



Thursday, 12 November 2020

Issue: 1230

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)	1749	541	2290	443	2733
Storage Change (GWh)	212	-84	129	71	200

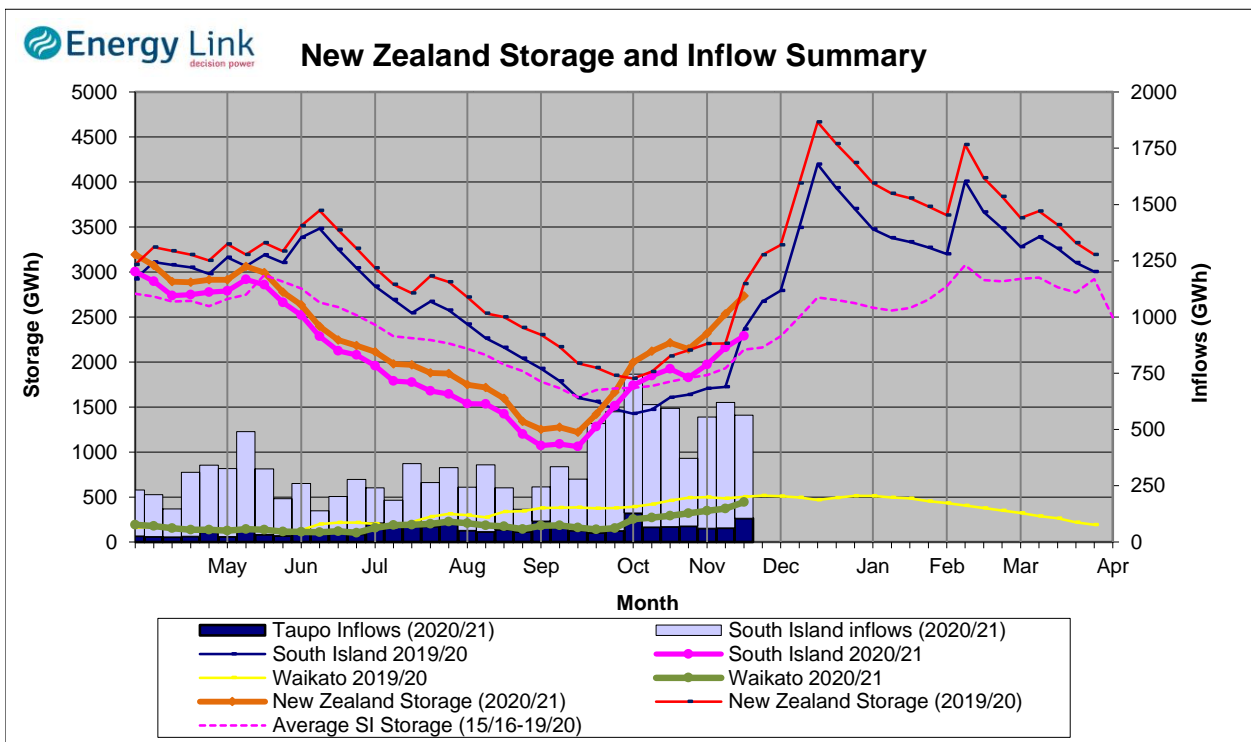
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2134	443	2577

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 199.8 GWh over the last week. South Island controlled storage increased 13.8% to 1749 GWh; South Island uncontrolled storage decreased 13.4% to 541 GWh; with Taupo storage increasing 19.1% to 443 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	384	324	1582	443	2733
Last Week	444	337	1380	372	2533
% Change	-13.4%	-4.0%	14.6%	19.1%	7.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	65	90	303	106	563
Last Week	130	133	295	63	621
% Change	-50.1%	-32.3%	2.8%	67.6%	-9.2%

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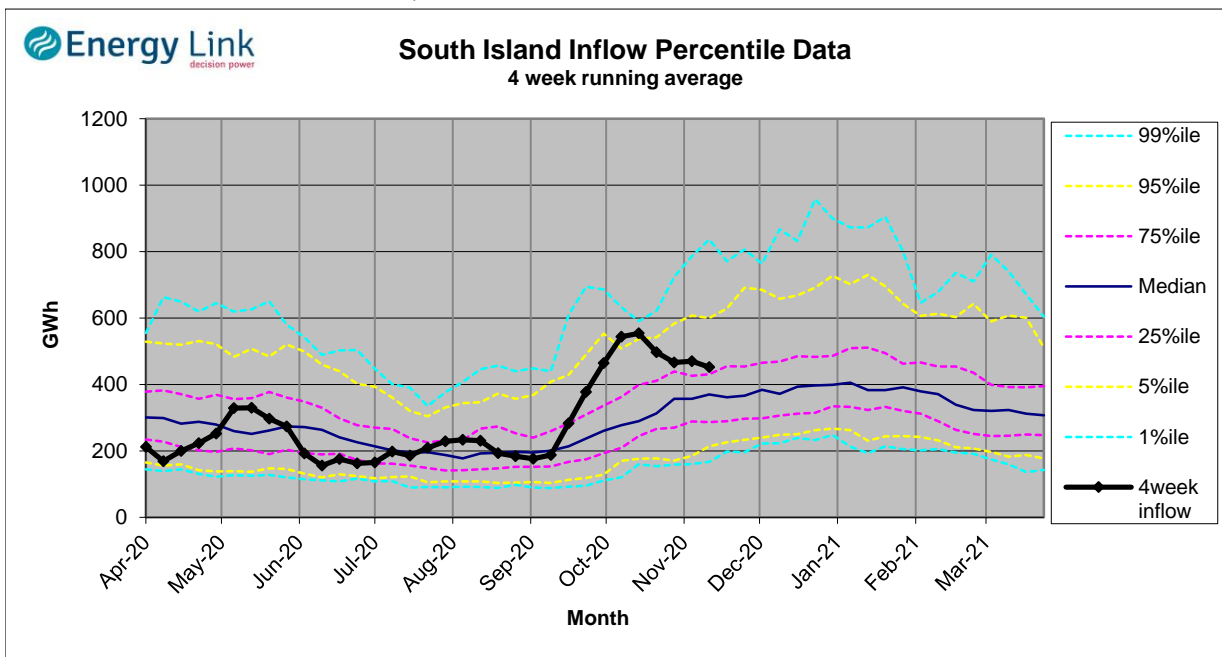
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	178.46	154	20	-87
	Te Anau	202.40	230		
Clutha	Wakatipu	310.10	64	255	-16
	Wanaka	277.93	92	393	
	Hawea	342.60	167	13	
Waitaki	Tekapo	707.82	565		
	Pukaki	526.32	1016		
Waikato	Taupo	356.94	443		2

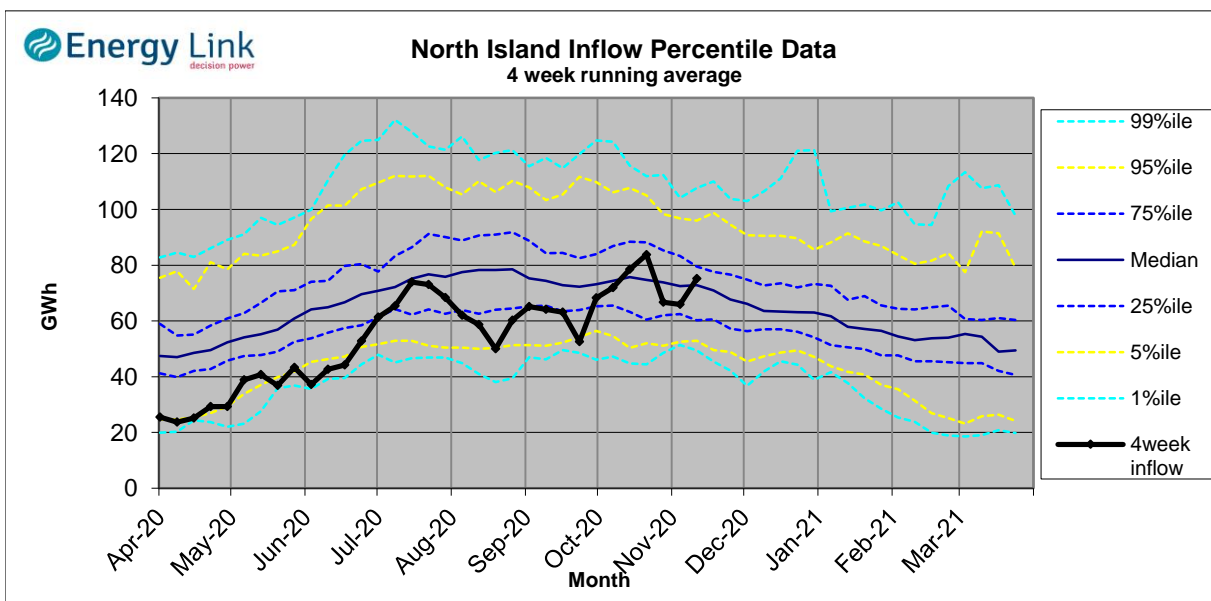
Inflow Summary

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.

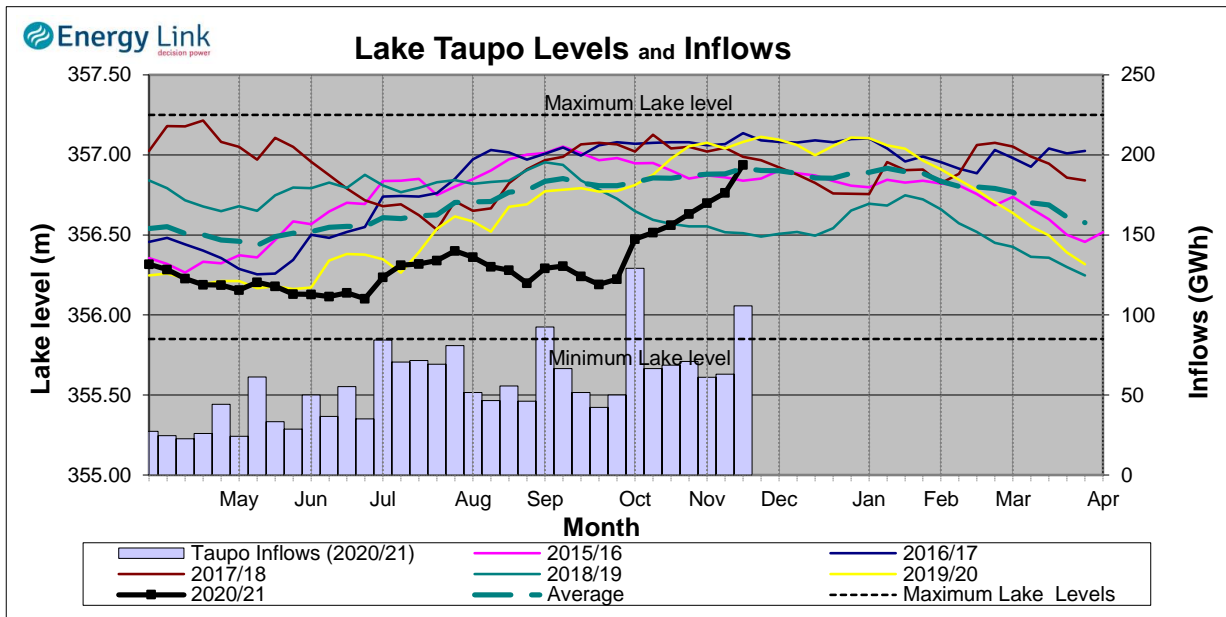
South Island Inflows - The past four weeks of S. I. inflows rank as the 18th wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 35th wettest on record.



Waikato System

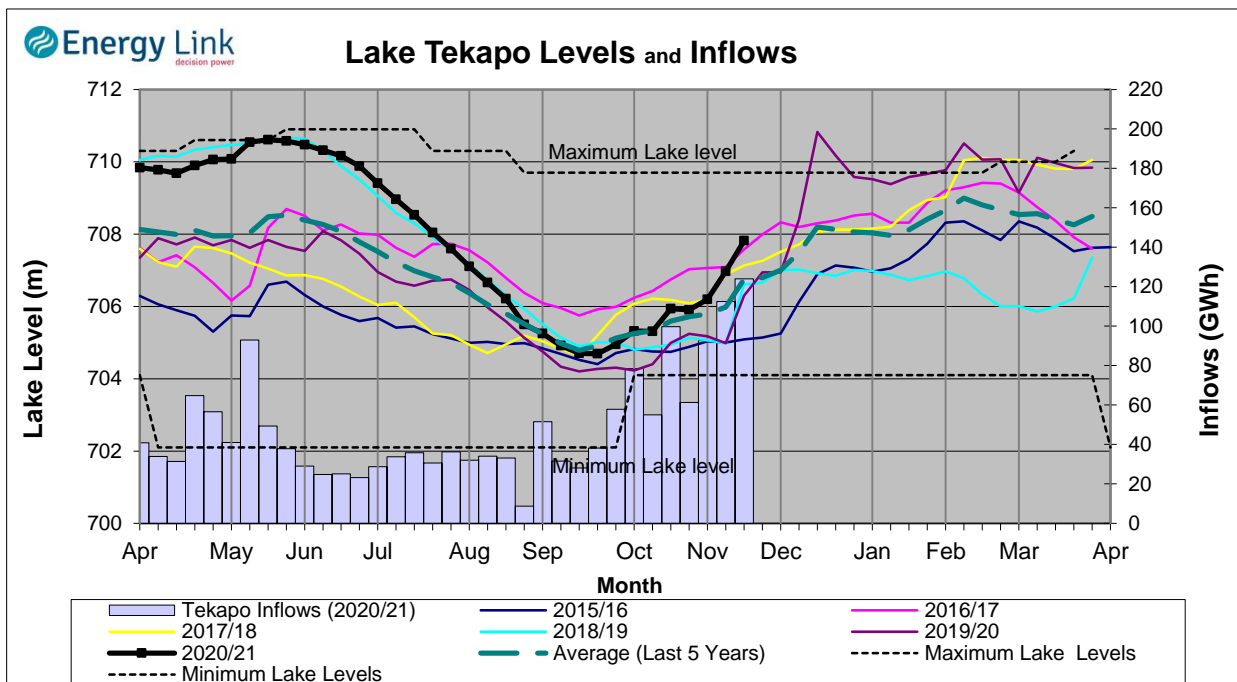


Lake Levels - Lake Taupo storage increased to 77.7% of nominal full at 443 GWh.

Inflows - Inflows increased 67.6% to 106 GWh.

Generation - Average generation increased 15.3% to 321.4 MW.

Tekapo



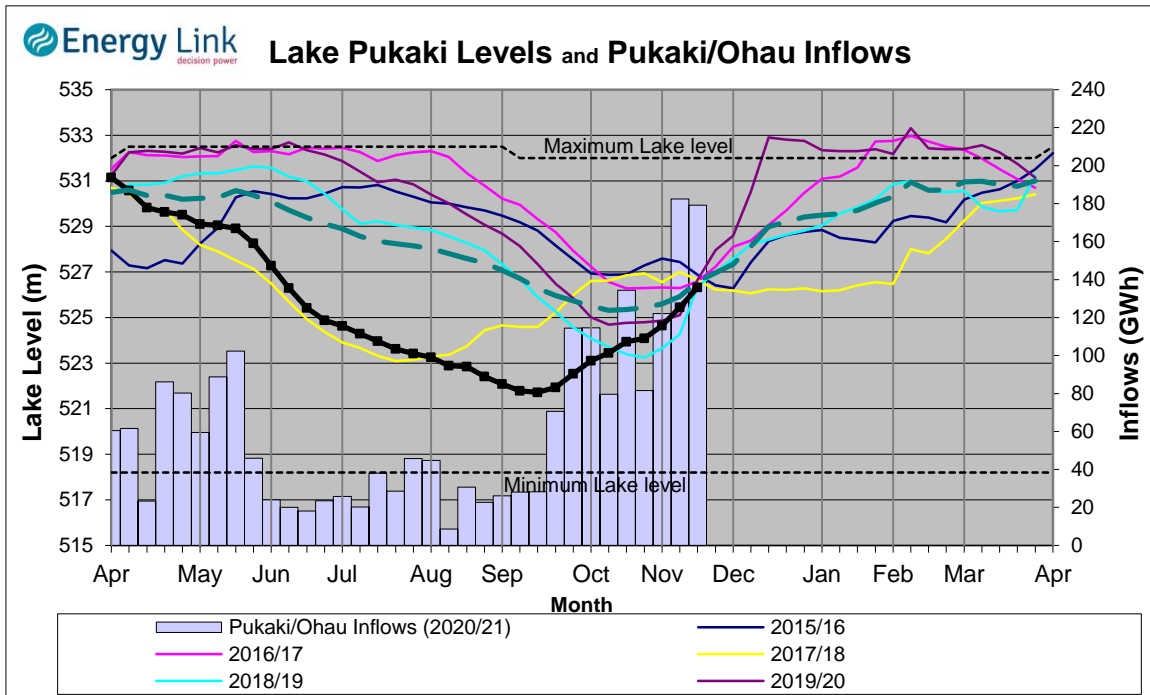
Lake Levels - Lake Tekapo ended the week 78% nominally full with storage increasing to 565 GWh.

Inflows - Inflows into tekapo increased 10.2% to 124 GWh.

Generation - Average Tekapo generation increased 4.9% to 63 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 57% nominally full with storage increasing to 1016 GW

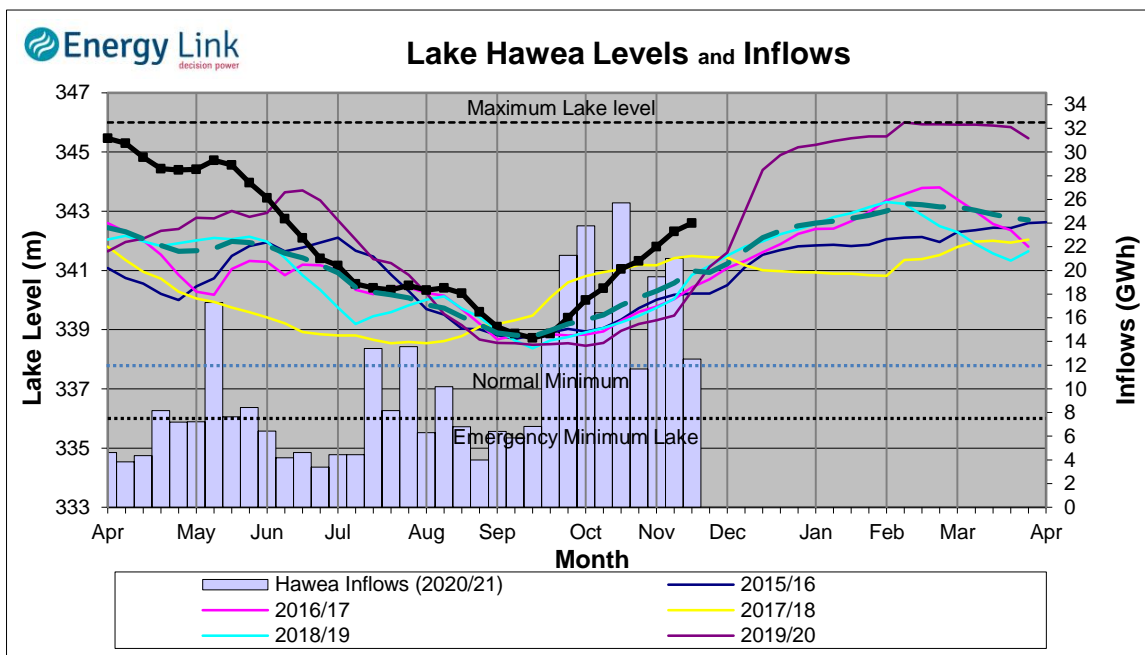
Inflows - Inflows into the Waitaki System decreased 1.8% to 179 GWh.

Generation - Average Waikati generation decreased 6.8% to 675.6 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 32.6 cumecs while Waitaki River flows were lower than last week averaging 310.4 cumecs.

Clutha System



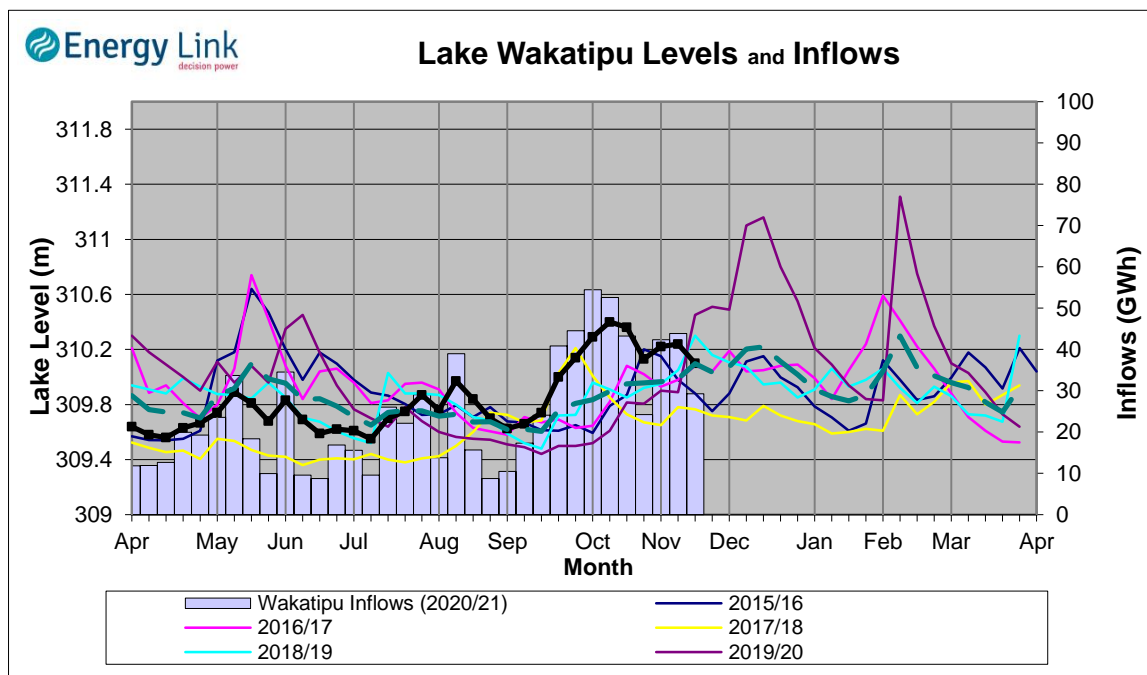
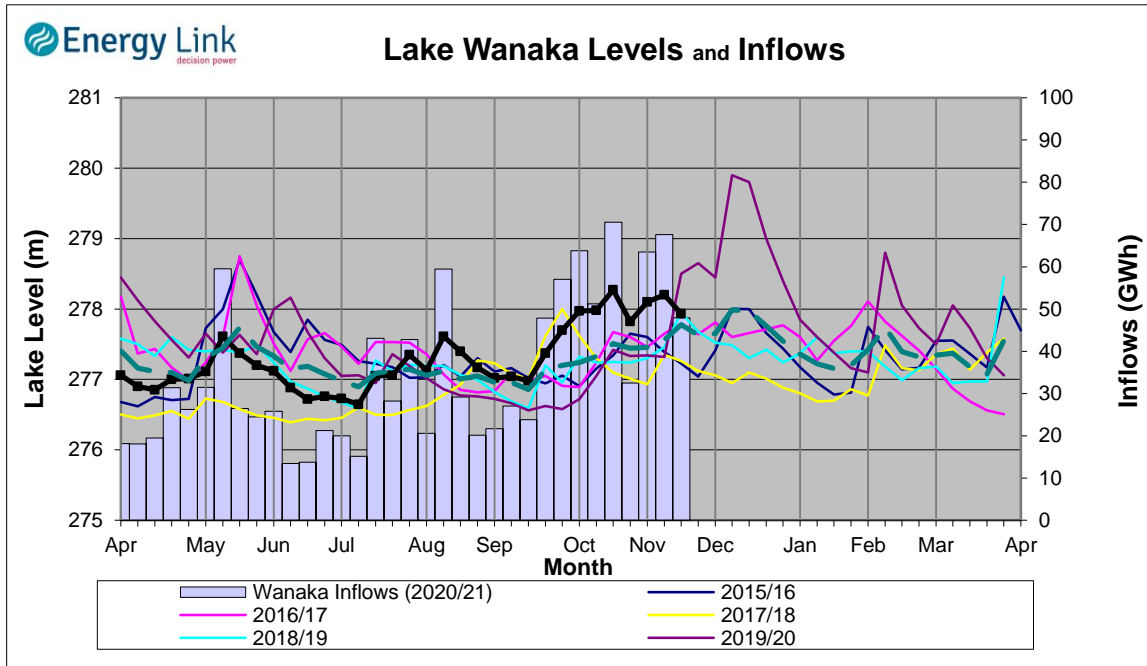
Lake Levels - Total storage for the Clutha System decreased 4% to 324 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 56.7%, 80.3% and 60.7% nominally full respectively.

Inflows - Total Inflows into the Clutha System 32.3% lower at 90 GWh.

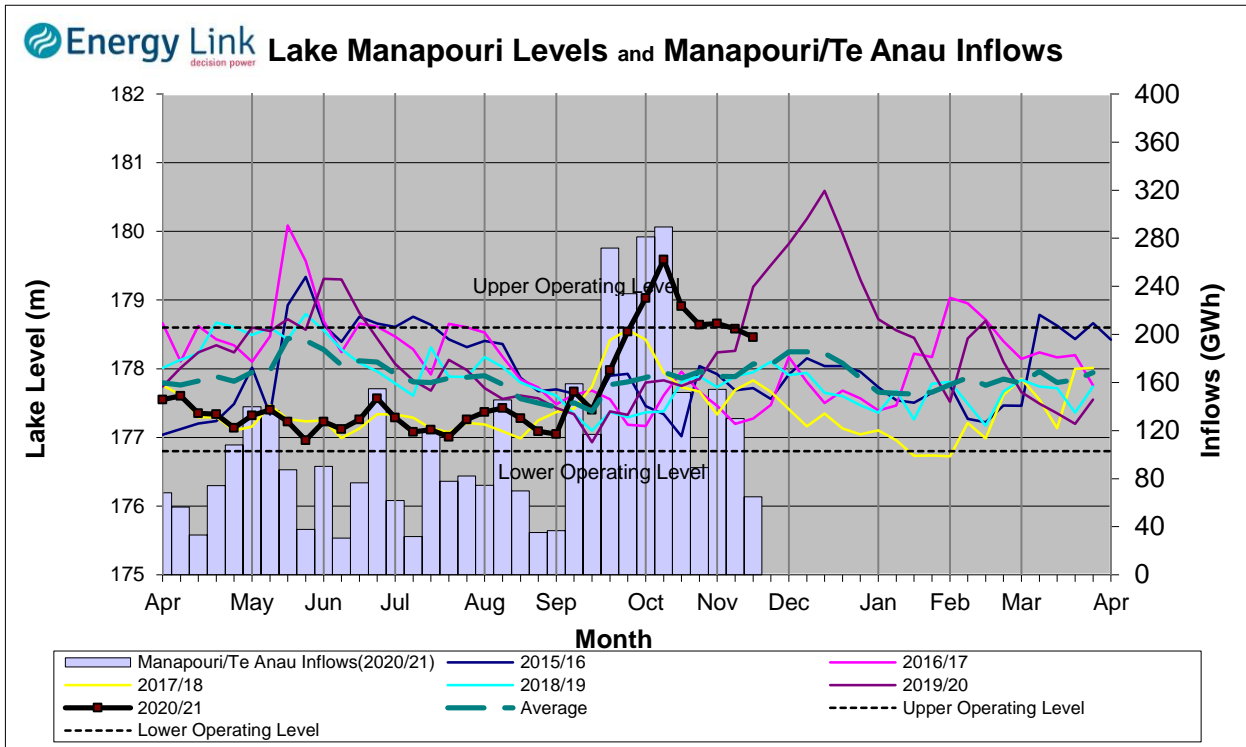
Generation - Average generation was 11.1% lower at 514 MW.

Hydro Spill - Estimate Spill is 162.5 cumecs.

River Flows - Total outflows from the lakes and Shotover River fell to 726.8 cumecs. This comprised of 13 cumecs from Lake Hawea, 393 cumecs from Lake Wanaka, 255 cumecs from Lake Wakatipu and 65 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 13.4% to 384 GWh with Lake Manapouri ending the week 94.8% nominally full and Lake Te Anau ending the week 83.7% nominally full.

Inflows - Total inflows into the Manapouri System decreased 50.1% to 65 GWh.

Generation - Average generation was remained steady at 734 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 20.4 cumecs.

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

