



Thursday, 22 April 2021

Issue: 1253

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)	1424	292	1716	124	1840
Storage Change (GWh)	-24	51	27	-14	13

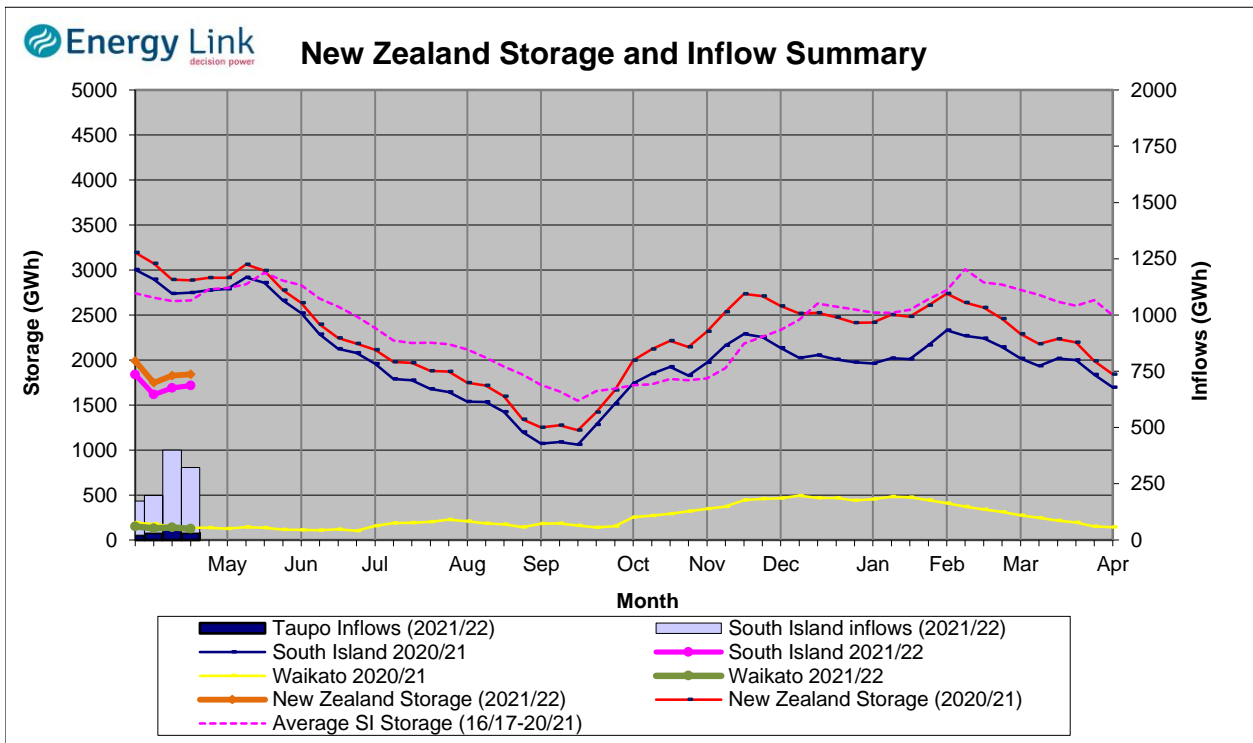
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1628	124	1752

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 12.6 GWh over the last week. South Island controlled storage decreased 1.7% to 1424 GWh; South Island uncontrolled storage increased 21.1% to 292 GWh; with Taupo storage decreasing 10.3% to 124 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	204	248	1264	124	1840
Last Week	154	247	1288	139	1827
% Change	32.5%	0.3%	-1.9%	-10.3%	0.7%
Inflow (GWh)					
This Week	105	58	128	32	323
Last Week	58	82	206	53	399
% Change	81.1%	-29.2%	-37.7%	-40.4%	-19.1%

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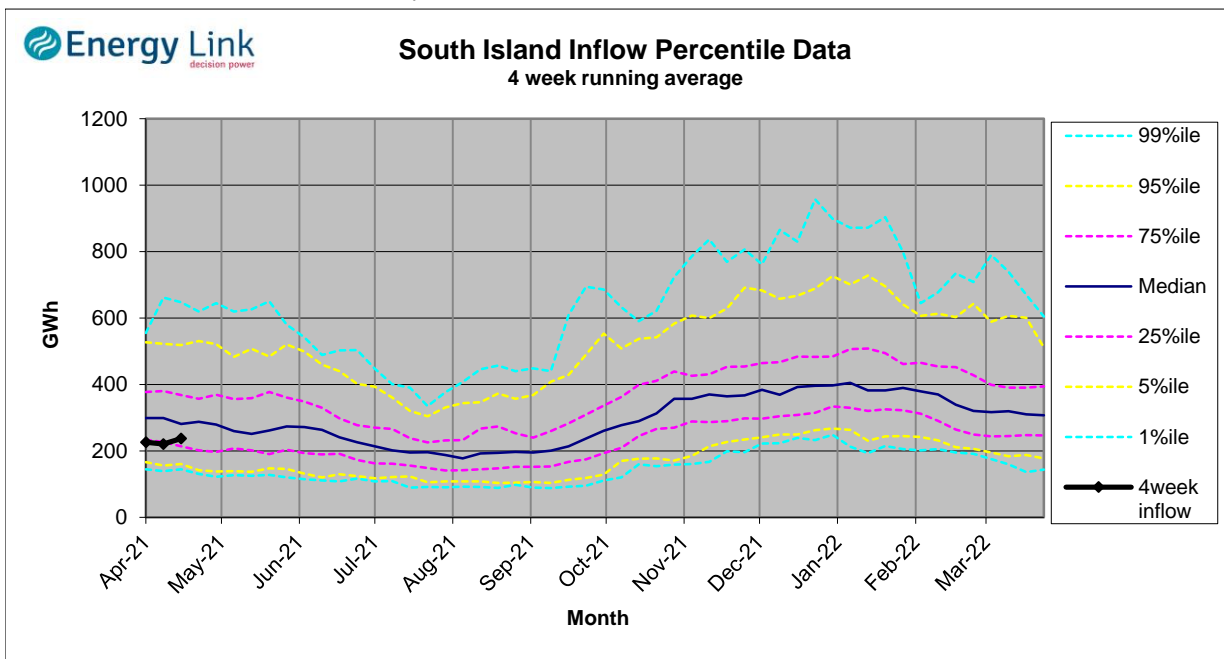
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.04	69	15	-2
	Te Anau	201.76	135		
Clutha	Wakatipu	309.68	32	108	21
	Wanaka	277.20	56	209	
	Hawea	342.40	160	53	
Waitaki	Tekapo	707.40	521		54
	Pukaki	524.20	743		
Waikato	Taupo	356.16	124		-43

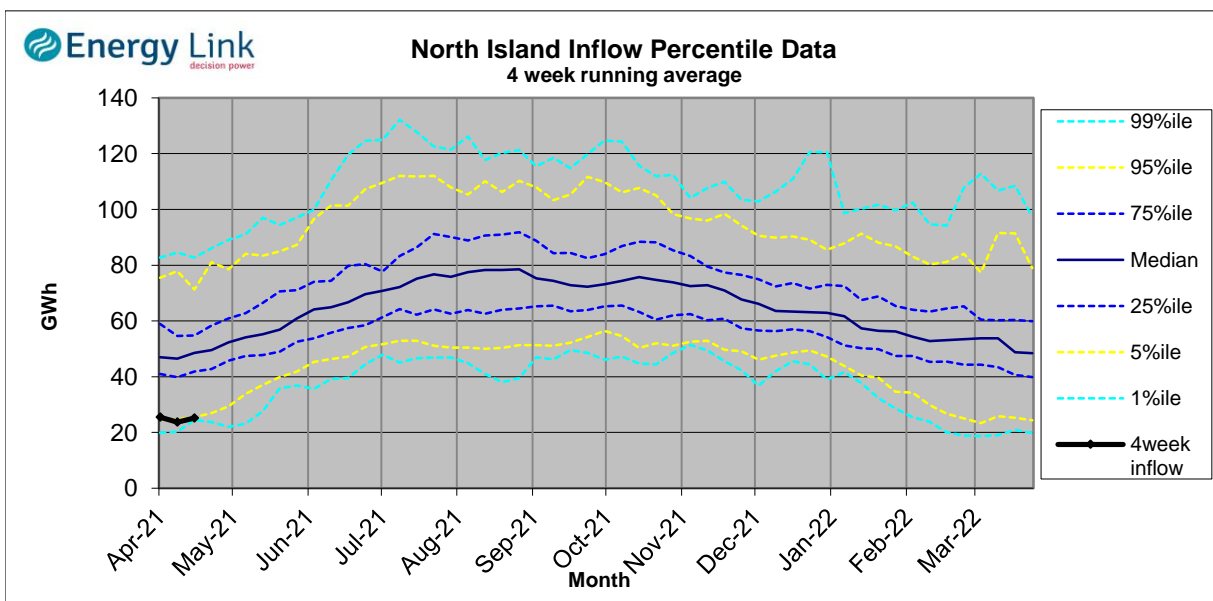
Inflow Summary

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.

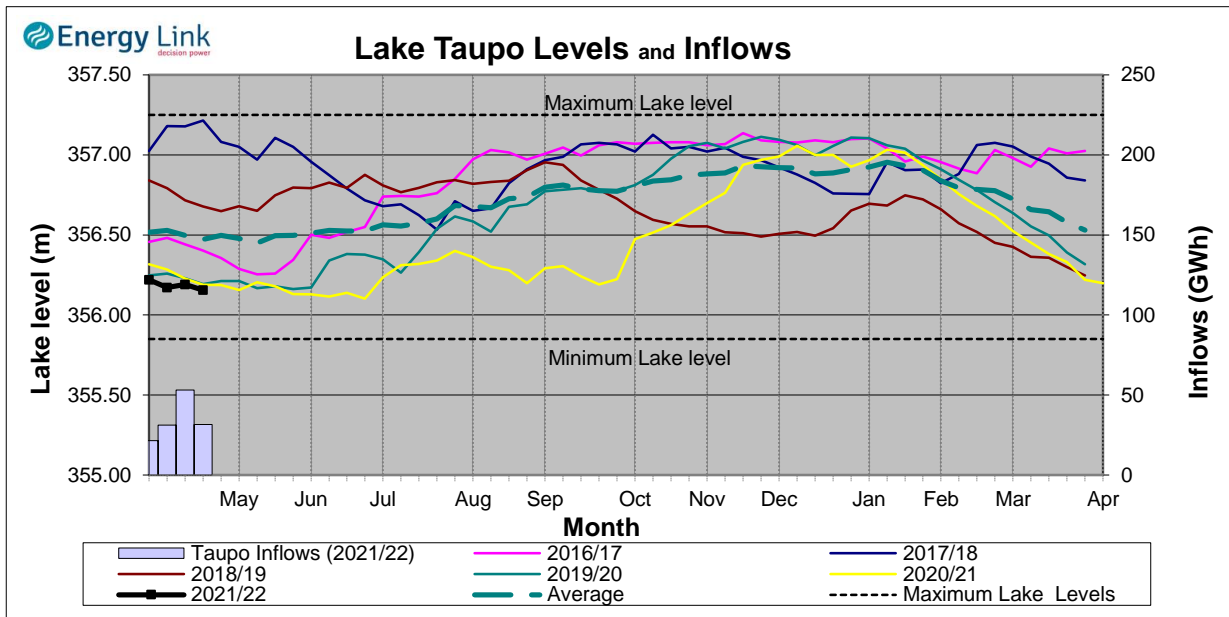
South Island Inflows - The past four weeks of S. I. inflows rank as the 30th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 19th driest on record.



Waikato System

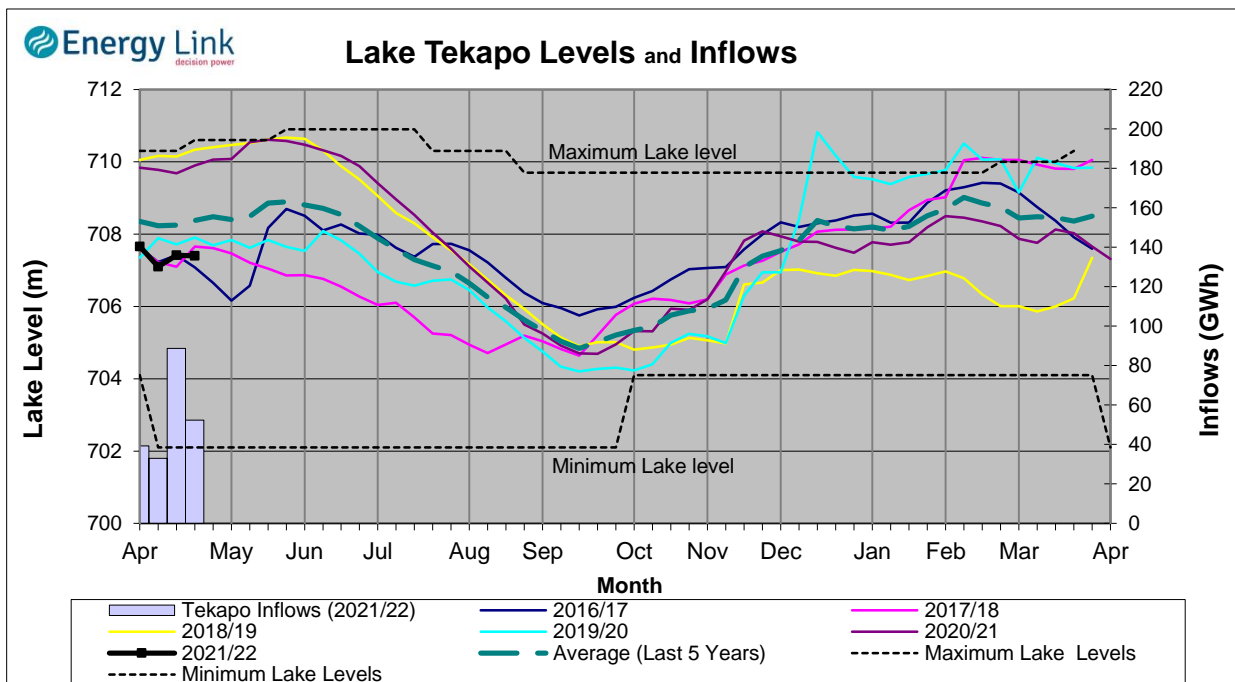


Lake Levels - Lake Taupo storage fell to 21.8% of nominal full at 124 GWh.

Inflows - Inflows decreased 40.4% to 32 GWh.

Generation - Average generation decreased 5.3% to 313.9 MW.

Tekapo



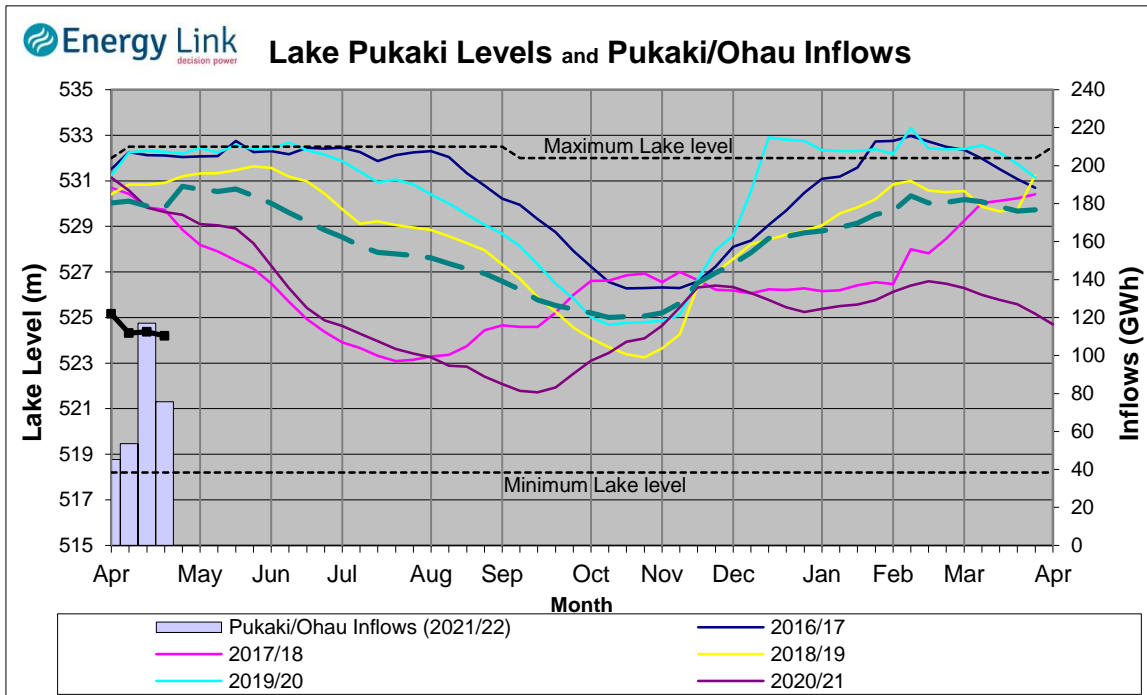
Lake Levels - Lake Tekapo ended the week 66% nominally full with storage falling to 521 GWh.

Inflows - Inflows into tekapo decreased 40.9% to 52 GWh.

Generation - Average Tekapo generation decreased 1.2% to 115.2 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 40% nominally full with storage falling to 743 GWh.

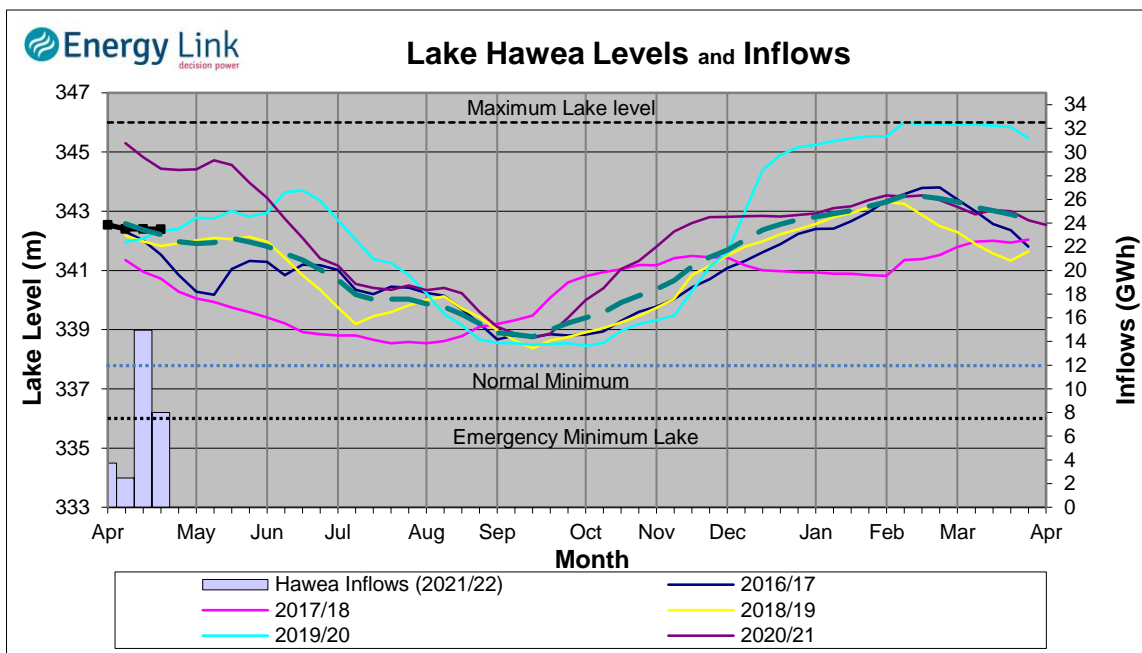
Inflows - Inflows into the Waitaki System decreased 35.3% to 76 GWh.

Generation - Average Waikati generation decreased 12.2% to 844.4 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 18.5 cumecs while Waitaki River flows were lower than last week averaging 325.3 cumecs.

Clutha System



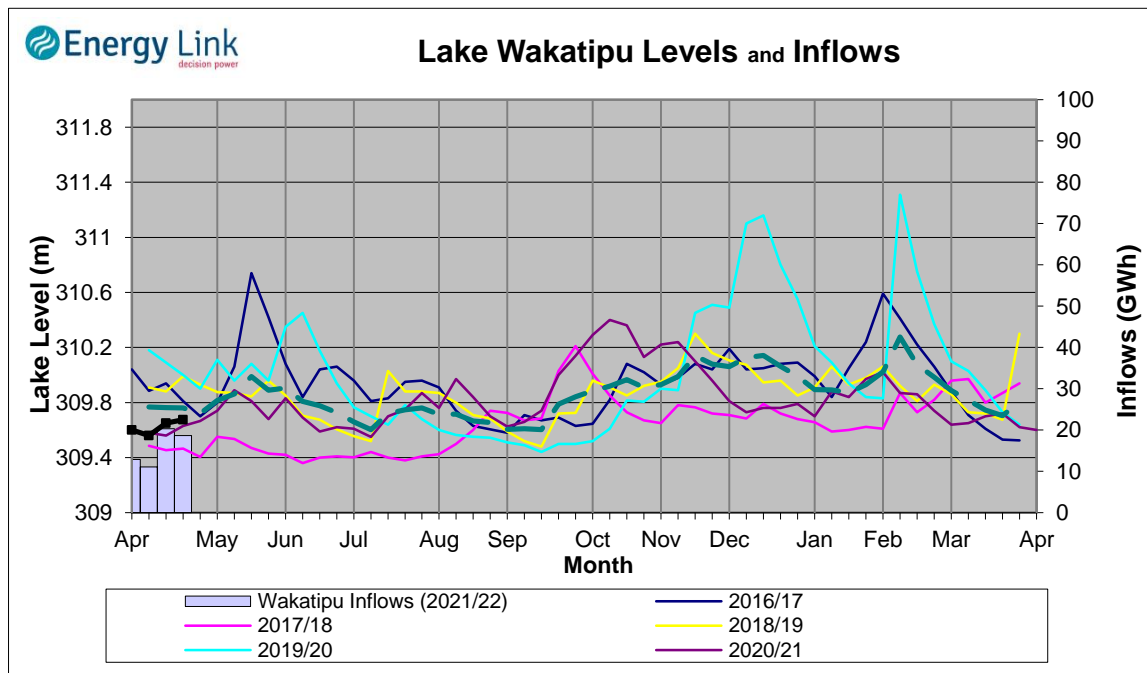
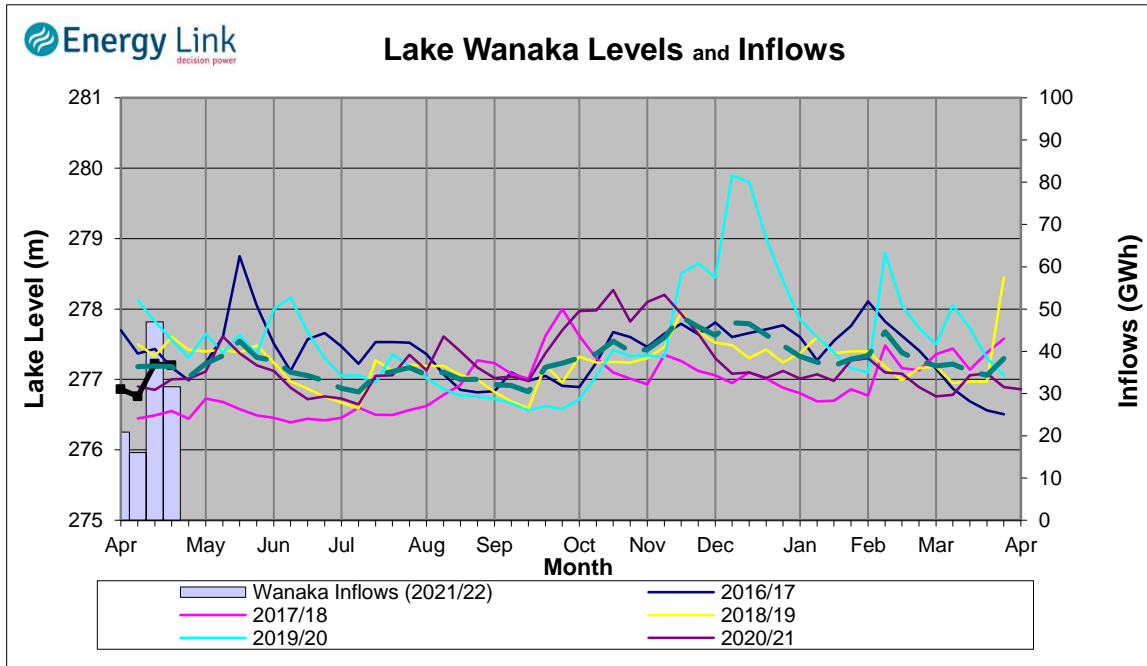
Lake Levels - Total storage for the Clutha System increased by 0.3% to 248 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 54.1%, 48.6% and 30.4% nominally full respectively.

Inflows - Total Inflows into the Clutha System 29.2% lower at 58 GWh.

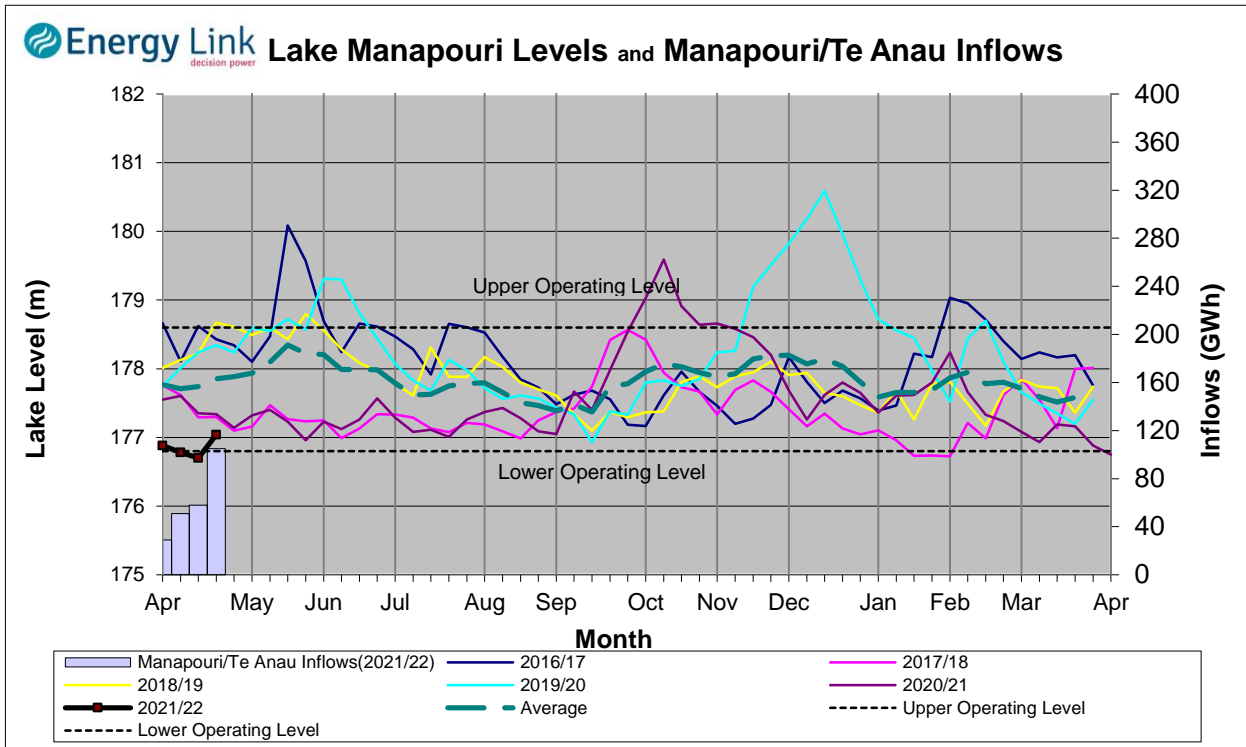
Generation - Average generation was 13.8% higher at 385 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 400.2 cumecs. This comprised of 53 cumecs from Lake Hawea, 209 cumecs from Lake Wanaka, 108 cumecs from Lake Wakatipu and 31 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 32.5% to 204 GWh with Lake Manapouri ending the week 42.8% nominally full and Lake Te Anau ending the week 48.9% nominally full.

Inflows - Total inflows into the Manapouri System increased 81.1% to 105 GWh.

Generation - Average generation was 2.2% higher at 326 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 15.3 cumecs.

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

