



Thursday, 02 March 2023

Issue: 1350

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)	2499	243	2742	519	3261
Storage Change (GWh)	-60	-40	-101	6	-95

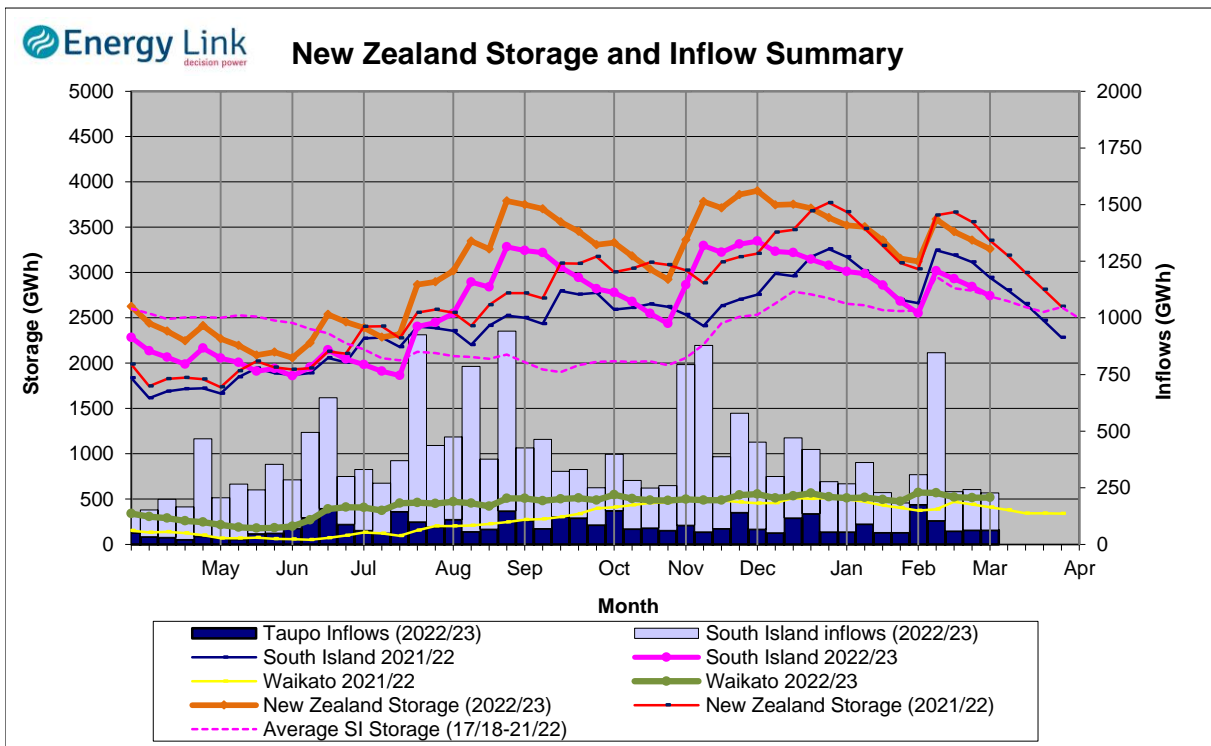
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2673	519	3192

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 95.1 GWh over the last week. South Island controlled storage decreased 2.4% to 2499 GWh; South Island uncontrolled storage decreased 14.3% to 243 GWh; with Taupo storage increasing 1.1% to 519 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	174	285	2283	519	3261
Last Week	197	311	2335	514	3356
% Change	-11.6%	-8.4%	-2.2%	1.1%	-2.8%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	23	31	109	64	228
Last Week	27	44	106	64	242
% Change	-15.3%	-29.1%	2.4%	0.6%	-5.9%

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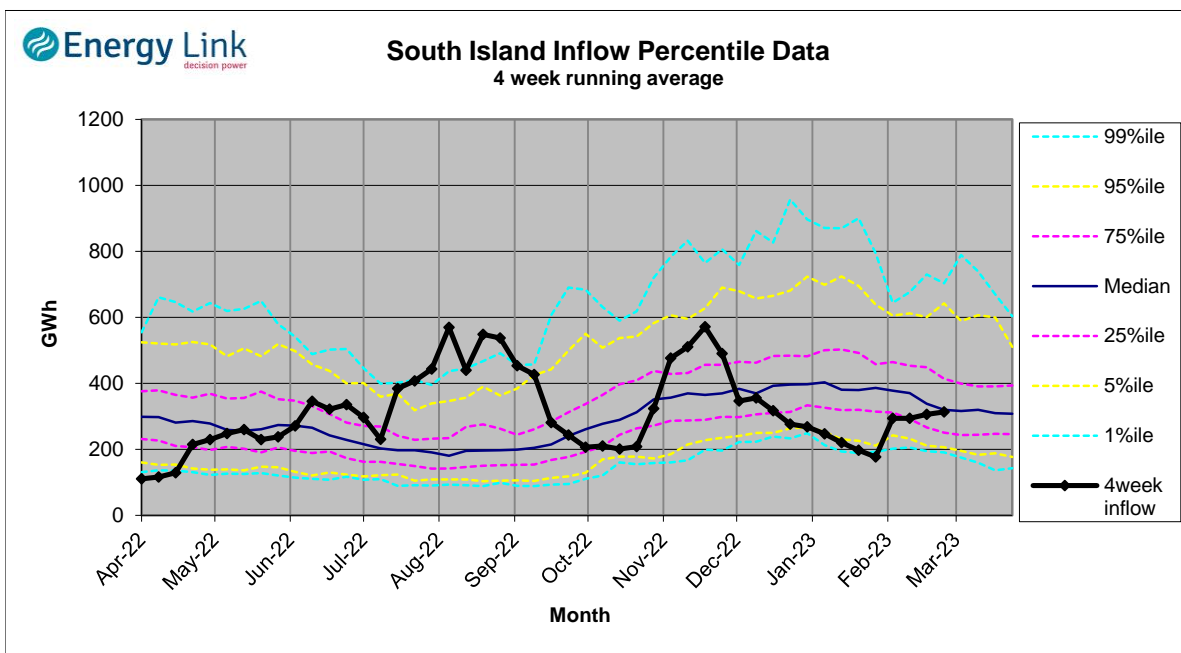
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.14	75	20	2
	Te Anau	201.52	99		
Clutha	Wakatipu	309.63	28	115	-4
	Wanaka	276.90	41	170	-6
	Hawea	343.90	216	84	-52
Waitaki	Tekapo	709.40	735		
	Pukaki	530.31	1548		
Waikato	Taupo	357.12	519		

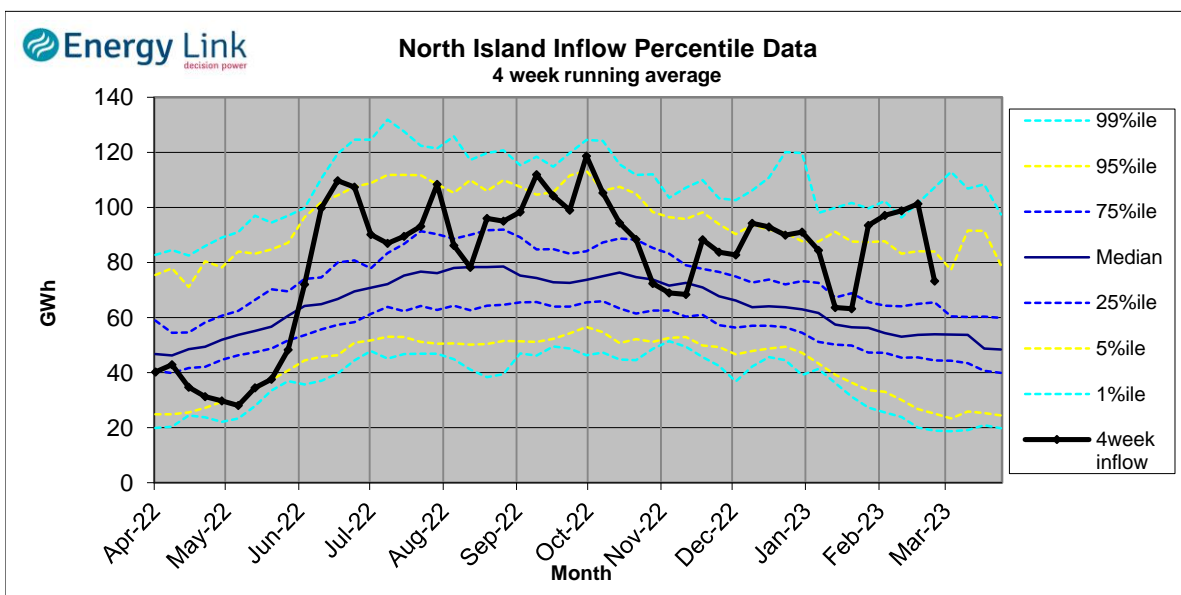
Inflow Summary

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.

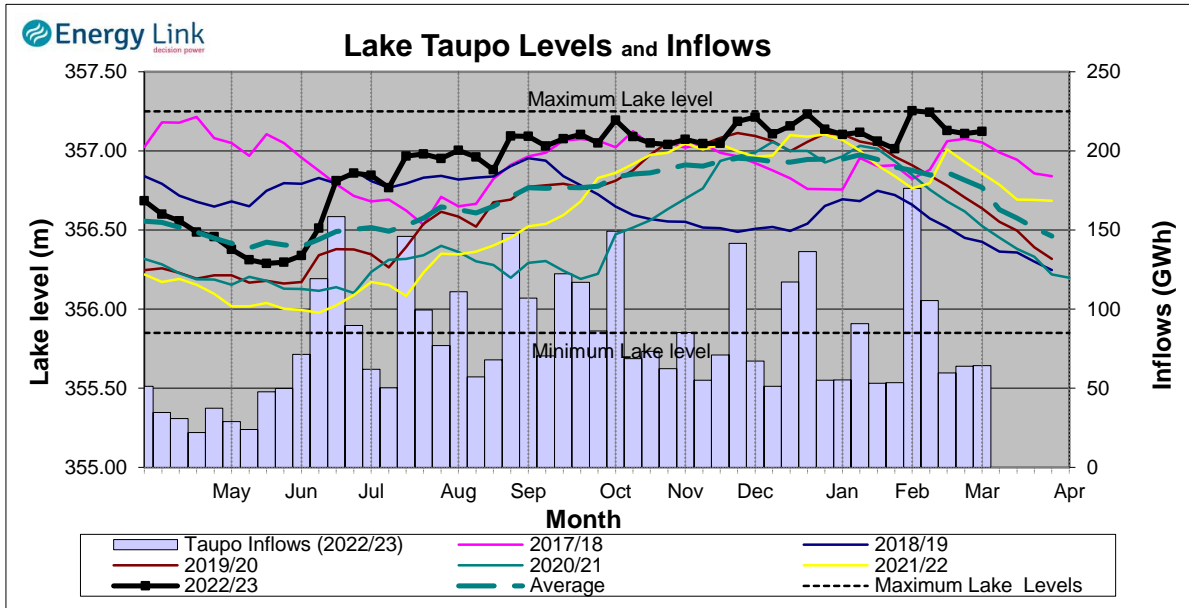
South Island Inflows - The past four weeks of S. I. inflows rank as the 41st driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 12th wettest on record.



Waikato System

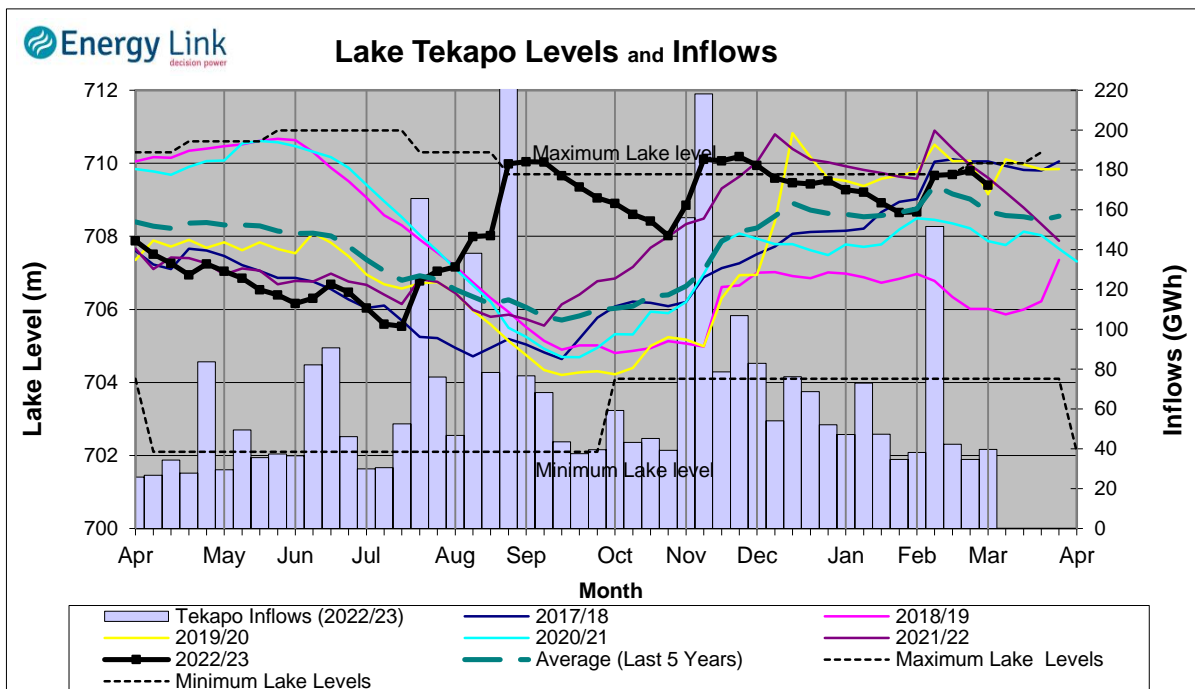


Lake Levels - Lake Taupo storage increased to 90.9% of nominal full at 519 GWh.

Inflows - Inflows remained steady at 64 GWh.

Generation - Average generation decreased 11.8% to 446.6 MW.

Tekapo



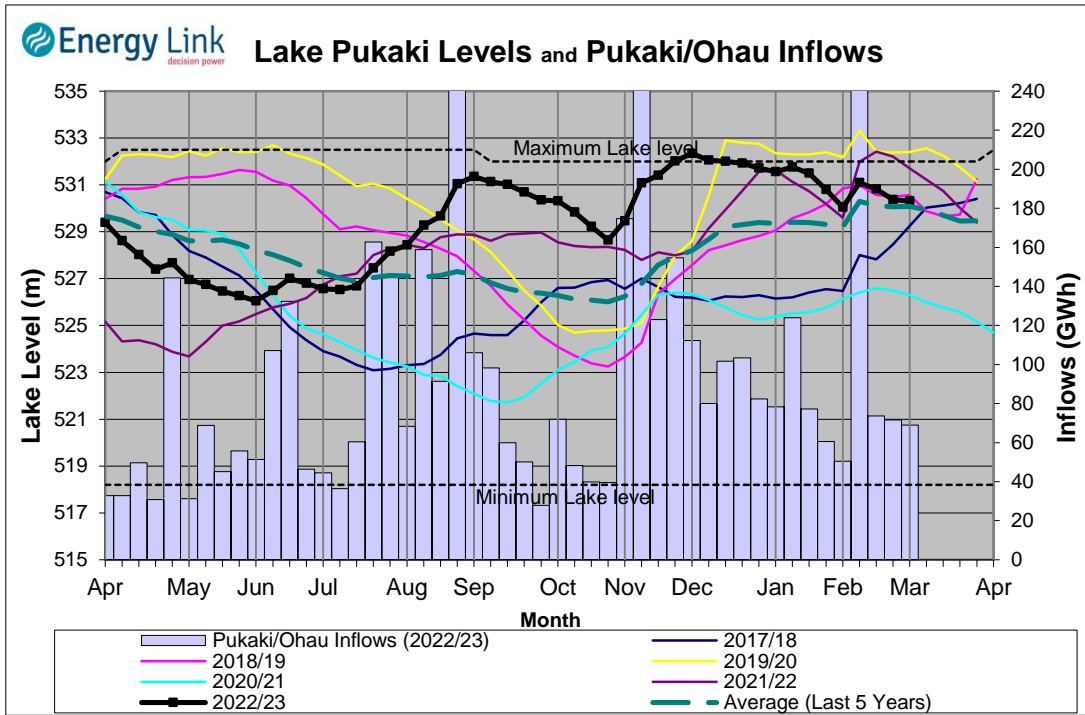
Lake Levels - Lake Tekapo ended the week 102% nominally full with storage falling to 735 GWh.

Inflows - Inflows into tekapo increased 14.9% to 40 GWh.

Generation - Average Tekapo generation increased 257.9% to 177.8 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 87% nominally full with storage falling to 1548 GW

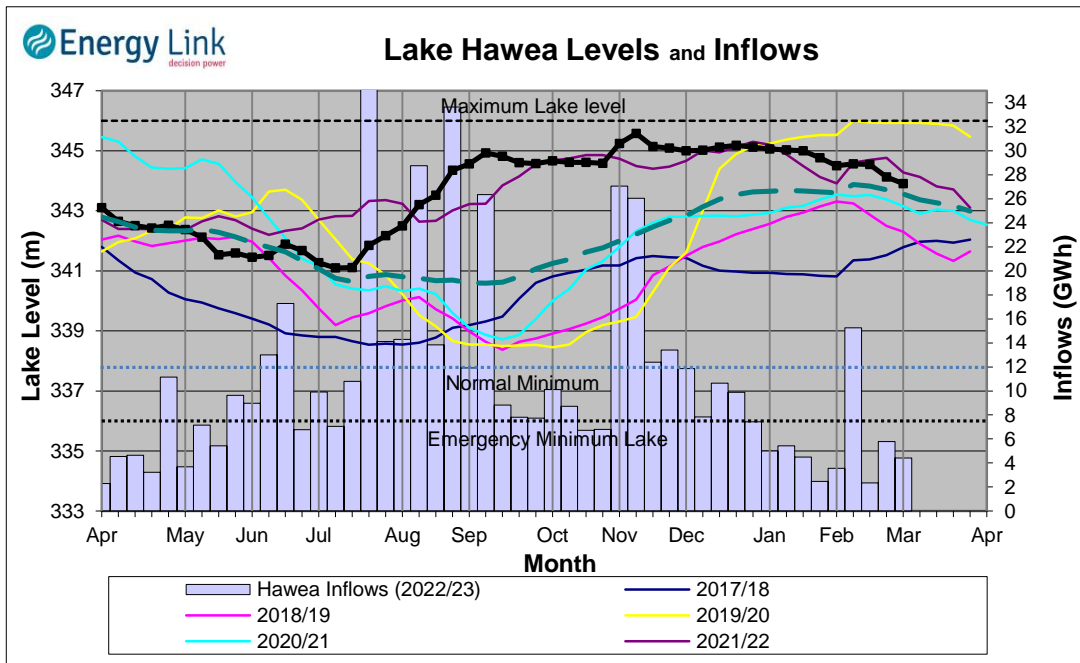
Inflows - Inflows into the Waitaki System decreased 3.7% to 69 GWh.

Generation - Average Waitaki generation decreased 9.8% to 854.1 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 17 cumecs while Waitaki River flows were lower than last week averaging 339.8 cumecs.

Clutha System



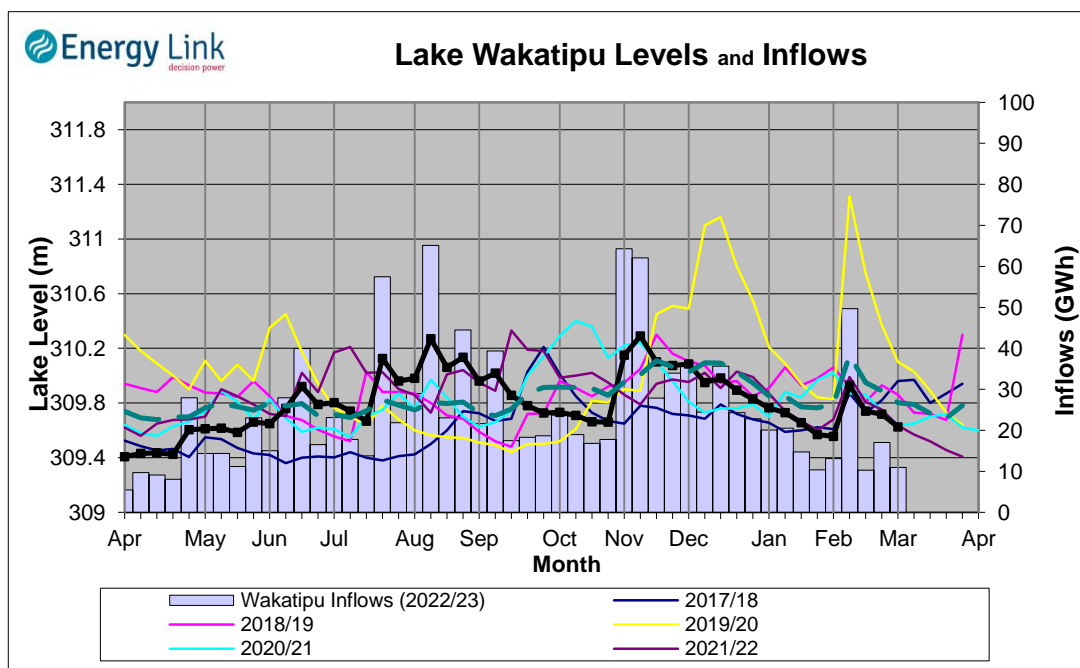
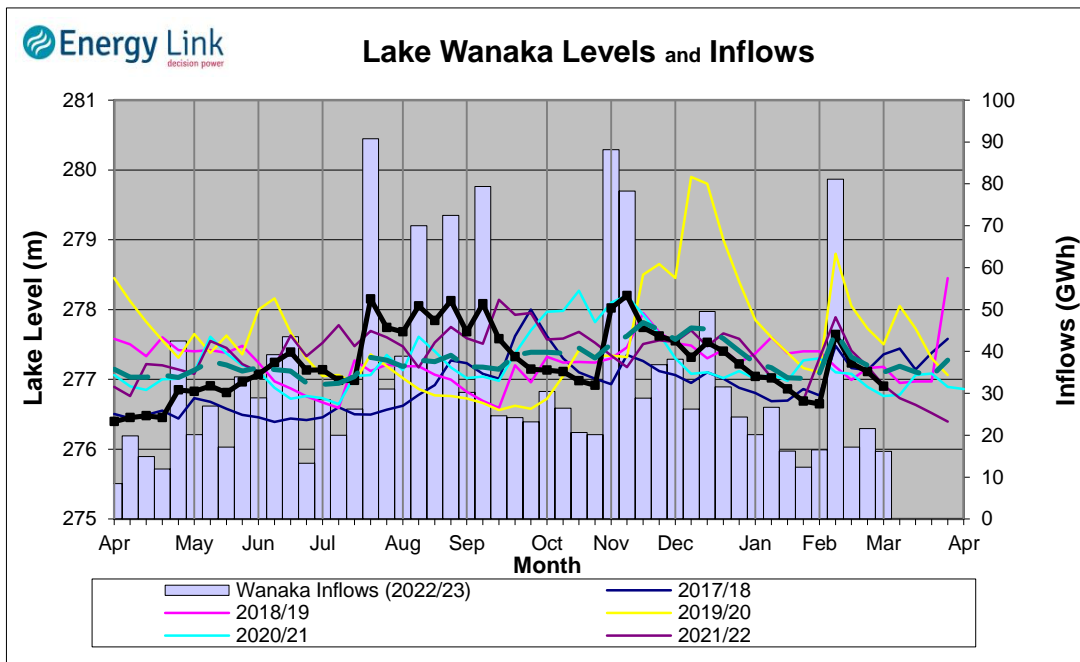
Lake Levels - Total storage for the Clutha System decreased 8.4% to 285 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 73.1%, 35.6% and 26.8% nominally full respectively.

Inflows - Total Inflows into the Clutha System 29.1% lower at 31 GWh.

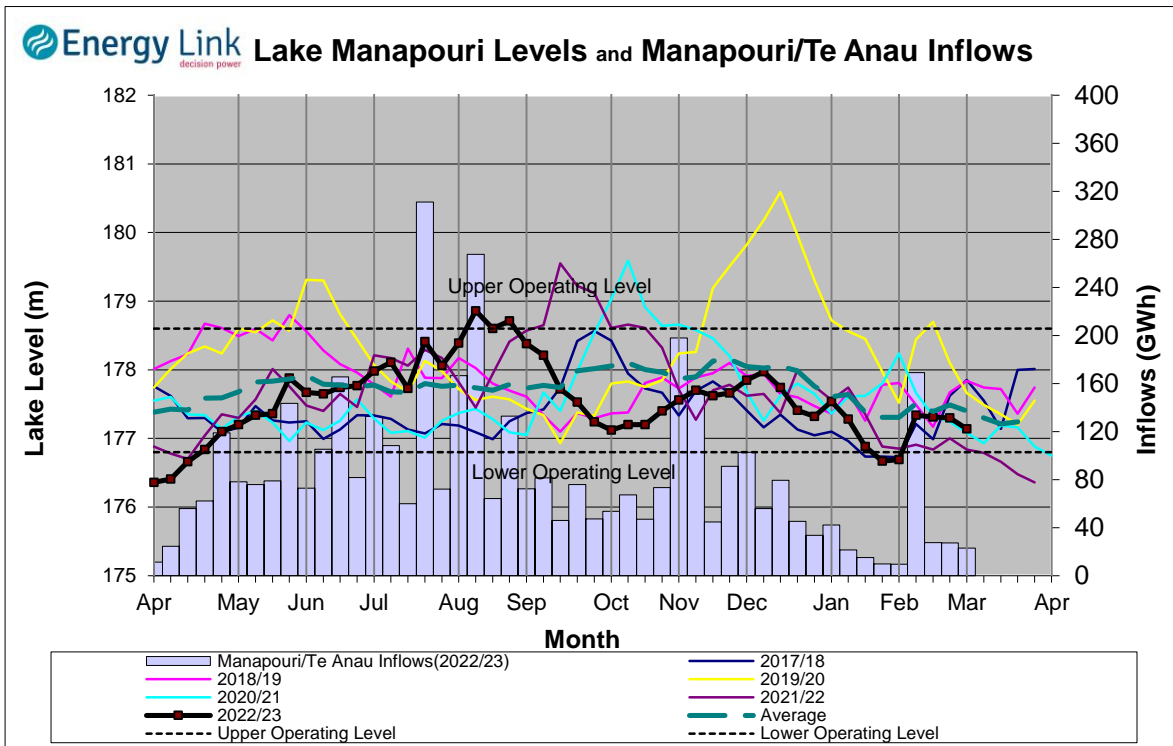
Generation - Average generation was 15.3% lower at 344 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 389.7 cumecs. This comprised of 84 cumecs from Lake Hawea, 170 cumecs from Lake Wanaka, 115 cumecs from Lake Wakatipu and 20 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 11.6% to 174 GWh with Lake Manapouri ending the week 46.4% nominally full and Lake Te Anau ending the week 35.9% nominally full.

Inflows - Total inflows into the Manapouri System decreased 15.3% to 23 GWh.

Generation - Average generation was 11.5% higher at 274 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 19.7 cumecs.

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

