



Thursday, 04 February 2021

Issue: 1242

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)	1862	407	2269	369	2638
Storage Change (GWh)	30	-92	-61	-38	-100

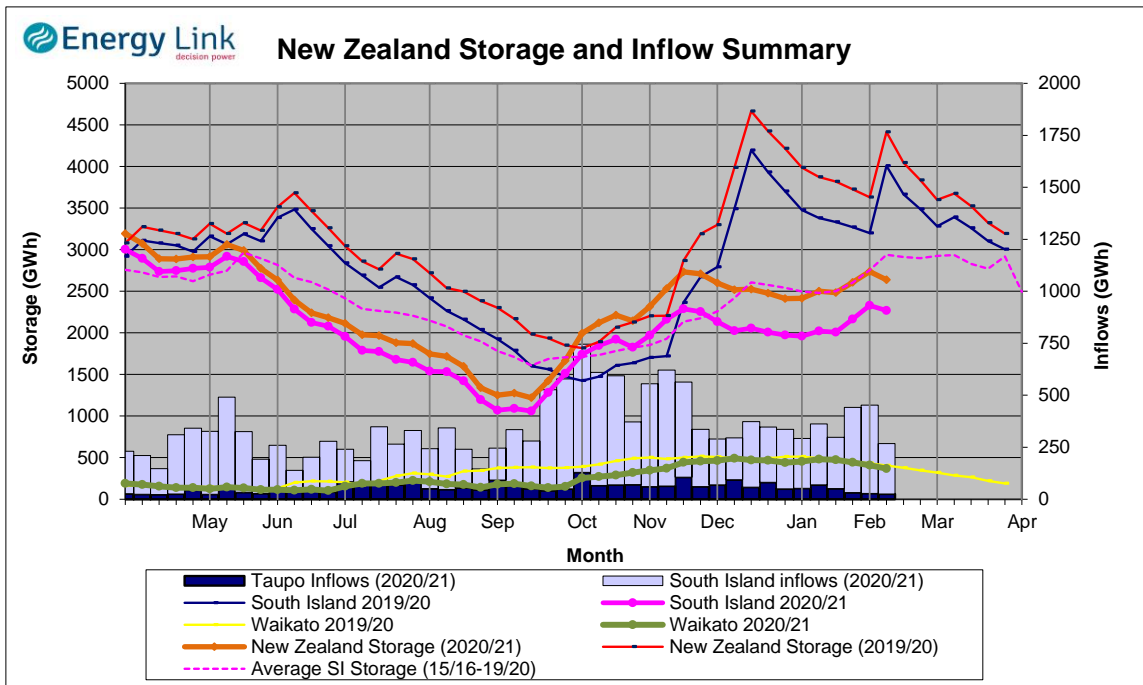
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2172	369	2541

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 99.8 GWh over the last week. South Island controlled storage increased 1.7% to 1862 GWh; South Island uncontrolled storage decreased 18.4% to 407 GWh; with Taupo storage decreasing 9.4% to 369 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	310	298	1661	369	2638
Last Week	380	321	1629	407	2738
% Change	-18.5%	-7.2%	2.0%	-9.4%	-3.6%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	52	45	146	25	268
Last Week	190	78	156	28	452
% Change	-72.4%	-42.8%	-6.5%	-11.7%	-40.7%

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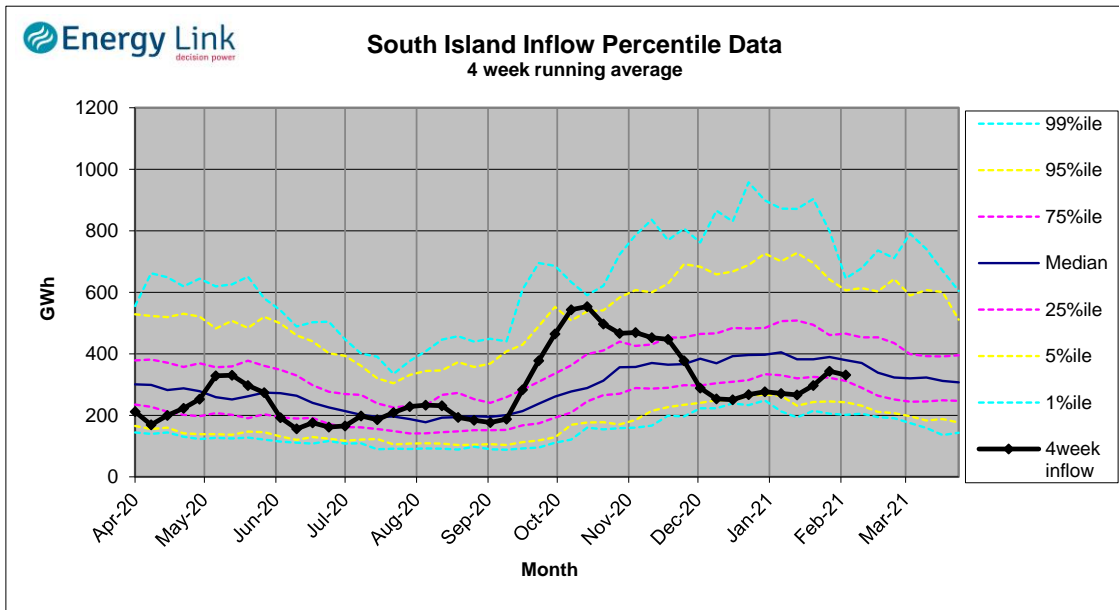
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumeecs)	Outflow Change
Manapouri	Manapouri	177.66	106	17	-27
	Te Anau	202.22	203		
Clutha	Wakatipu	309.87	47	186	-14
	Wanaka	277.10	51	203	
	Hawea	343.49	201	46	
Waitaki	Tekapo	708.46	633		-12
	Pukaki	526.41	1028		
Waikato	Taupo	356.76	369		33

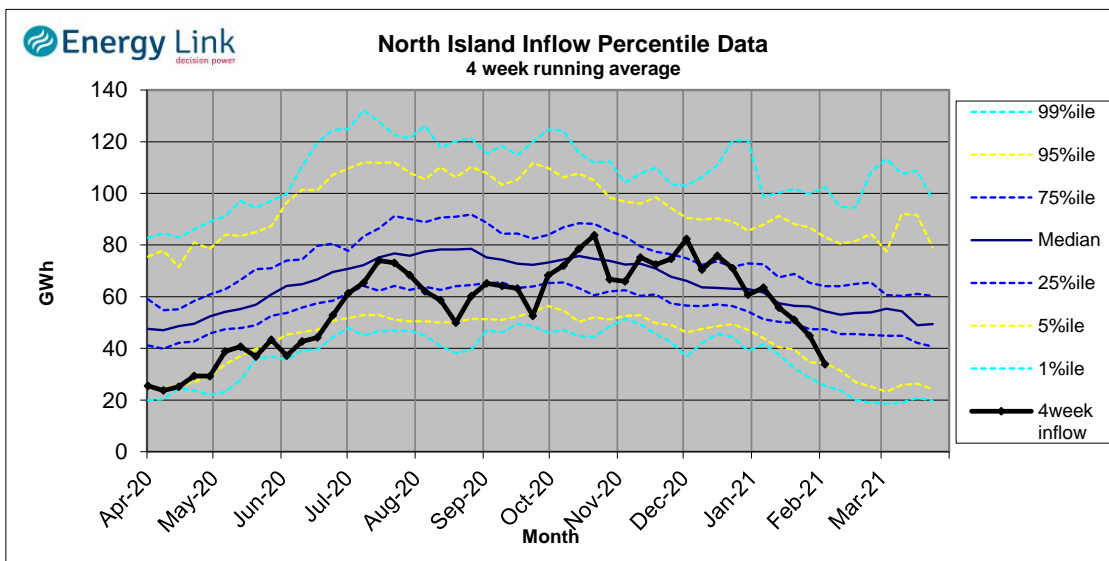
Inflow Summary

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.

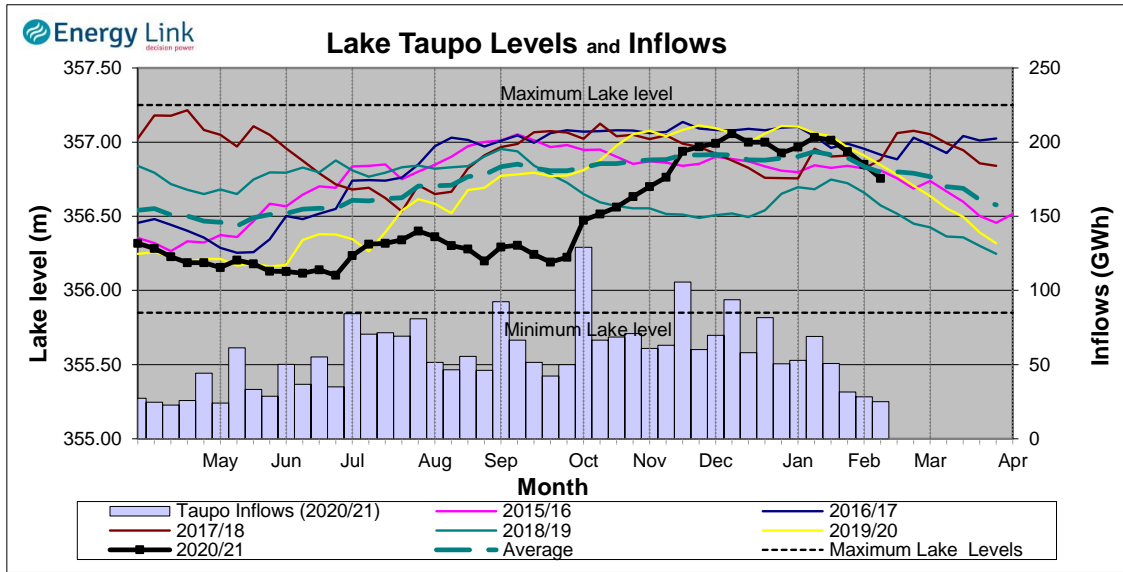
South Island Inflows - The past four weeks of S. I. inflows rank as the 29th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 5th driest on record.



Waikato System

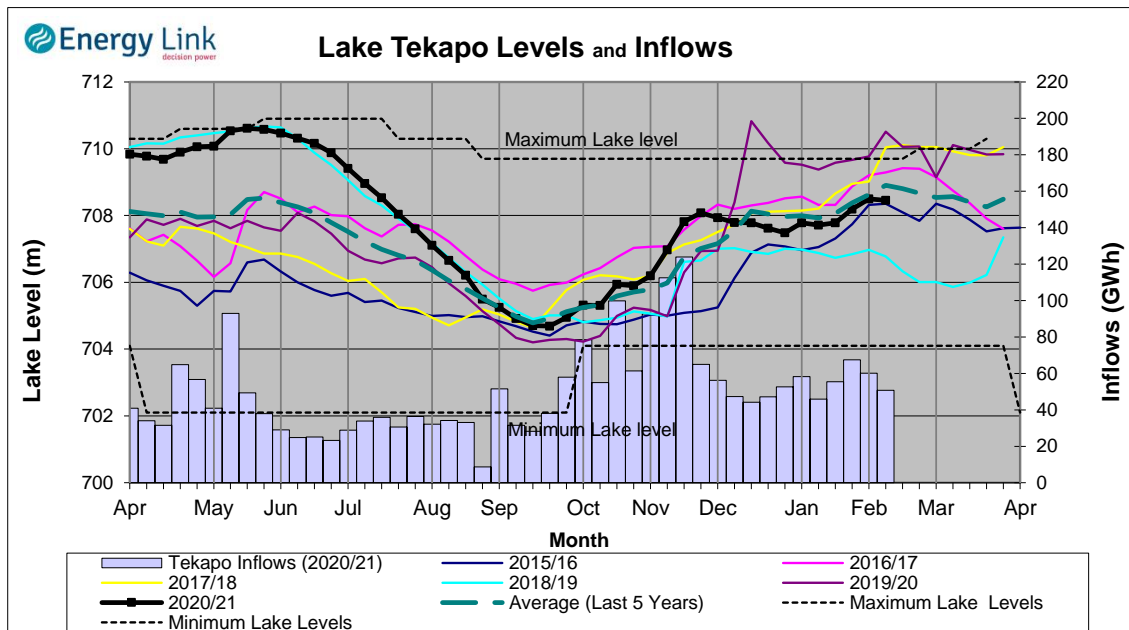


Lake Levels - Lake Taupo storage fell to 64.7% of nominal full at 369 GWh.

Inflows - Inflows decreased 11.7% to 25 GWh.

Generation - Average generation increased 0.4% to 406.3 MW.

Tekapo



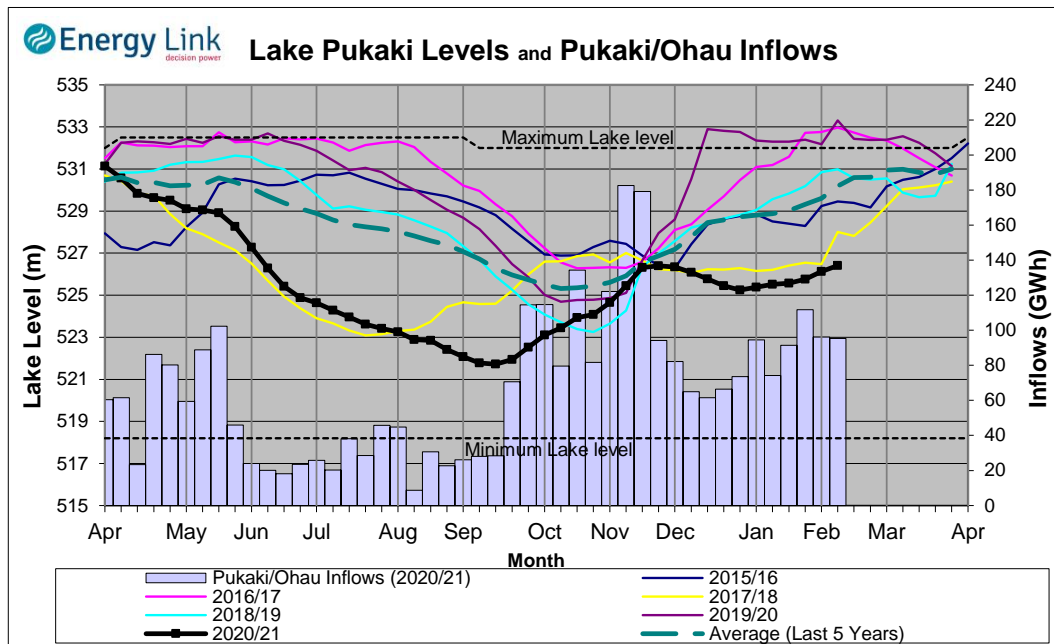
Lake Levels - Lake Tekapo ended the week 87% nominally full with storage falling to 633 GWh.

Inflows - Inflows into tekapo decreased 15.5% to 51 GWh.

Generation - Average Tekapo generation increased 134.5% to 116.2 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 58% nominally full with storage increasing to 1028 GV

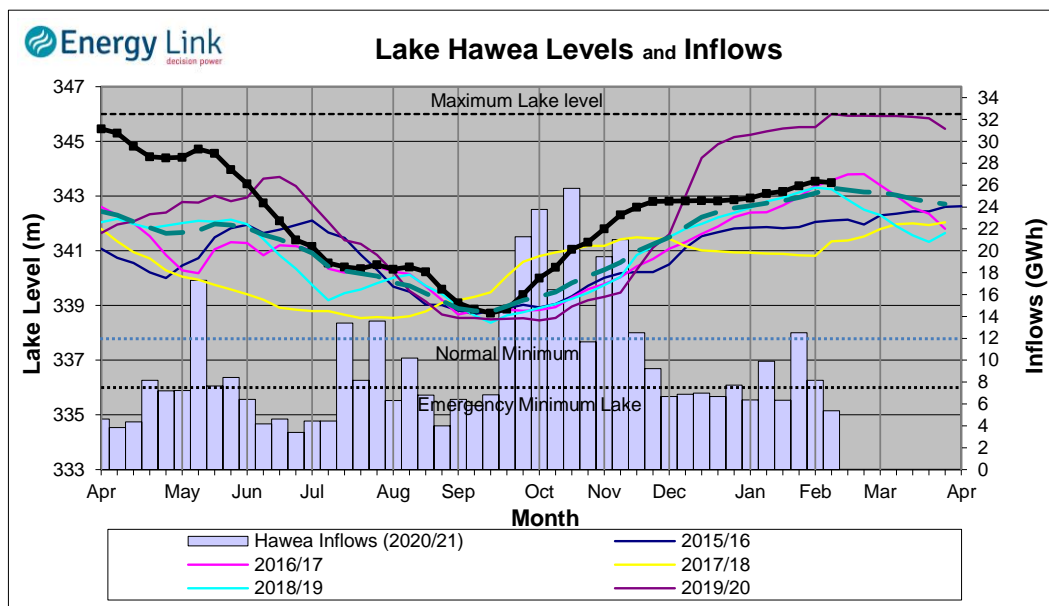
Inflows - Inflows into the Waitaki System decreased 0.9% to 95 GWh.

Generation - Average Waikati generation increased 17% to 613 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 18.9 cumecs while Waitaki River flows were lower than last week averaging 242.7 cumecs.

Clutha System



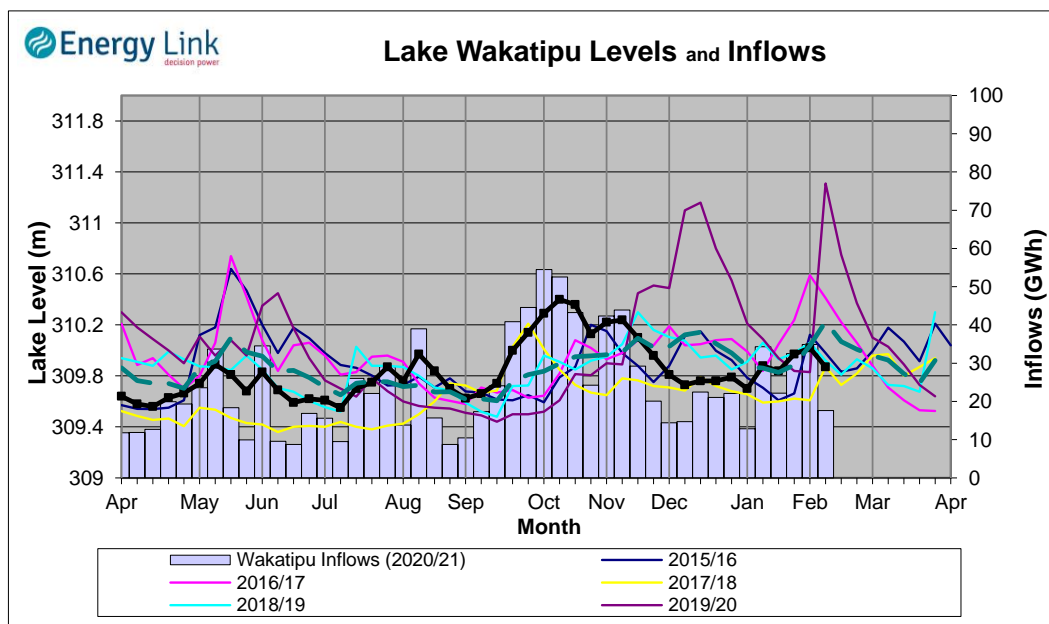
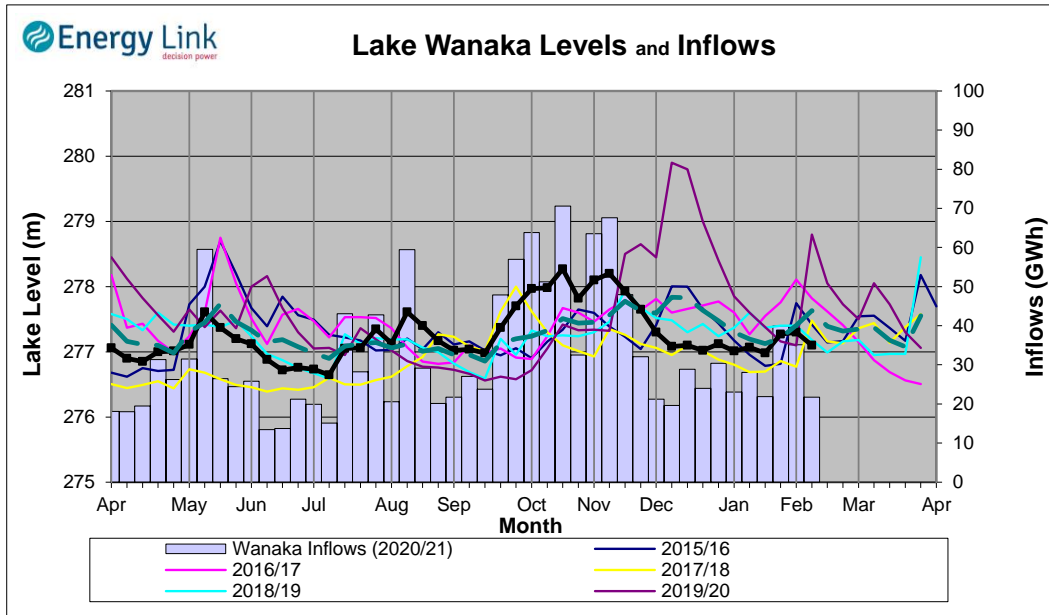
Lake Levels - Total storage for the Clutha System decreased 7.2% to 298 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 67.9%, 44.3% and 44.3% nominally full respectively.

Inflows - Total Inflows into the Clutha System 42.8% lower at 45 GWh.

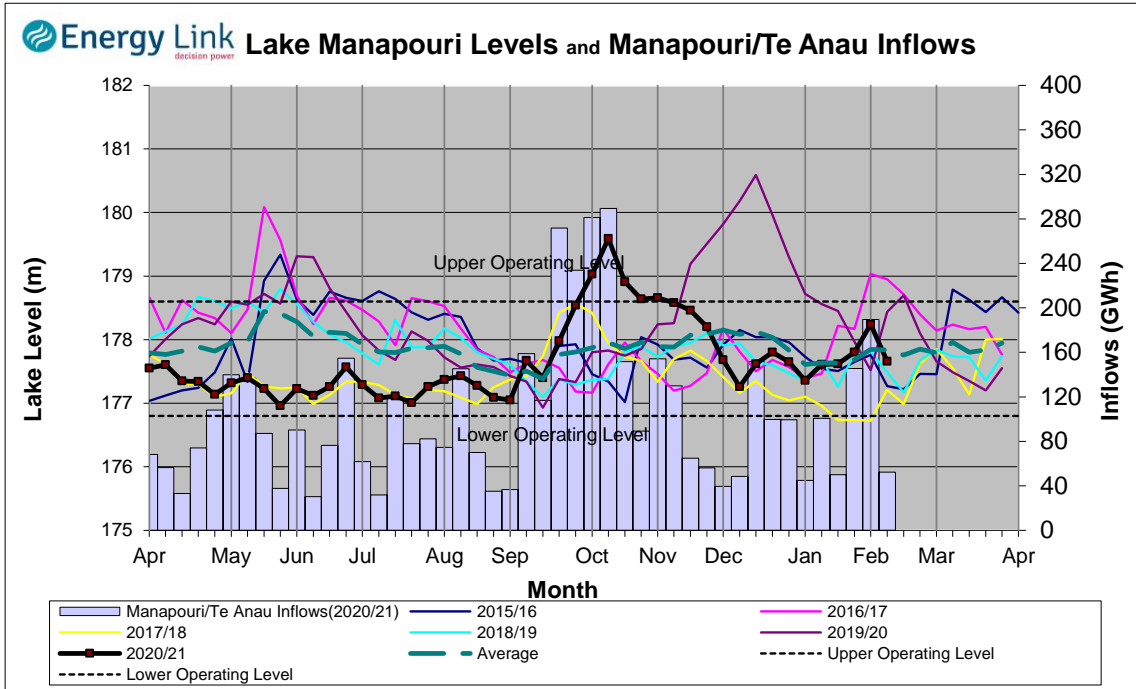
Generation - Average generation was 10.5% lower at 433 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 479.9 cumecs. This comprised of 46 cumecs from Lake Hawea, 203 cumecs from Lake Wanaka, 186 cumecs from Lake Wakatipu and 44 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 18.5% to 310 GWh with Lake Manapouri ending the week 65.4% nominally full and Lake Te Anau ending the week 73.9% nominally full.

Inflows - Total inflows into the Manapouri System decreased 72.4% to 52 GWh.

Generation - Average generation was 13.6% higher at 732 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 17.4 cumecs.

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

