



HydroWatch

Thursday, 06 January 2022
Issue: 1290
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)	2785	386	3171	497	3669
Storage Change (GWh)	-6	-82	-88	-14	-103

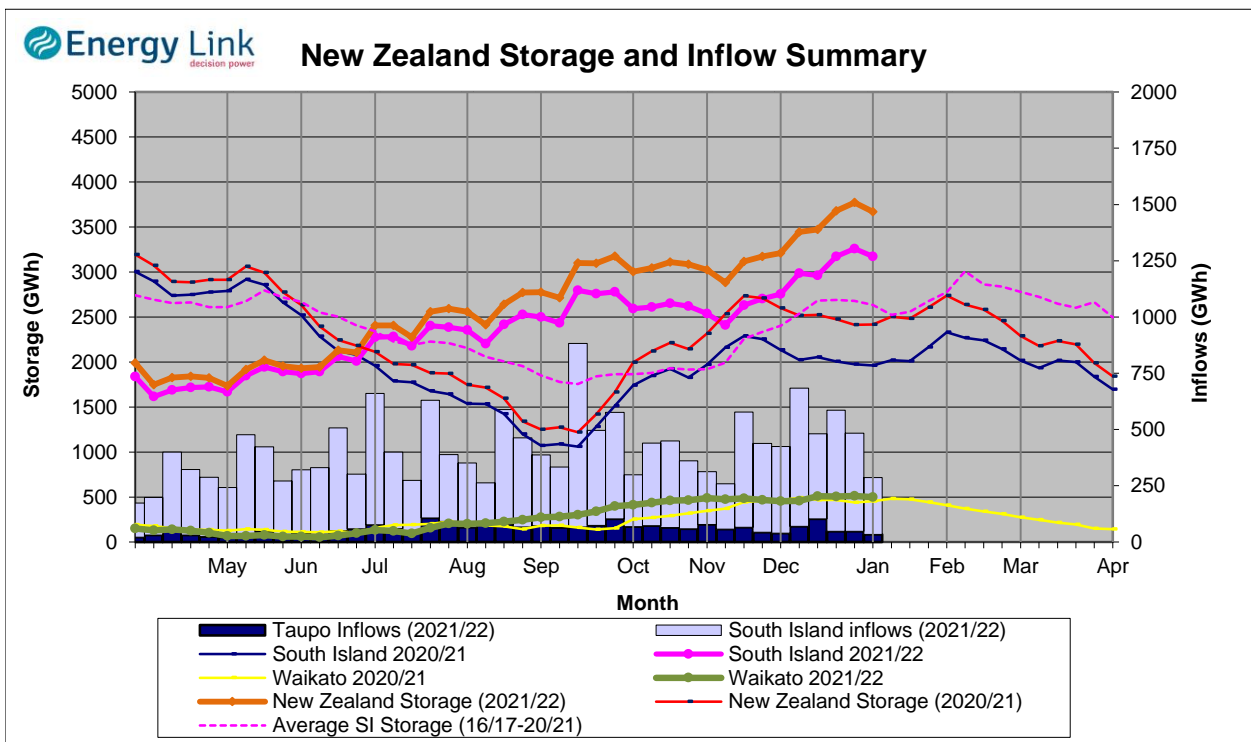
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply Current Storage (GWh)	South Island	North Island	New Zealand
	3063	497	3561

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 102.6 GWh over the last week. South Island controlled storage decreased 0.2% to 2785 GWh; South Island uncontrolled storage decreased 17.6% to 386 GWh; with Taupo storage decreasing 2.8% to 497 GWh.



Thursday, 06 January 2022					
Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	278	373	2520	497	3669
Last Week	338	399	2522	511	3771
% Change	-17.7%	-6.6%	-0.1%	-2.8%	-2.7%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	37	50	165	34	287
Last Week	100	79	257	48	484
% Change	-62.6%	-37.1%	-35.8%	-28.5%	-40.8%

 Subscribe at www.energylink.co.nz/publications

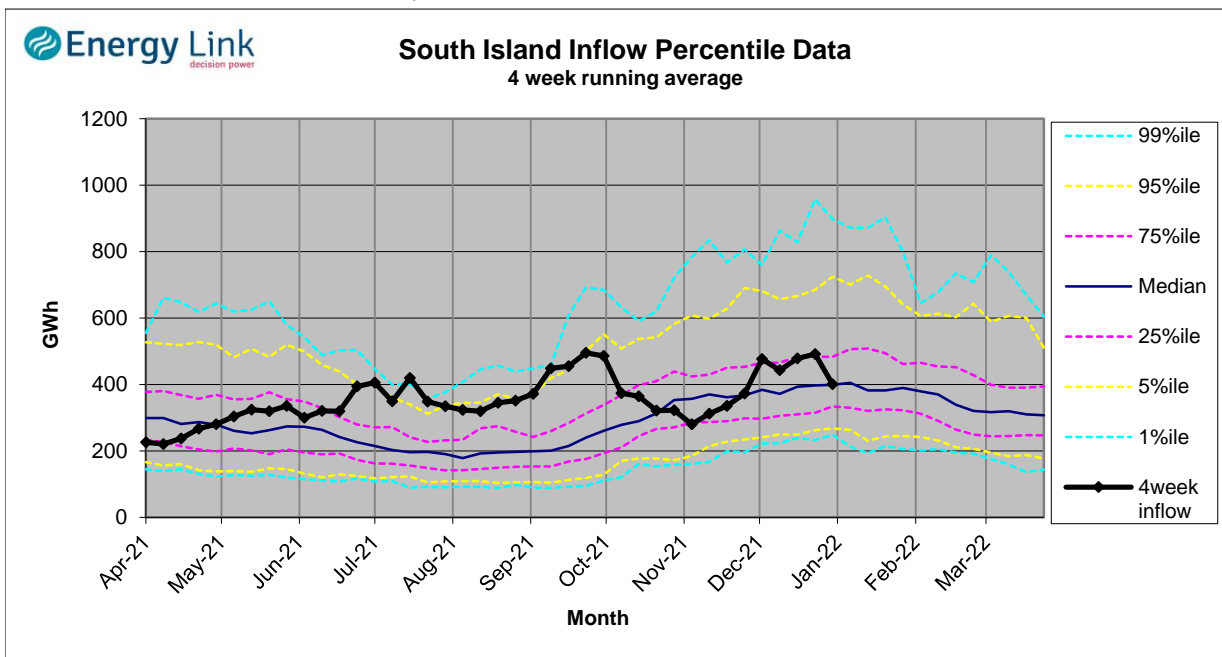
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.56	100	17	-5
	Te Anau	202.05	178		
Clutha	Wakatipu	309.87	47	180	-28
	Wanaka	277.31	61	235	
	Hawea	345.20	265	71	
Waitaki	Tekapo	709.92	792		
	Pukaki	531.63	1728		
Waikato	Taupo	357.07	497		42

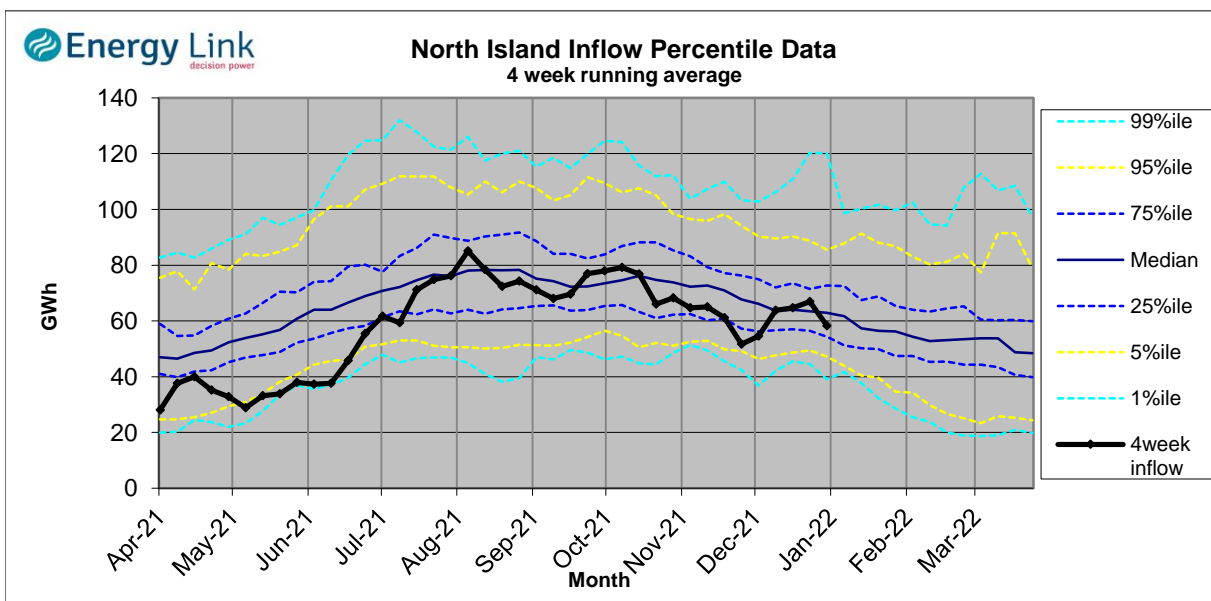
Inflow Summary

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.

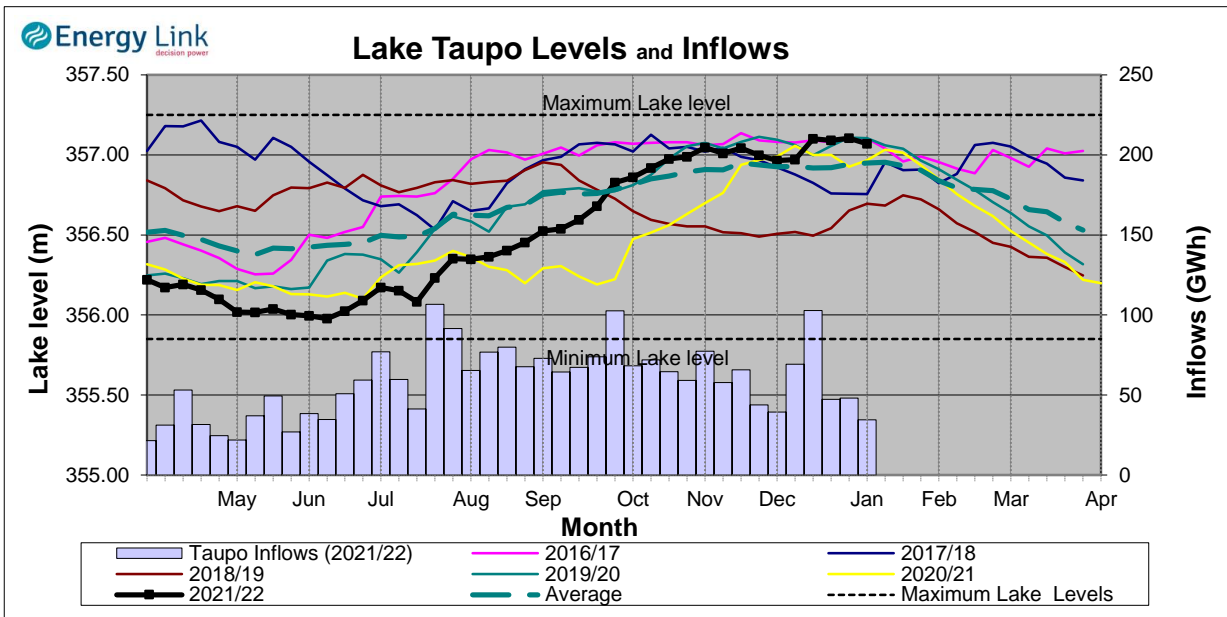
South Island Inflows - The past four weeks of S. I. inflows rank as the 45th wettest on record.



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



Waikato System

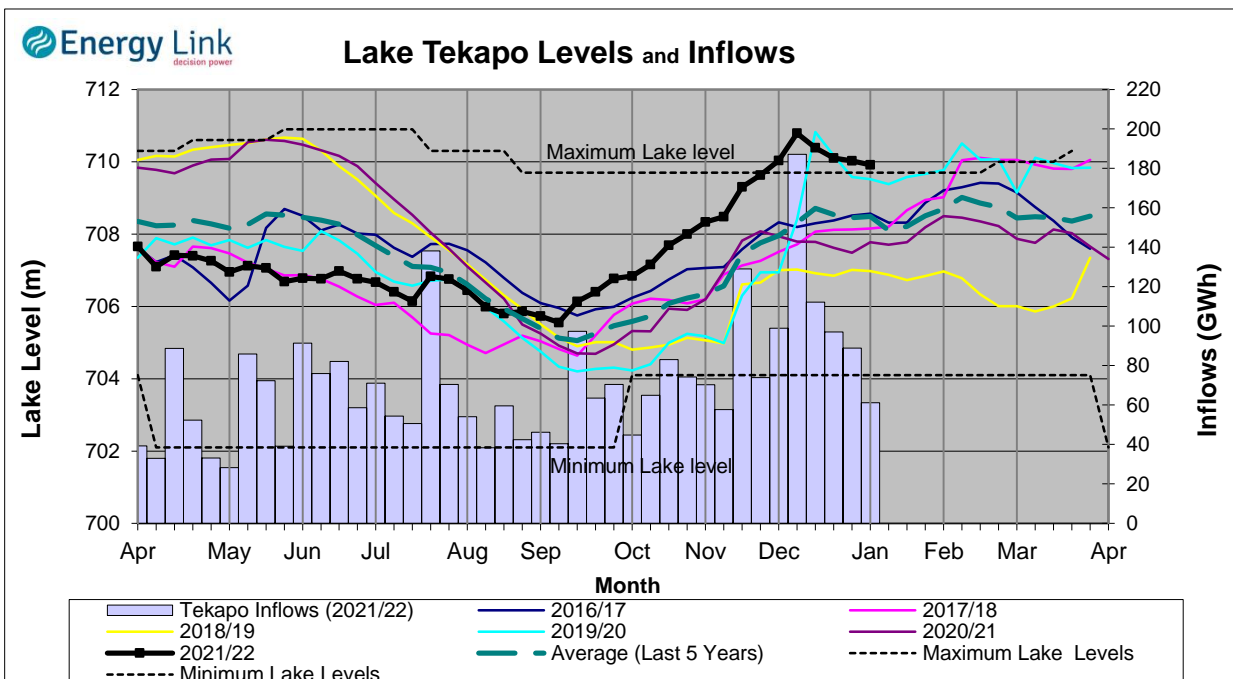


Lake Levels - Lake Taupo storage fell to 87.1% of nominal full at 497 GWh.

Inflows - Inflows decreased 28.5% to 34 GWh.

Generation - Average generation decreased 3.3% to 322.8 MW.

Tekapo



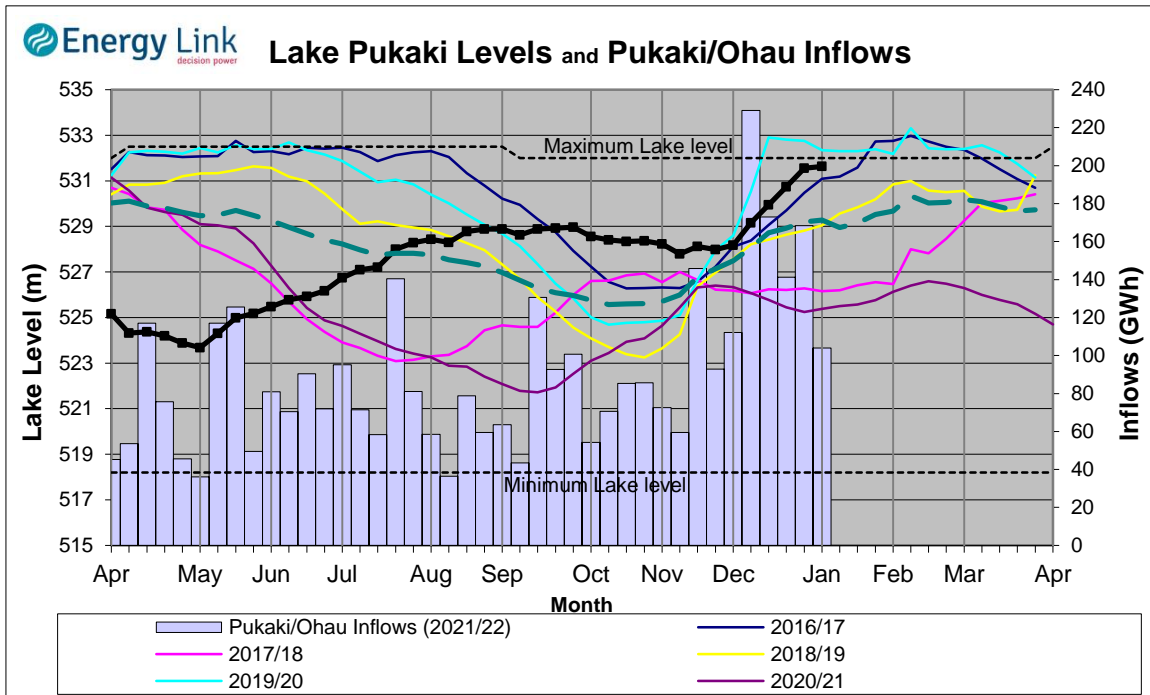
Lake Levels - Lake Tekapo ended the week 109% nominally full with storage falling to 792 GWh.

Inflows - Inflows into tekapo decreased 31.2% to 61 GWh.

Generation - Average Tekapo generation remained steady at 89.8 MW.

Hydro Spill - Lake Tekapo spill was 46.7 cumecs.

Waitaki System



Lake Levels - Lake Pukaki ended the week 97% nominally full with storage increasing to 1728 GW

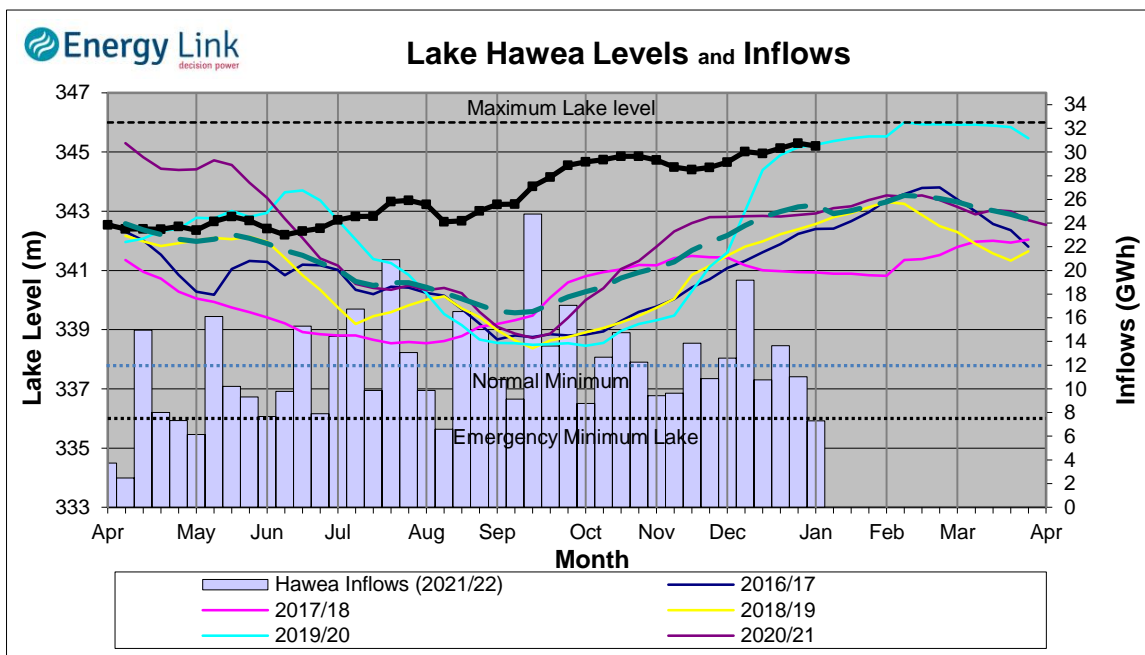
Inflows - Inflows into the Waitaki System decreased 38.2% to 104 GWh.

Generation - Average Waikati generation increased 18.5% to 884.3 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 22.7 cumecs while Waitaki River flows were lower than last week averaging 380.8 cumecs.

Clutha System



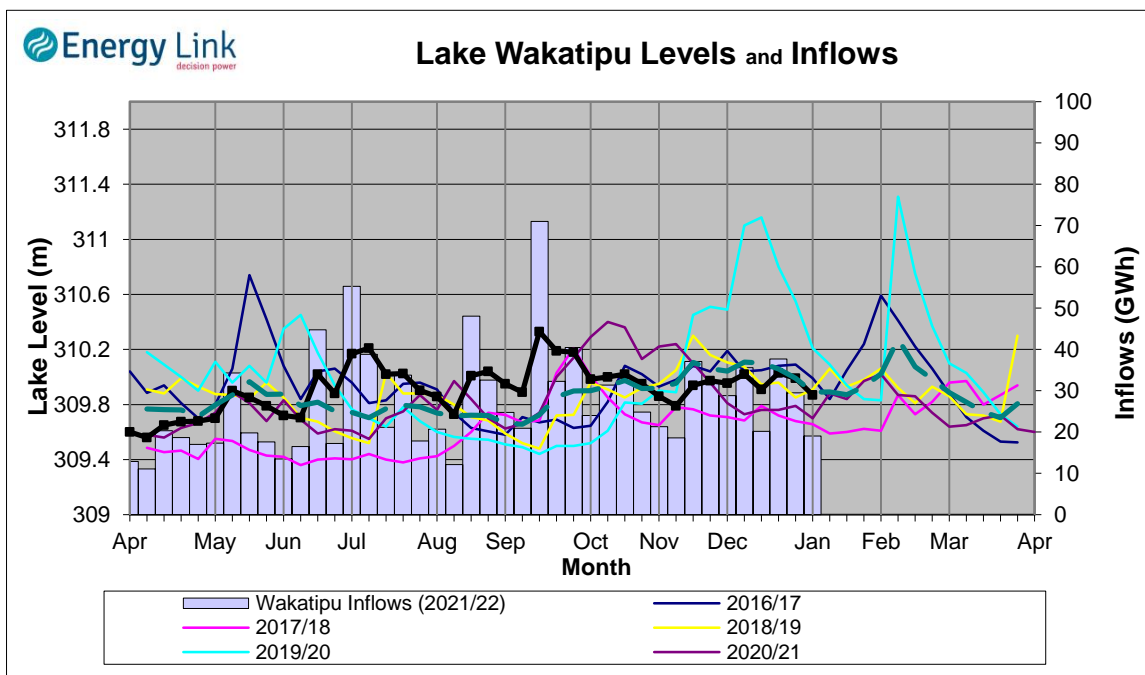
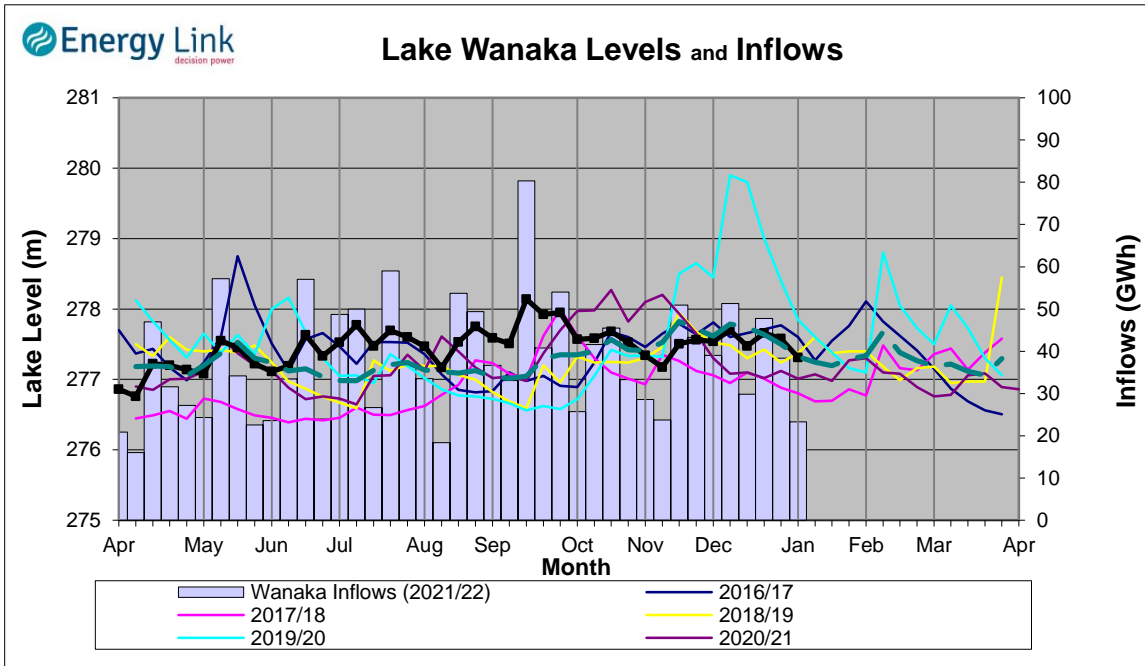
Lake Levels - Total storage for the Clutha System decreased 6.6% to 373 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 89.7%, 53.4% and 44.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 37.1% lower at 50 GWh.

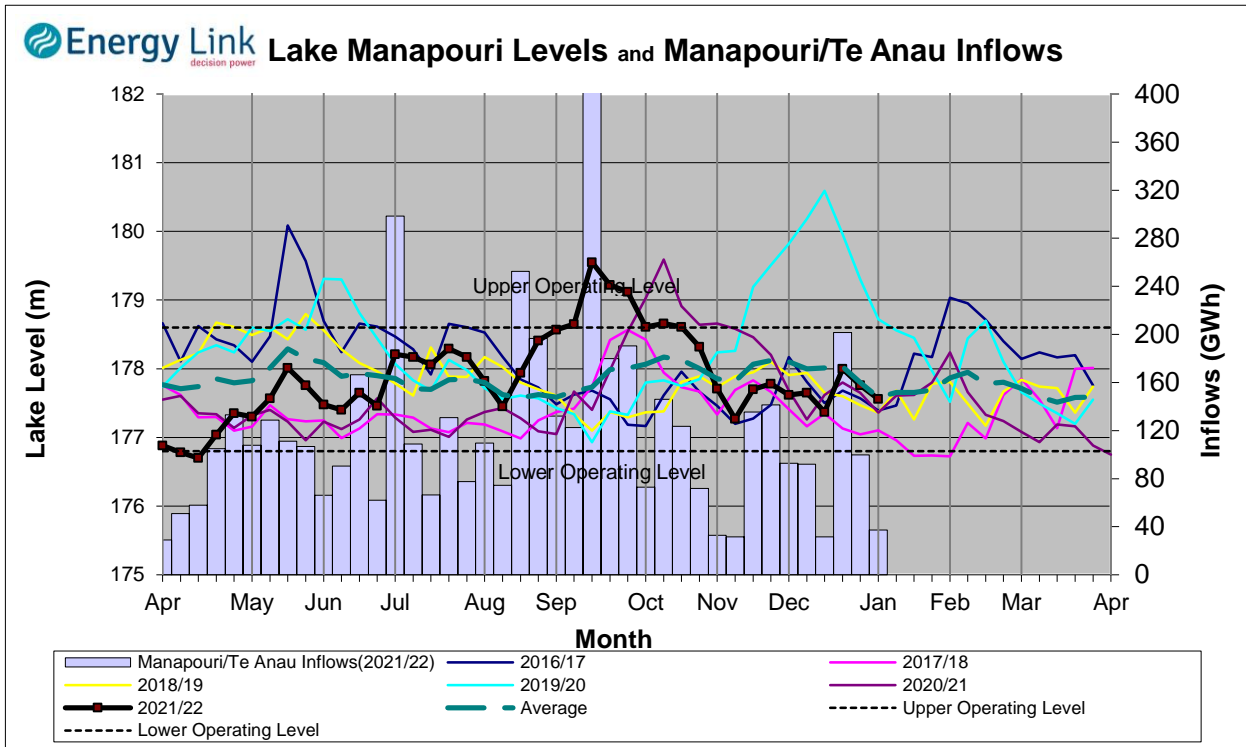
Generation - Average generation was 5.5% lower at 479 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 521.5 cumecs. This comprised of 71 cumecs from Lake Hawea, 235 cumecs from Lake Wanaka, 180 cumecs from Lake Wakatipu and 35 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 17.7% to 278 GWh with Lake Manapouri ending the week 61.8% nominally full and Lake Te Anau ending the week 64.7% nominally full.

Inflows - Total inflows into the Manapouri System decreased 62.6% to 37 GWh.

Generation - Average generation was 15.9% lower at 578 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 16.9 cumecs.

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

