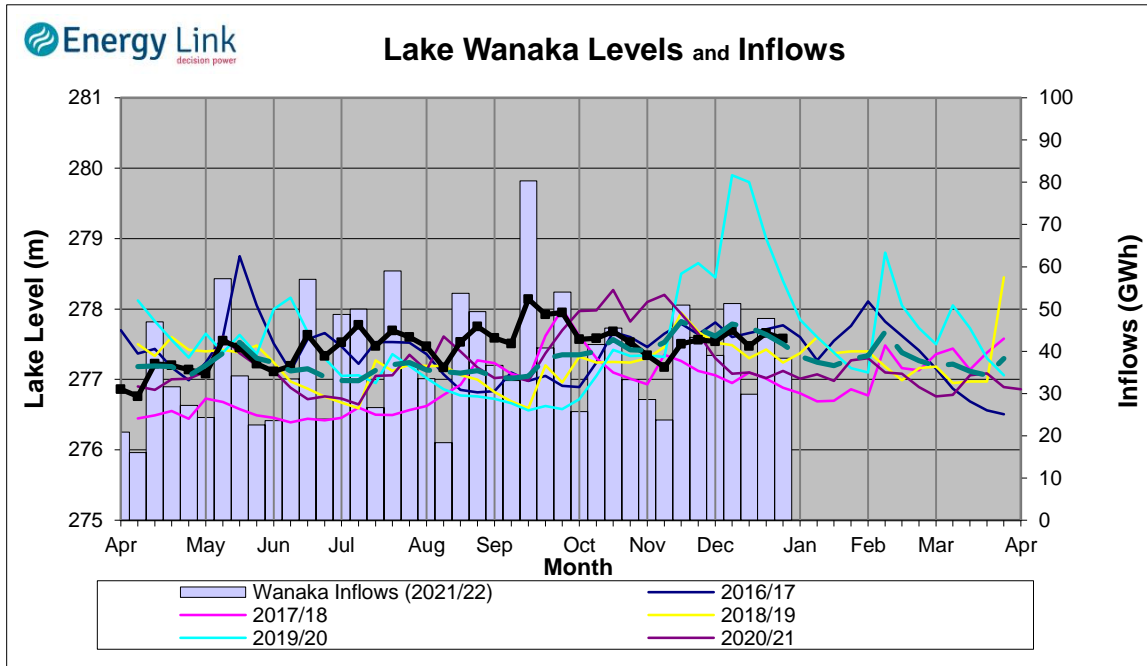
Lake Levels - Total storage for the Clutha System decreased 0.1% to 399 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 91%, 65.1% and 52.9% nominally full respectively.

Inflows - Total Inflows into the Clutha System 20.4% lower at 79 GWh.

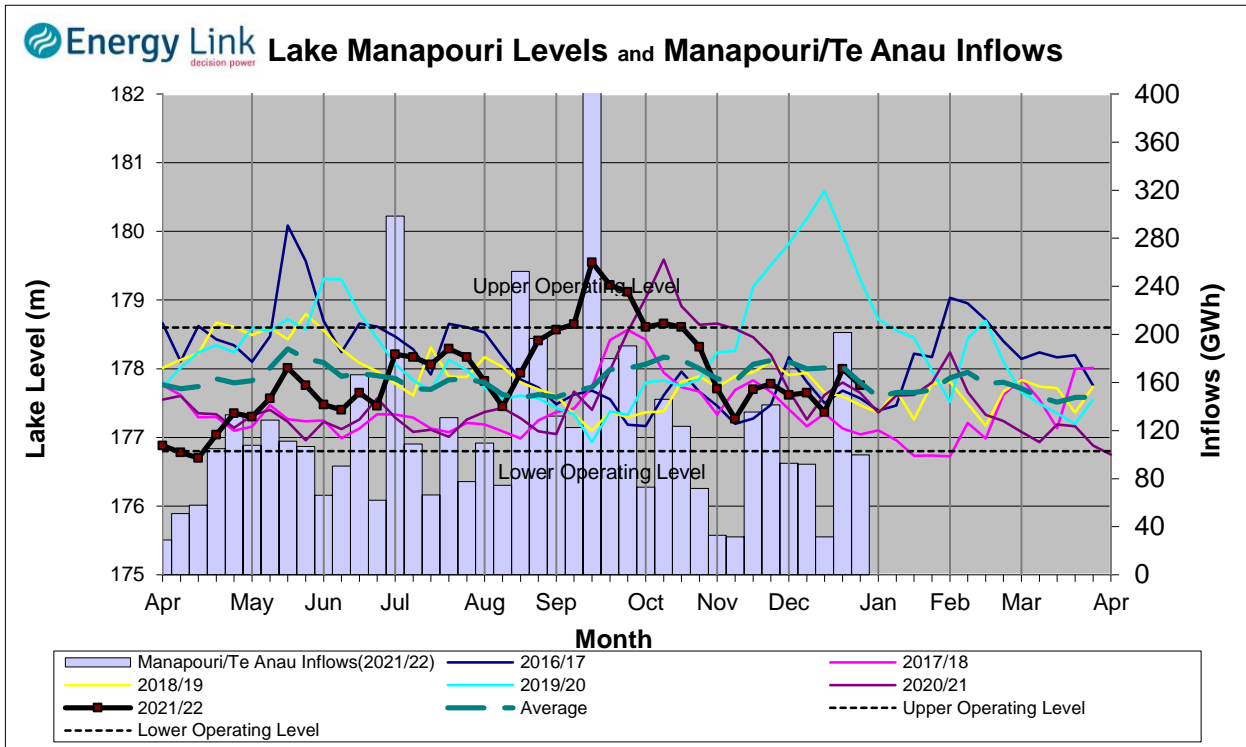
Generation - Average generation was 2.9% higher at 507 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 555.1 cumecs. This comprised of 29 cumecs from Lake Hawea, 272 cumecs from Lake Wanaka, 208 cumecs from Lake Wakatipu and 46 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 4.5% to 338 GWh with Lake Manapouri ending the week 69.1% nominally full and Lake Te Anau ending the week 82.1% nominally full.

Inflows - Total inflows into the Manapouri System decreased 50.5% to 100 GWh.

Generation - Average generation was 25.3% higher at 688 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 21.6 cumecs.

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

